

April 15, 2017

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS		
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u> )		
Charles D. Blanke, MD CHAIR	RE:	<b><u>S1400</u></b> , "Phase II/III Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.		
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM		
Portland, OR 97239		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D.		
503-494-5586 503-346-8038 FAX		Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>		
OPERATIONS OFFICE		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( ) Expedited review allowed</li> <li>( √ ) No review required</li> </ul>		
Suite 250		Status Change		
San Antonio, TX 78229		<ul> <li>() IRB Review only</li> <li>() Activation</li> </ul>		
210-614-8808		() Closure		
210-614-0006 FAX		() Reactivation		
STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> </ul>		
206-652-2267		() Specimen Submission changes		
206-342-1616 FAX		<ul> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>		
1100 Fairview Ave North		() Other.		
M3-C102				
PO Box 19024		MEMORANDUM		
Seattle, WA 98109	Webinar D	se of this memorandum is to notify participating sites that the <u><b>S1400</b></u> Pathology ocuments, Sample Documents for Site Use, New Investigator's Brochures, Site		
206-667-4623	Coordinato	rs Committee Application are now available.		
206-667-4408 FAX	Pa	<ul> <li><u>S1400</u> Pathology Webinar Documents are now available on the <u>S1400</u> Abstract ge under <u>S1400</u> Resources on the SWOG website (<u>http://swog.org</u>).</li> <li>e documents include:</li> <li>Pathology Slide Deck</li> <li>Dethology Webinar Decording</li> </ul>		
swog.org		Pathology Webinar Recording		

Questions and Answers

#### SWOG Authorized Document

- The Sample Documents for Site use are now available on the <u>S1400</u> Abstract Page under <u>S1400</u> Resources on the SWOG website (<u>https://swog.org/Visitors/S1400/S1400SampleDocs.asp</u>).
- 3. New Investigator's Brochures are available for the following investigational agents:

Sub-Study: <u><b>S1400C</b></u>	Agent: Palbociclib Palbociclib_Mar2017 Palbociclib_Mar2017_with Summary of Changes
Sub-Study: <u><b>S1400I</b></u>	Agent: Ipilimumab ipilimumab_9Mar2017_Ver 20 ipilimumab_15Mar2017_Ver 20 Erratum 01

SWOG's standard procedures will be followed in updating the drug information sections based on the most recent Investigator's Brochure versions. Sites should seek updated Investigator's Brochures as required by the site's IRB of record.

The Investigator's Brochures are available through the CTSU website. Complete the CTSU Request for Clinical Brochure form located under LPO Documents – Pharmacy Forms. Complete and return to <a href="mailto:ctsucontact@westat.com">ctsucontact@westat.com</a>.

4. The Site Coordinators Committee is seeking new members. For more information about the committee contact: <u>LungmapSCC@crab.org</u>

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE





April 15, 2017

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u> )
Charles D. Blanke, MD CHAIR	RE:	<b><u>S1400</u></b> , "Phase II/III Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM
Portland, OR 97239		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D.
503-494-5586 503-346-8038 FAX		Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>
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Suite 250 San Antonio, TX 78229		Status Change () IRB Review only () Activation
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STATISTICAL CENTER		Protocol changes () Eligibility changes
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Suite 1900		() Patient notification not required
Seattle, WA 98101		<ul> <li>( ) Patient notification required</li> <li>( ) Scientific / Statistical Consideration changes</li> </ul>
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206-342-1616 FAX		() Editorial / Administrative changes
1100 Fairview Ave North M3-C102	. <u> </u>	() Other:
PO Box 19024		MEMORANDUM
Seattle, WA 98109		se of this memorandum is to notify the CIRB and participating sites of a correction <b><u>00</u></b> Treatment Consent Form.
206-667-4623	1. In t	the <b><u>S1400I</u></b> Treatment Consent Form, Page 110, the asterisk footnote underneath
206-667-4408 FAX	the	RARE, AND SERIOUS category of the Ipilimumab condensed drug table is no ger applicable.
swog.org		This is applicable for patients who have undergone a stem cell transplant. (Added 3/3/16)



This will be removed in a subsequent revision. In the meantime, sites may update their respective Informed Consents.

Patients need not be informed of the changes unless required by the local IRB.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE





April 15, 2017 TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS FROM: SWOG Operations Office RE: IND Safety Reports for Ipilimumab (BMS-734016) **MEMORANDUM IRB Review Requirements** Full board review required Expedited review allowed  $\sqrt{}$ No review required () **Status Change IRB** Review only () Activation ) Closure ) () Reactivation **Protocol changes** Eligibility changes ) Treatment / Dose Modification / Study Calendar changes () Informed Consent changes Patient notification not required () Patient notification required () Scientific / Statistical Consideration changes ) Specimen Submission changes ) Data Submission / Forms changes ) Editorial / Administrative changes Other:

#### **MEMORANDUM**

The following new safety report has been posted regarding adverse event that occurred in association with the drug ipilimumab. Please access these reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

> S1400I Lung S1404 Melanoma **S1609** Early Therapeutic

#### Reports:

Feb. 28, 2017 Mfr Rpt #BMS2017010889 Mar. 01, 2017 Mfr Rpt #BMS2016085259 FU Mar. 02, 2017 Mfr Rpt #BMS2016085054 FU AE-2921421 Mar. 24, 2017 Mar. 28, 2017 Mfr Rpt #BMS2017020499 FU Mfr Rpt #BMS2017021208 FU Apr. 03, 2017

**GROUP CHAIR'S OFFICE** Charles D. Blanke, MD CHAIR

#### **OPERATIONS OFFICE**

4201 Medical Dr Suite 250 San Antonio, TX 78229

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Suite 1900

206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

#### swog.org

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by



Portland, OR 97239 503-346-8038 FAX

your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





April 15, 2017 TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS FROM: SWOG Operations Office RE: IND Safety Reports for Nivolumab (BMS-936558) **MEMORANDUM IRB Review Requirements** Full board review required ) Expedited review allowed (√) No review required () Status Change **IRB** Review only ( ) Activation ) Closure ) Reactivation () Protocol changes Eligibility changes Treatment / Dose Modification / Study Calendar changes () Informed Consent changes Patient notification not required () Patient notification required () Scientific / Statistical Consideration changes () () Specimen Submission changes Data Submission / Forms changes ) Editorial / Administrative changes ) Other:

#### **MEMORANDUM**

The following new safety report has been posted regarding adverse events that occurred in association with the drug nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

S1400I Lung S1609 Early Therapeutics Reports:

Feb. 28, 2017 Mfr Rpt #BMS2017010889 Mar. 01, 2017 Mfr Rpt #BMS2016085259 FU Mar. 02, 2017 Mfr Rpt #BMS2016085054 FU Mar. 03, 2017 Mfr Rpt #BMS2017006152 Mar. 03, 2017 Mfr Rpt #BMS2017014298 Mar. 21, 2017 Mfr Rpt #BMS2016101248 FU Mar. 23. 2017 Mfr Rpt #BMS2017019724 Mar. 28, 2017 Mfr Rpt #BMS2017020499 FU Apr. 03, 2017 Mfr Rpt #BMS2017021208 FU



OPERATIONS OFFICE			
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Suite	250		

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**GROUP CHAIR'S OFFICE** 

Charles D. Blanke, MD

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CHAIR

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206-652-2267 206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





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	Distributio E-mailed Version D	Date:	April 15, 2017 April 11, 2017 March 14, 2017
GROUP CHAIR'S OFFICE	TO:	ALL NAT	IONAL CLINICAL TRIALS NETWORK (NCTN) PARTICIPANTS
Charles D. Blanke, MD	FROM:	Crystal M	iwa, Protocol Coordinator (E-mail: cmiwa@swog.org)
CHAIR 3181 SW Sam Jackson Pk F MC: L586	RE:	Lung Car	A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell neer ". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. .W. Schwartz, and D.R. Gandara.
Portland, OR 97239		REVISIO	DN #8
503-494-5586 503-346-8038 FAX		Phone n	nair: Vassiliki A. Papadimitrakopoulou, M.D. umber: 713/792-6363 /papadim@mdanderson.org
OPERATIONS OFFICE 4201 Medical Dr Suite 250		() F (√) E	iew Requirements full board review required xpedited review allowed lo review required
San Antonio, TX 78229 210-614-8808 210-614-0006 FAX		() A () C	Change RB Review only citvation closure leactivation
STATISTICAL CENTER		Protoco	I changes
1730 Minor Ave Suite 1900 Seattle, WA 98101		() E () T () Ir	ligibility changes reatment / Dose Modification / Study Calendar changes nformed Consent changes ) Patient notification not required
206-652-2267 206-342-1616 FAX		(1	Patient notification required: Patients currently on <u>S1400G</u> may continue on study provided they are informed of the new and/or modified risk information. Please see details below.
1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109		() S () D () E	cientific / Statistical Consideration changes pecimen Submission changes vata Submission / Forms changes ditorial / Administrative changes other:
206-667-4623 206-667-4408 FAX	( <u>S1400G</u> incorpora	) until the re ted into the	ers require immediate suspension of accrual to the active sub-study evision incorporating the changes outlined in the Action Letter have been e protocol/consent and approved by both CTEP and the IRB of record. e approved this revision (Revision #8) for this study.

Sites whose IRBs of record have already reviewed and approved Revision #8 (including sites utilizing CIRB as the IRB of record) DO NOT need to suspend local accrual.

Any site not utilizing CIRB and whose IRB of record has not approved Revision #8 MUST suspend local accrual to sub-study S1400G until the IRB of record has approved Revision #8.



### NOTE: Patients who have already signed an <u>S1400G</u> consent form <u>may</u> be registered.

## REVISION #8

This revision has been prepared in response to the Request for Rapid Amendment (RRA) received on March 13, 2017 from Dr. Richard Piekarz (piekarzr@mail.nih.gov), Dr. James Zwiebel (zwiebelj@ctep.nci.nih.gov), and Dr. Meg Mooney (mooneym@ctep.nci.nih.gov). The associate Action Letter is attached.

The above-referenced study has been updated as follows:

- 1. The Version Date of the protocol and Model Consent Forms has been updated.
- 2. Table of Contents: The page numbers have been updated.

#### <u>S1400G</u>

1. <u>Section 3.1c.1</u>, Talazoparib (BMN 673) (NSC 771561) (IND-119672): The talazoparib adverse effects section has been replaced with Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.1, December 29, 2016. The section has been updated as follows:

#### Added New Risk:

- Less Likely: Dyspepsia; Epistaxis; Pain
- Rare but Serious: Typhlitis
- <u>Also Reported on Talazoparib Trials But With Insufficient Evidence for Attribution:</u> Abdominal distension; Dry skin; Dysgeusia; Hepatic failure; Insomnia; Neck pain; Noncardiac chest pain; Respiratory, thoracic and mediastinal disorders - Other (oropharyngeal pain); Small intestinal obstruction; Weight loss

Increase in Risk Attribution:

- Changed to Likely from Less Likely: Anemia; Diarrhea; Platelet count decreased
- Changed to Less Likely from Rare but Serious: Febrile neutropenia
- <u>Changed to Likely from Also Reported on Talazoparib Trials But With Insufficient Evidence</u> for Attribution: Abdominal pain
- <u>Changed to Less Likely from Also Reported on Talazoparib Trials But With Insufficient</u> <u>Evidence for Attribution:</u> Anorexia; Fever; Headache; Hypokalemia; Infection; Nervous system disorders - Other (neuropathy peripheral); Rash maculo-papular; White blood cell decreased

Provided Further Clarification:

- Peripheral sensory neuropathy (previously under Also Reported on Talazoparib Trials But With Insufficient Evidence for Attribution) is now reported as Nervous system disorders -Other (neuropathy peripheral) (under Less Likely).
- Lung infection and Sepsis (previously under Also Reported on Talazoparib Trials But With Insufficient Evidence for Attribution) is now reported as Infection (under Less Likely).
- A new footnote #2 has been added as follows: "Infection may include any of the 75 infection sites under the INFECTIONS AND INFESTATIONS SOC."
- A new footnote #3 has been added as follows: "Neuropathy peripheral may include both Peripheral sensory neuropathy and Peripheral motor neuropathy under the NERVOURS SYSTEM DISORDERS."



#### Model Consent Forms Changes

The following section refers to changes made to the Model Consent Form. Please refer to the IRB Review Requirements section on Page 1 of this memo.

- 1. The Version Date has been updated.
- 2. **Pages 119-120 [<u>S1400G]</u>, "What possible risks...":** Patients currently receiving talazoparib **must** be informed of the bolded changes below. The manner by which this notification takes place is at the discretion of the local institution. At a minimum, patients must be notified at their next visit and this conversation must be documented in the patient chart. The following changes have been made to the talazoparib side effects information:

Added New Risk:

- <u>Occasional:</u> Heartburn; Nose bleed
- Rare but Serious: Swelling of the bowels which may require surgery

**Increase in Risk Attribution:** 

- <u>Changed to Common from Occasional:</u> Anemia which may require blood transfusion; Diarrhea; Bruising, bleeding
- <u>Changed to Occasional from Rare:</u> Infection, especially when white blood cell count is low
- <u>Changed to Common from Also Reported on Talazoparib Trials But With</u> <u>Insufficient Evidence for Attribution (i.e., added to the Risk Profile):</u> Pain
- <u>Changed to Occasional from Also Reported on Talazoparib Trials But With</u>
   <u>Insufficient Evidence for Attribution (i.e., added to the Risk Profile):</u> Loss of
   appetite; Fever; Headache; Muscle weakness; Numbness, tingling or pain of the
   arms and legs; Rash

[Note: Sites should seek an updated investigator brochure as required by site's IRB of record. The Investigator's brochure is available through the CTSU website. Complete the CTSU Request for Clinical Brochure form located under LPO Documents – Pharmacy Forms or by clicking on the study link. Complete and return to <u>ctsucontact@westat.com</u>].

An entire replacement protocol is attached. Please discard any previous versions of the protocol and attach this memorandum to the front of your copy of <u>S1400</u>.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

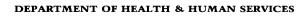
CC: **PROTOCOL & INFORMATION OFFICE** Hossein Borghaei, D.O. Corey J. Langer, M.D. James L. Wade III, M.D. Martin J. Edelman, M.D. Kathy S. Albain, M.D. Charu Aggarwal, M.D., M.P. Primo N. Lara, Jr., M.D. Scott Gettinger, M.D. Lyudmila A. Bazhenova, M.D. Taofeek K. Owonikoko, M.D., Ph.D. MSCR Lauren A. Byers, M.D. Mary Redman, Ph.D. Katherine Griffin, M.S. James Moon, M.S. Jieling Miao, M.S.



S1400 Revision #8 (contd.) Page 4

Louise Highleyman Krystle Pagarigan Sarah Basse MedImmune, LLC./ AstraZeneca Genentech, Inc. Pfizer, Inc. Bristol Myers Squib Medivation, Inc. / Pfizer Foundation Medicine Inc. TRIAD Nationwide







Public Health Service

National Institutes of Health National Cancer Institute Bethesda, Maryland 20892

# **Action Letter**

**DATE:** April 7, 2017

**FROM:** Richard Piekarz, MD, Medical Officer, IDB, CTEP, DCTD, NCI James Zwiebel, MD, Branch Chief, IDB, CTEP, DCTD, NCI Meg Mooney, MD, Branch Chief, CIB, CTEP, DCTD, NCI

**SUBJECT:** CONFIDENTIAL COMMUNICATION – Action Letter for Talazoparib (BMN 673, NSC 771561)

**TO:** Investigators for CTEP-supported Studies Involving Talazoparib (BMN 673, NSC 771561)

The purpose of this Action Letter is to alert patients and investigators in studies conducted by the Cancer Therapy Evaluation Program (CTEP), National Cancer Institute (NCI), of new and/or modified risk information associated with talazoparib, and to request all trials with talazoparib be amended to reflect these changes. You are receiving this letter because you are conducting a CTEP-sponsored trial that includes talazoparib. See the accompanying list of CTEP trials with talazoparib.

In response to the new/modified risk information CTEP is requiring that all trials with talazoparib be amended to reflect this new information. Detailed description of the new/modified risk(s) as well as detailed instructions regarding amendment requirements are described in this Action Letter. Amendments are due to the Protocol and Information Office (PIO) at <u>PIO@CTEP.NCI.NIH.GOV</u> by 5 PM ET on April 21, 2017 or as required based on protocol status (see the *General Actions Required Based on Protocol Status* section). The cover letter for the submitted amendment should state that it is being submitted in response to an Action Letter from Dr. Richard Piekarz (piekarzr@mail.nih.gov). Failure to respond in a timely fashion may result in suspension of the Principal Investigator or permanent study closure.

After review of all the available data, CTEP believes that the new and/or modified risk information does <u>NOT</u> significantly alter the risk-benefit profile for patients in the study since talazoparib is already known to cause serious adverse events and this new risk information does not change the overall weight given to risks versus benefits for patients in the study. CTEP considers all the proposed protocol and informed consent changes for studies affected by this Action Letter to be minor. Therefore, under the provisions of Department of Health and Human Services regulations for the protection of human subjects at 45 CFR 46.110, a protocol amendment that includes this new information can undergo expedited review if the Institutional Review Board (IRB) Chair (or other experienced IRB member designated to conduct expedited review by the Chair) concurs that the changes are minor. Additional information from the Office of Human Research Protections (OHRP) regarding this process is available at: http://www.hhs.gov/ohrp/policy/Correspondence/nci200870929.html.

The following section, *Specific Instruction*, includes background information on the risk(s), any risk mitigation strategies, and amendment requirements. The revised Comprehensive Adverse Events and Potential Risks (CAEPR) list (Attachment 1) and Informed Consent Document (ICD) risk information (Attachment 2) are also attached. Action Letter general instructions as well as instructions regarding amendment preparation (if a CTEP-approved amendment does not already accompany this Action Letter) are included in Attachment 3. You MUST follow the instructions outlined in Attachment 3.

## **CONFIDENTIAL - Page 1 of 9**

## **SPECIFIC INSTRUCTION**

#### Background

As part of Good Clinical Practice, CTEP reviews each CAEPR list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with talazoparib.

#### **Detailed Description of Required Protocol Changes for the Amendment/ Sample Change Memo Template**

1) <u>New Protocol Amendment/Version Date Included on the Title/Cover Page per Operations Office Policy:</u>

Protocol Cover Page: Page Number(s): \_\_\_\_\_ Version Date: \_\_\_\_\_

## 2) <u>Revision of the Protocol CAEPR:</u>

Protocol Section(s) for Insertion of Revised CAEPR (Version 2.1, December 29, 2016):\_\_\_\_ Page Number(s): \_\_\_\_\_

- Added New Risk:
  - Less Likely: Dyspepsia; Epistaxis; Pain
  - <u>Rare but Serious:</u> Typhlitis
  - <u>Also Reported on Talazoparib Trials But With Insufficient Evidence for Attribution:</u> Abdominal distension; Dry skin; Dysgeusia; Hepatic failure; Insomnia; Neck pain; Non-cardiac chest pain; Respiratory, thoracic and mediastinal disorders Other (oropharyngeal pain); Small intestinal obstruction; Weight loss
- Increase in Risk Attribution:
  - <u>Changed to Likely from Less Likely:</u> Anemia; Diarrhea; Platelet count decreased
  - Changed to Less Likely from Rare but Serious: Febrile neutropenia
  - <u>Changed to Likely from Also Reported on Talazoparib Trials But With Insufficient Evidence for</u> <u>Attribution:</u> Abdominal pain
  - <u>Changed to Less Likely from Also Reported on Talazoparib Trials But With Insufficient Evidence</u> <u>for Attribution:</u> Anorexia; Fever; Headache; Hypokalemia; Infection; Nervous system disorders -Other (neuropathy peripheral); Rash maculo-papular; White blood cell decreased
- Modified Specific Protocol Exceptions to Expedited Reporting (SPEER) reporting requirements:
  - <u>Added:</u> Abdominal pain; Alopecia; Anorexia; Dizziness; Fever; Headache; Infection; Pain; Vomiting
- <u>Provided Further Clarification:</u>
  - Peripheral sensory neuropathy (previously under Also Reported on Talazoparib Trials But With Insufficient Evidence for Attribution) is now reported as Nervous system disorders Other (neuropathy peripheral) (under Less Likely).
  - Lung infection and Sepsis (previously under Also Reported on Talazoparib Trials But With Insufficient Evidence for Attribution) is now reported as Infection (under Less Likely).

• A new footnote #2 has been added as follows: "Infection may include any of the 75 infection sites under the INFECTIONS AND INFESTATIONS SOC."

<u>PLEASE NOTE</u>: The specific detailed changes listed here compare the new revised CAEPR Version 2.1, and associated risk information for the ICD, to the most recent CAEPR Version 2.0. If your trial contains an older CAEPR version (i.e., does <u>NOT</u> currently contain CAEPR Version 2.0), you <u>MUST</u> include a description of any additional changes resulting from migration from the older CAEPR version.

3) <u>Revision of the ICD as Specified Below:</u>

The terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed form. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the ICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo.

- Added New Risk:
  - <u>Occasional:</u> Heartburn; Nose bleed
  - <u>Rare but Serious:</u> Swelling of the bowels which may require surgery
- Increase in Risk Attribution:
  - <u>Changed to Common from Occasional:</u> Anemia which may require blood transfusion; Diarrhea; Bruising, bleeding
  - <u>Changed to Occasional from Rare:</u> Infection, especially when white blood cell count is low
  - <u>Changed to Common from Also Reported on Talazoparib Trials But With Insufficient Evidence</u> for Attribution (i.e., added to the Risk Profile): Pain
  - <u>Changed to Occasional from Also Reported on Talazoparib Trials But With Insufficient Evidence</u> for Attribution (i.e., added to the Risk Profile): Loss of appetite; Fever; Headache; Muscle weakness; Numbness, tingling or pain of the arms and legs; Rash

<u>PLEASE NOTE</u>: The potential risks listed in the CAEPR whose relationship to talazoparib is still undetermined are not required by CTEP to be described in the ICD; however, they may be communicated to patients according to local IRB requirements.

## Attachment 1: Revised Talazoparib CAEPR – Version 2.1, December 29, 2016

## Comprehensive Adverse Events and Potential Risks list (CAEPR) for Talazoparib (BMN 673, NSC 771561)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' <a href="http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf">http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf</a> for further clarification. *Frequency is provided based on 232 patients*. Below is the CAEPR for Talazoparib (BMN 673).

**NOTE**: Report AEs on the SPEER <u>ONLY IF</u> they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

			Version 2.1, December 29, 2016 <sup>1</sup>
Adverse Events with Possible         Relationship to Talazoparib (BMN 673)         (CTCAE 4.0 Term)         [n= 232]         Likely (>20%)       Less Likely (<=20%)         Rare but Serious (<3%)			Specific Protocol Exceptions to Expedited Reporting (SPEER)
BLOOD AND LYMPHAT	• • •	Rate but Schous (1570)	
Anemia			Anemia (Gr 2)
	Febrile neutropenia		
GASTROINTESTINAL DI	SORDERS		
Abdominal pain			Abdominal pain (Gr 2)
	Constipation		Constipation (Gr 2)
Diarrhea			Diarrhea (Gr 2)
	Dyspepsia		
Nausea			Nausea (Gr 2)
		Typhlitis	
	Vomiting		Vomiting (Gr 2)
GENERAL DISORDERS A	AND ADMINISTRATION SITE CO	ONDITIONS	
Fatigue			Fatigue (Gr 2)
	Fever		Fever (Gr 2)
	Pain		Pain (Gr 2)
INFECTIONS AND INFES	4		
	Infection <sup>2</sup>		Infection <sup>2</sup> (Gr 2)
INVESTIGATIONS			
	Neutrophil count decreased		Neutrophil count decreased (Gr 2)
Platelet count decreased			Platelet count decreased (Gr 2)
	White blood cell decreased		
METABOLISM AND NUT			
	Anorexia		Anorexia (Gr 2)
	Hypokalemia		
NERVOUS SYSTEM DISC			
	Dizziness		Dizziness (Gr 2)

e Relati	Specific Protocol Exceptions to Expedited Reporting (SPEER)		
Likely (>20%)	Less Likely (<=20%)	<b>Rare but Serious (&lt;3%)</b>	
	Headache		Headache (Gr 2)
	Nervous system disorders - Other (neuropathy peripheral) <sup>3</sup>		
RESPIRATORY, THORACIC A	AND MEDIASTINAL DISORDE	RS	
	Epistaxis		
SKIN AND SUBCUTANEOUS	TISSUE DISORDERS		
	Alopecia		Alopecia (Gr 2)
	Rash maculo-papular		

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV</u>. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.

<sup>2</sup>Infection may include any of the 75 infection sites under the INFECTIONS AND INFESTATIONS SOC.

<sup>3</sup>Neuropathy peripheral may include both Peripheral sensory neuropathy and Peripheral motor neuropathy under the NERVOURS SYSTEM DISORDERS.

Adverse events reported on talazoparib (BMN 673) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that talazoparib (BMN 673) caused the adverse event:

#### **CARDIAC DISORDERS** - Atrial flutter

GASTROINTESTINAL DISORDERS - Abdominal distension; Flatulence; Small intestinal obstruction; Toothache GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS - Edema limbs; Non-cardiac chest pain HEPATOBILIARY DISORDERS - Hepatic failure

**INVESTIGATIONS** - Alanine aminotransferase increased; Aspartate aminotransferase increased; Weight loss **MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS** - Arthralgia; Back pain; Musculoskeletal and connective tissue disorder - Other (muscle cramps); Musculoskeletal and connective tissue disorder - Other (muscle spasm); Neck pain; Pain in extremity

NERVOUS SYSTEM DISORDERS - Dysgeusia

PSYCHIATRIC DISORDERS - Anxiety; Insomnia

**RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS -** Cough; Dyspnea; Pleural effusion; Respiratory, thoracic and mediastinal disorders - Other (oropharyngeal pain) **SKIN AND SUBCUTANEOUS TISSUE DISORDERS -** Dry skin

**Note**: Talazoparib (BMN 673) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

#### Attachment 2: Revised ICD Section(s) for Talazoparib

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed format. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the ICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. Please insert this condensed risk profile as the Table of Possible Side Effects for Talazoparib in your ICD.

## Risk Profile for Talazoparib (CAEPR Version 2.1, December 29, 2016)

**NOTE:** The risk list section in the new NCI Consent Form Template (latest version: May 2013) will include the wording below:

"If you choose to take part in this study, there is a risk that:

- You may lose time at work or home and spend more time in the hospital or doctor's office than usual
- You may be asked sensitive or private questions which you normally do not discuss

The talazoparib (BMN 673) used in this study may affect how different parts of your body work such as your liver, kidneys, heart, and blood. The study doctor will be testing your blood and will let you know if changes occur that may affect your health.

There is also a risk that you could have side effects from the study drug(s)/study approach.

Here are important points about side effects:

- The study doctors do not know who will or will not have side effects.
- Some side effects may go away soon, some may last a long time, or some may never go away.
- Some side effects may interfere with your ability to have children.
- Some side effects may be serious and may even result in death.

Here are important points about how you and the study doctor can make side effects less of a problem:

- Tell the study doctor if you notice or feel anything different so they can see if you are having a side effect.
- The study doctor may be able to treat some side effects.
- The study doctor may adjust the study drugs to try to reduce side effects.

The tables below show the most common and the most serious side effects that researchers know about. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you."

Please insert this condensed risk profile as the Table of Possible Side Effects for Talazoparib (BMN 673) in your ICD.

#### COMMON, SOME MAY BE SERIOUS

In 100 people receiving talazoparib (BMN 673), more than 20 and up to 100 may have:

- Anemia which may require blood transfusion
- Pain
- Diarrhea, nausea
- Tiredness
- Bruising, bleeding

#### **OCCASIONAL, SOME MAY BE SERIOUS**

- In 100 people receiving talazoparib (BMN 673), from 4 to 20 may have:
- Infection, especially when white blood cell count is low
- Constipation, heartburn, vomiting
- Fever
- Loss of appetite
- Dizziness, headache
- Muscle weakness
- Numbness, tingling or pain of the arms and legs
- Nose bleed
- Hair loss, rash

## **RARE, AND SERIOUS**

In 100 people receiving talazoparib (BMN 673), 3 or fewer may have:

• Swelling of the bowels which may require surgery

## Attachment 3: Action Letter GENERAL INSTRUCTIONS

- 1. Distribute this Action Letter (and any accompanying CTEP-approved amendment) to all participating investigators and IRBs within 2 working days. For National Clinical Trials Network (NCTN) studies, please follow instructions from your Operations office. For sites participating in the NCI Central-IRB (CIRB) Initiative, CTEP has provided a copy of this Action Letter to the CIRB if the Action Letter affects any studies under CIRB review.
- 2. Accrual of new patients must be suspended until the IRB of record has reviewed and approved a CTEPapproved amendment created in response to this Action Letter. This amendment can undergo expedited approval at the discretion of the IRB Chair/designee as explained on the first page of the Action Letter.
- 3. Patients currently on study may continue on study provided they are informed of the new and/or modified risk information. This information should be communicated to patients already enrolled on study without waiting for IRB review/approval since this information represents a significant new finding(s) that developed during the course of the research that may relate to a patient's willingness to continue participation and per the Office for Human Research Protections, the regulations do not require IRB review and approval of statements describing such significant new findings before they are provided to already enrolled patients. Documentation of their informed consent should be carried out according to local IRB requirements.
- 4. Save a copy of the Action Letter (and any CTEP approval letter for an accompanying amendment) for your records.

# INSTRUCTIONS FOR PREPARATION OF AN AMENDMENT IN RESPONSE TO THIS Action Letter (if a CTEP-Approved amendment for your trial does <u>not</u> already accompany the Action Letter) General Instructions on Amendment Preparation:

- 1. Instructions regarding the due date for an amendment and where to send it are included on the first page of this Action Letter. The Clinical Trials Operations Offices may use the *Detailed Description of Required Protocol Changes* section in this Action Letter as the template for their Change Memo; however, it is not required if an Operations Office prefers to use its own Change Memo.
- 2. If any of the NCI-required changes are not applicable for your trial (i.e., already appear in your protocol), note this in your Change Memo.
- 3. The ICD changes include CTEP's suggested lay terms for each adverse event identified in the CAEPR. You may substitute different lay terms for each concept if appropriate for your patient population. If you have chosen to reformat and/or reword the risk profile in any way, please state, "The risk profile has been modified" in the cover memo.

#### **Specific Instructions on Amendment Preparation Based on Protocol Status:**

- A. Trials with a current CTEP status of "Active"
  - Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
  - The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's editorial and administrative update policy.
  - Suspend accrual of new patients until the IRB of record has reviewed and approved a CTEP-approved amendment created in response to this Action Letter.

- B. <u>Trials with a current status of "Approved", "Temporarily Closed to Accrual and Treatment", or</u> <u>"Temporarily Closed to Accrual</u>"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter in the next revised protocol draft submitted to CTEP. The protocol amendment must be submitted and approved by CTEP <u>before</u> the trial can be activated or re-opened.
  - You may include additional non-Action Letter related changes (any type) in your amendment response.
- C. Trials with a current CTEP status of "In Review"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter. These changes must be included in the next revised protocol draft submitted to and approved by CTEP <u>before</u> the trial can be activated.
  - You may include additional non-Action Letter related changes (any type) in your revision response. Note the inclusion of non-Action Letter related changes may delay approval of your trial.
- D. Trials with a current CTEP status of "Closed to Accrual"

## If your trial is under a CTEP-held IND:

- Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
- The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy.

## If your trial is NOT under a CTEP-held IND:

- If Action Letter INCLUDES information that impacts patient care (e.g., new/adjusted dose modifications or special monitoring for patient population at risk) An amendment is required. Review and follow <u>ALL</u> the instructions outlined in this Action Letter. The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy.
  - If Action Letter does NOT INCLUDE information that impacts patient care Amendment is typically NOT required.

#### E. <u>Trials with a current CTEP status of "Closed to Accrual and Treatment" or "Complete"</u>

• Amendment is not required. This information is being sent for informational purposes only. You may follow local IRB or Operations Office procedures and requirements.



April 1, 2	017		
TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS		
FROM:	SWOG Operations Office		
RE:	IND Safety Reports for Ipilimumab (BMS-734016)		
	MEMORANDUM		
	<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>		
	Status Change( )IRB Review only( )Activation( )Closure( )Reactivation		
	<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>		

#### **MEMORANDUM**

The following new safety report has been posted regarding adverse event that occurred in association with the drug ipilimumab. Please access this safety report via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

This safety report pertains to the following study:

Reports:

Mar. 03, 2017 AE-2093875

<u>S1400I</u> Lung <u>S1404</u> Melanoma <u>S1609</u> Early Therapeutic

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.



# CHAIR 3181 SW Sam Jackson Pk Ro

GROUP CHAIR'S OFFICE Charles D. Blanke, MD

Portland, OR 97239

503-494-5586 503-346-8038 FAX

#### OPERATIONS OFFICE

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210-614-8808 210-614-0006 FAX

#### STATISTICAL CENTER

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206-652-2267 206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

This memorandum serves to notify the NCI and the SWOG Statistical Center.





	April 1, 2	April 1, 2017			
	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS			
	FROM:	SWOG Operations Office			
	RE:	IND Safety Reports for Nivolumab (BMS-936558)			
		MEMORANDUM			
1		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>			
		Status Change( )IRB Review only( )Activation( )Closure( )Reactivation			
		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>			

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These safety reports pertain to the following study:

Reports:

S1400I Lung Ma S1609 Early Therapeutics

Mar. 03, 2017 AE-2093875

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.



# 3181 SW Sam Jackson Pk Ro MC: L586

GROUP CHAIR'S OFFICE Charles D. Blanke, MD

CHAIR

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March 15, 2017 TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS FROM: SWOG Operations Office RE: IND Safety Reports for Ipilimumab (BMS-734016) **MEMORANDUM IRB Review Requirements** Full board review required Expedited review allowed V) No review required () Status Change **IRB** Review only () Activation ) Closure ) () Reactivation **Protocol changes** Eligibility changes ) Treatment / Dose Modification / Study Calendar changes () Informed Consent changes Patient notification not required () Patient notification required () Scientific / Statistical Consideration changes ( Specimen Submission changes ) Data Submission / Forms changes ) Editorial / Administrative changes Other:

**MEMORANDUM** 

The following new safety report has been posted regarding adverse event that occurred in association with the drug ipilimumab. Please access this safety report via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

This safety report pertains to the following study:

<u>S14001</u> Lung <u>S1404</u> Melanoma S1609 Early Therapeutic Reports:

Feb. 23, 2017 AE-2728211

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.



Charles D. Blanke, MD CHAIR

**GROUP CHAIR'S OFFICE** 

MC: L586 Portland, OR 97239

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This memorandum serves to notify the NCI and the SWOG Statistical Center.





March 15, 2017 TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS FROM: SWOG Operations Office **GROUP CHAIR'S OFFICE** IND Safety Reports for Nivolumab (BMS-936558) RE: **MEMORANDUM IRB Review Requirements** ( ) Full board review required Expedited review allowed (√) No review required () **Status Change** IRB Review only ) ( Activation ) Closure ) Reactivation () **Protocol changes** Eligibility changes ) Treatment / Dose Modification / Study Calendar changes () Informed Consent changes Patient notification not required () Patient notification required () Scientific / Statistical Consideration changes () Specimen Submission changes () Data Submission / Forms changes ) Editorial / Administrative changes ) Other:

#### **MEMORANDUM**

The following new safety report has been posted regarding adverse events that occurred in association with the drug nivolumab. Please access this safety report via the study's abstract page or the safetv report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:	Reports:	
<u>S1400I</u> Lung <u>S1609</u> Early Therapeutics	Jan. 31, 2017 Feb. 06, 2017 Feb. 07, 2017 Feb. 17, 2017 Feb. 21, 2017 Feb. 23, 2017	Mfr Rpt #BMS2016070192 Mfr Rpt #BMS2017007497 Mfr Rpt #BMS2016107222 FU Mfr Rpt #BMS2016076340 FU Mfr Rpt #BMS2015079040 Mfr Rpt #BMS2016109072 AE-2728211 AE-2525865 FU



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Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





March 1, 2017			
TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS		
FROM:	SWOG Operations Office		
RE:	IND Safety Reports for Ipilimumab (BMS-734016)		
	MEMORANDUM		
	<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>		
	Status Change( )IRB Review only( )Activation( )Closure( )Reactivation		
	<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>		

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Reports:

These safety reports pertain to the following study:

<u>S14001</u> Lung <u>S1404</u> Melanoma S1609 Early Therapeutic Jan. 25, 2017 Mfr Rpt #BMS2017004099 Feb. 06, 2017 AE2568911

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.



## Charles D. Blanke, MD CHAIR

**GROUP CHAIR'S OFFICE** 

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This memorandum serves to notify the NCI and the SWOG Statistical Center.





	March 1, 2017			
	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS		
	FROM:	SWOG Operations Office		
	RE:	IND Safety Reports for Nivolumab (BMS-936558)		
		MEMORANDUM		
1		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>		
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		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>		

#### **MEMORANDUM**

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These safety reports pertain to the following study:	Reports:	
<u>S1400I</u> Lung	Jan. 25, 2017	Mfr Rpt #BMS2017004099
<u>S1609</u> Early Therapeutics	Feb. 06, 2017	AE2568911

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.



Charles D. Blanke, MD CHAIR

**GROUP CHAIR'S OFFICE** 

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This memorandum serves to notify the NCI and the SWOG Statistical Center.





#### February 15, 2017

	,,		
	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK MEMBERS; CTSU	
	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: cmiwa@swog.org)	
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	RE:	<b><u>S1400</u></b> , "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer ". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.	
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM	
Portland, OR 97239		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363	
503-494-5586		E-mail: vpapadim@mdanderson.org	
503-346-8038 FAX		IRB Review Requirements () Full board review required	
OPERATIONS OFFICE		() Expedited review allowed $()$ No review required	
4201 Medical Dr			
Suite 250		Status Change	
San Antonio, TX 78229		<ul> <li>( ) IRB Review only</li> <li>( ) Activation</li> </ul>	
210-614-8808		() Closure	
210-614-0006 FAX		() Reactivation	
STATISTICAL CENTER		Protocol changes () Eligibility changes () Transition (Otable Caluadate Stream)	
1730 Minor Ave		<ul> <li>Treatment / Dose Modification / Study Calendar changes</li> <li>Informed Consent changes</li> </ul>	
Suite 1900		() Patient notification not required	
Seattle, WA 98101		() Patient notification require- see details below	
206-652-2267		<ul> <li>Scientific / Statistical Consideration changes</li> <li>Specimen Submission changes</li> </ul>	
206-342-1616 FAX		<ul> <li>( ) Data Submission / Forms changes</li> <li>( ) Editorial / Administrative changes</li> </ul>	
1100 Fairview Ave North		() Other:	
M3-C102			
PO Box 19024		MEMORANDUM	
Seattle, WA 98109			
206-667-4623 206-667-4408 FAX	local accr	bse of this memorandum is to inform sites of the <i>potential</i> requirement to close ual to the below-referenced sub-study in response to the CTEP Action Letter I on February 9, 2017.	
swog.org	Previously	A Phase III Randomized Study of Nivolumab plus Ipilimumab versus Nivolumab for 7 Treated Patients with Stage IV Squamous Cell Lung Cancer and No Matching 7 (Lung-Map Sub-Study)"	

CTEP has updated the standard language included in their Action Letters to require immediate suspension of accrual to active studies until the revision incorporating the changes outlined in the Request for Rapid Amendment and Action Letter have been



incorporated into the protocol/consent and approved by both CTEP and the IRB of record. CTEP and CIRB have approved this revision (Revision #7) for this study.

Sites whose IRBs of record have already reviewed and approved Revision #7 (including sites utilizing CIRB as the IRB of record) DO NOT need to suspend local accrual.

Any site not utilizing CIRB <u>and</u> whose IRB of record has not approved Revision #7 MUST suspend local accrual to sub-study, S1400I only until the IRB of record has approved Revision #7.

This memorandum serves to notify the NCI and SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE





206-342-1616 FAX

1100 Fairview Ave North

Suite 1900

M3-C102

PO Box 19024 Seattle, WA 98109

206-667-4623

206-667-4408 FAX

February 15, 2017

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS	
	FROM:	SWOG Operations Office	
GROUP CHAIR'S OFFICE	RE:	IND Safety Reports for Ipilimumab (BMS-734016) MEMORANDUM	
Charles D. Blanke, MD CHAIR			
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239		<ul> <li>IRB Review Requirements</li> <li>() Full board review required</li> <li>(√) Expedited review allowed</li> <li>() No review required</li> </ul>	
503-494-5586 503-346-8038 FAX OPERATIONS OFFICE		Status Change( )IRB Review only( )Activation( )Closure( )Reactivation	
4201 Medical Dr Suite 250 San Antonio, TX 78229		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>	
210-614-8808 210-614-0006 FAX STATISTICAL CENTER		<ul> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> </ul>	
1730 Minor Ave		<ul> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>	

#### MEMORANDUM

The following new safety reports have been posted regarding adverse event that occurred in association with the drug ipilimumab. Please access these safety reports via the study's website abstract page or the safety report link on the SWOG (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study: Reports: S1400I Lung Dec. 21, 2016 Mfr Rpt #BMS2016102751 FU Jan. 11, 2017 S1404 Melanoma Mfr Rpt #BMS2016111478 **S1609** Early Therapeutic Jan. 13, 2017 Mfr Rpt #BMS2016109074 FU Jan. 18, 2017 Mfr Rpt #BMS2016031599 FU Jan. 19, 2017 AE-2077443

swog.org

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local



policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza – Bristol Myers Squibb





1730 Minor Ave Suite 1900

206-342-1616 FAX

1100 Fairview Ave North

February 15, 2017

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
	FROM:	SWOG Operations Office
GROUP CHAIR'S OFFICE	RE:	IND Safety Reports for Nivolumab (BMS-936558)
Charles D. Blanke, MD CHAIR		MEMORANDUM
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239		<ul> <li>IRB Review Requirements</li> <li>() Full board review required</li> <li>(√) Expedited review allowed</li> <li>() No review required</li> </ul>
503-494-5586 503-346-8038 FAX OPERATIONS OFFICE		Status Change         ( )       IRB Review only         ( )       Activation         ( )       Closure         ( )       Reactivation
4201 Medical Dr Suite 250 San Antonio, TX 78229		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>
210-614-8808 210-614-0006 FAX		<ul> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> </ul>
STATISTICAL CENTER		<ul> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> </ul>
1730 Minor Ave		() Other:
Suite 1900		

### **MEMORANDUM**

The following new safety report has been posted regarding adverse events that occurred in association with the drug nivolumab. Please access this safety report via the study's the the SWOG website abstract page or safety report link on (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:	S:
<u>S14001</u> Lung <u>S1609</u> Early Therapeutics Jan. 11 Jan. 13 Jan. 18 Jan. 19 Jan. 23	, 2017         Mfr Rpt #BMS2016109074 FU           , 2017         Mfr Rpt #BMS2016031599 FU           , 2017         Mfr Rpt #BMS2016110187 FU           , 2017         AE-2077443

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M3-C102

PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX



Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza – Bristol Myers Squibb





	Distribution Email Date	
	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u> )
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	RE:	<u><b>S1400</b></u> , "Phase II/III Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.
3181 SW Sam Jackson Pk Rd		STATUS CHANGE
MC: L586 Portland, OR 97239		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: vpapadim@mdanderson.org
503-494-5586 503-346-8038 FAX OPERATIONS OFFICE		<ul> <li>IRB Review Requirements</li> <li>(√) Full board review required</li> <li>() Expedited review allowed</li> <li>() No review required</li> </ul>
4201 Medical Dr Suite 250 San Antonio, TX 78229 210-614-8808		<ul> <li>Status Change</li> <li>() IRB Review only</li> <li>(√) Initial Sub-study Activation - <u>S1400G</u></li> <li>() Temporary Closure</li> <li>() Reactivation</li> </ul>
210-614-0006 FAX STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>Protocol changes <ul> <li>Eligibility changes</li> <li>Treatment / Dose Modification / Study Calendar changes</li> <li>Informed Consent changes</li> <li>Patient notification not required</li> <li>Patient notification required</li> <li>Scientific / Statistical Consideration changes</li> <li>Specimen Submission changes</li> </ul> </li> </ul>
206-652-2267 206-342-1616 FAX		<ul> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>
1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109	Effective 2 patient acc	<u>S1400G ACTIVATION</u> :00 p.m. Pacific Time on February 7, 2017, the following sub-study will be open for rual.

206-667-4623 206-667-4408 FAX

### swog.org

y 7, 4 2017, ıy iy patient accrual.

S1400G: A Phase II Study of Talazoparib (BMN 673) in Patients with Homologous Recombination Repair Deficiency Positive Stage IV Squamous Cell Lung Cancer (Lung-Map Sub-Study)

### Protocol Specific Requirements – Protocol Training

A member of each institution (CRA or investigator, etc.) must complete the Protocol Specific Requirements (PSR) prior to patient registration. The PSR will need to be renewed prior to



patient registration each time a new sub-study has been added. The PSR can be satisfied by completing the training online and submitting the verification at:

<u>https://swog.org/members/Training/S1400Training.asp</u>. Study centers can check the status of their registration packets by querying the Regulatory Support System (RSS) site registration status page of the CTSU member web site by entering credentials at <u>https://www.ctsu.org</u>.

#### **Updated Forms**

Please discard old versions of these forms and replace with the updated versions listed as follows.

### <u>S1400</u>

S1400 Request for Sub-Study Reassignment (500072v1.3) S1400 Status Update (New form 500228v1.1) S1400 Request for New Sub-study Assignment (New form 500229v1.1) S1400 Onstudy Form (500014v1.5)

#### <u>S1400B</u>

S1400B Onstudy Form (500029v1.6)

### <u>S1400I</u>

S1400I Onstudy Form (500153v1.1)

This memorandum serves to notify the NCI and the SWOG Statistical Center.

#### cc: PROTOCOL & INFORMATION OFFICE

Hossein Borghaei, D.O. Corey J. Langer, M.D. James L. Wade III, M.D. Martin J. Edelman, M.D. Kathy S. Albain, M.D. Charu Aggarwal, M.D., M.P. Primo N. Lara, Jr., M.D. Scott Gettinger, M.D. Lyudmila A. Bazhenova, M.D. Taofeek K. Owonikoko, M.D., Ph.D. MSCR Lauren A. Byers, M.D. Natasha Leighl, BSc, MMSc, M.D. Naiyer Rizvi, M.D. Mary Redman, Ph.D. Katherine Griffin, M.S. James Moon, M.S. Jieling Miao, M.S. Louise Highleyman Krystle Pagarigan MedImmune, LLC./ AstraZeneca Genentech. Inc. Pfizer. Inc. **Bristol Myers Squib** Medivation, Inc. / Pfizer Foundation Medicine Inc. TRIAD Nationwide





Leading cancer research.	ogether.			
	Distributio Email Dat CTEP Su	te:	February 15, 2017 February 2, 2017 August 29, 2016 and January 19, 2017	
	TO:	ALL NATIONA	AL CLINICAL TRIALS NETWORK (NCTN) PARTICIPANTS	
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa,	Protocol Coordinator (E-mail: cmiwa@swog.org)	
Charles D. Blanke, MD CHAIR	RE:	Squamous Ce	Biomarker-Driven Master Protocol for Previously Treated I Lung Cancer ". Study Chairs: V. Papadimitrakopoulou, F.R. lack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.	
3181 SW Sam Jackson Pk Rd MC: L586		REVISION #		
Portland, OR 97239		Study Chair:	Vassiliki A. Papadimitrakopoulou, M.D.	
503-494-5586 503-346-8038 FAX		Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>		
OPERATIONS OFFICE 4201 Medical Dr		(√) Full bo () Expec	Requirements bard review required lited review allowed view required	
Suite 250 San Antonio, TX 78229 210-614-8808		Status Chan () IRB R () Activa () Closu	eview only tion	
210-614-0006 FAX		()	ivation	
STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101		(√) Treatr	lity changes nent / Dose Modification / Study Calendar changes ned Consent changes Patient notification not required Patient notification required (for a sub-set of the changes made	
206-652-2267 206-342-1616 FAX		() Speci (√) Data S	in Revision #7 only - see details below) tific / Statistical Consideration changes men Submission changes Submission / Forms changes ial / Administrative changes	
1100 Fairview Ave North M3-C102			New Sub-Study <u>S1400G</u> has been added	
PO Box 19024			the CIRB as their IRB of record: The protocol and/or informed	
Seattle, WA 98109		activated with	n changes have been approved by the CIRB and must be nin 30 days of the CIRB posting of this notice. If local approval is within 30 days, accrual must be suspended until approval is	
000 007 4000				

206-667-4623 206-667-4408 FAX

obtained.



Sites not using the NCI CIRB: Per CTMB Guidelines, the protocol updates and/or informed consent changes must be approved by local IRBs within 90 days of distribution of this notice. The changes in this revision are effective upon approval by the local IRB; however, any changes to eligibility become effective 6 weeks after distribution of this notice. If local approval is not granted within 6 weeks, accrual must be suspended until approval is obtained.



### REVISION #6 and #7

Revision #6 and Revision #7 are combined here to ease the burden on participating institutions. SWOG received NCI approval of Revision #7 (version date 1/19/17) at the same time as receiving NCI approval of Revision #6 (version date 8/29/16). Therefore, the protocol with version date 8/29/16 was never the active version of the protocol and does not need to be processed separately.

Revision #7 (version date 1/19/17) is posted on the SWOG and CTSU websites. Although it should not be necessary, Revision #6 (version date 8/29/16) is accessible on the S1400 abstract page under "Previous Updates".

The Revision Memo has been organized by revision number with the protocol edits for <u>**S1400**</u> and each of the sub-studies, followed by the model consent form edits.

### Revision #6

Revision #6 includes the following changes:

- 1) Administrative updates and clarifications throughout the protocol and consents;
- New Sub-study: <u>S1400G</u>: A biomarker-driven study including a PARP inhibitor. This study will follow the Phase II design from Design #2: Seamless Phase II followed by Phase III (see Section 11.2 of <u>S1400</u>) among patients defined to be HRRD MDVN-positive.

The revision has been organized by protocol edits for <u>S1400</u> and each of the sub-studies, followed by the model consent form edits.

### General throughout Protocol

- 1. The Version Date of the protocol and the model consent forms has been updated.
- 2. Table of Contents: The page numbers have been updated for the following sections: <u>S1400</u>, <u>S1400A</u>, <u>S1400B</u>, <u>S1400C</u>, <u>S1400D</u>, <u>S1400E</u>, <u>S1400I</u>.
- 3. Throughout the protocol, formatting, typographical errors, pagination, and cross-references have been corrected as needed.

### <u>S1400</u>

- 1. **Page 1, Title Page:** The title page has been updated to include Talazoparib in the list of study agents.
- 2. **Page 4, Table of Contents:** A new section, 18.2 g, <u>S1400G</u>: HRRD-Talazoparib has been added.
- Page 6, Schema: The schema has been updated to reflect the addition of a new sub-study, <u>S1400G</u> and the removal of the closed sub-study, <u>S1400C</u>. ß footnote has been removed.
- 4. **Page 15, Section 5.1b, Screening/Pre-Screening Registration:** "or recurrent" has been added after "Stage IV" in two locations.
- 5. **Page 16, Section 5.1c, Screening/Pre-Screening Registration:** This eligibility criterion regarding adequate tissue has been reformatted for easier readability.
- 6. **Page 49, Section 16.0, Trial Master File:** A new section has been added to provide information on FDA inspections.
- 7. **Page 51, Section 18, Appendix:** <u>S1400G</u>: A new appendix has been added, HRRD-Talazoparib.



- 8. Page 52, Section 18.1a.1, Biomarker Exclusion Rules and Section 18.1a.2 Substudy biomarker eligibility definitions: These sections have been removed as they contain duplicate information already contained in Section 5 of the sub-studies.
- 9. **Page 54, Section 18.1a, Hybrid Selection & Sequencing:** The Illumina HiSeq system has been updated to the Illumina HiSeq 4,000 system.
- 10. **Page 65, Section 18.1d, Dose and Administration Schedules Overview:** <u>S1400G</u> has been added to Table 1.1 ("Sub-studies Open to Accrual"). <u>S1400C</u> has been relocated to Table 1.2 ("Sub-studies Closed to Accrual").

### <u>S1400B</u>

- 1. **Page 146, Cancer Trials Support Unit (CTSU) Address and Contact Information:** The row regarding detailed information on the regulatory and monitoring procedures for CTSU has been removed.
- 2. **Page 163, Section 7.0, Treatment Plan:** The Sub-Study Chairs have been updated.
- 3. **Page 176, Section 8.5, Dose Modification Contacts:** The Sub-Study Chairs have been updated.
- 4. Pages 177, 178, & 181, Sections 9.1 Arm 1 GDC-0032 (Taselisib) and 9.3 Arm 3 Re-Registration GDC-0032 (Taselisib):
  - The SWOG's Best Practices note has been relocated as a note above the footnotes and removed from ß footnote.
  - Ω has been added in the Disease Assessment row and CT or MRI row for Cycle 3 at week 7, Subsequent Cycles at week 13, Off Tx Follow-up prior to prog.
  - A new column "At Off Tx" has been added and the Off Tx prior to prog and Off Tx after prog columns have been updated with the addition.
- 5. **Page 195, Section 16.1h.2, Adverse Events Reporting Requirements:** The first sentence has been revised to indicate the location to submit AE supporting documentation.

### S1400C

- 1. **Pages 198-255:** A water mark has been added for the closure of the sub-study.
- 2. **Page 200, Cancer Trials Support Unit (CTSU) Address and Contact Information:** The row regarding detailed information on the regulatory and monitoring procedures for CTSU has been removed.
- 3. Pages 236, 237, 240, & 241, Section 9.1 Arm 1 (Palbociclib) & 9.3 Arm 3 Re-Registration (Palbociclib) Study Calendar:
  - The SWOG's Best Practices note has been relocated as a note above the footnotes and removed from ß footnote
  - Ω Has been added to Disease Assessment row and CT or MRI row for Cycle 2 at week 7, Cycle 4 at week 13, Subsequent cycles, Off Tx FU Prior to Prog.
  - A new column "At Off Tx" has been added and the Off Tx prior to prog and Off Tx after prog columns have been updated with the addition.



4. **Page 253, Section 16.1h.2, Adverse Events Reporting Requirements:** The first sentence has been revised to indicate the location to submit AE supporting documentation.

### <u>S1400D</u>

- 1. **Page 258, Cancer Trials Support Unit (CTSU) Address and Contact Information:** The row regarding detailed information on the regulatory and monitoring procedures for CTSU has been removed.
- 2. **Page 270, Section 5.2b, Sub-study Specific Clinical Laboratory Criteria:** The eligibility criterion related to CYP3A4 medications has been revised from "substrates" to "inhibitors and/or inducers."
- 3. Pages 287-289, & 292-294, Section 9.1 Arm 1 (AZD4547) & 9.3 Arm 3 Re-Registration (AZD4547) Study Calendar:
  - The SWOG's Best Practices note has been relocated as a note above the footnotes and removed from ß footnote
  - Ω has been added to Disease Assessment row and CT or MRI row at Cycle 3, week 7, Subsequent Cycles, Off Tx Follow-Up Prior to Prog.
  - A new column, "At off Tx" has been added and the Off Tx prior to prog and Off Tx after prog columns have been updated with the addition.
  - X Ophthalmologic Assessment at Subsequent Cycles has been deleted.
- 4. **Page 305, Section 16.1h.2,** Adverse Event Reporting Requirements: The first sentence has been revised to indicate the location to submit AE supporting documentation.

### <u>S1400I</u>

- 1. **Page 363, Cancer Trials Support Unit (CTSU) Address and Contact Information:** The row regarding detailed information on the regulatory and monitoring procedures for CTSU has been removed.
- 2. **Page 364, Schema**: A footnote has been inserted to state that upon progression, patients may be eligible for another sub-study.
- 3. **Page 390, Section 5.2h, Sub-Study Specific Clinical/Laboratory Criteria:** "Revision #5" has been replaced with "9/1/16" on the criteria regarding Patient Reported Outcomes
- 4. **Page 395, Section 7.3a, Criteria for Removal from Protocol Treatment:** A footnote \* has been added providing information on new sub-study assignment.
- 5. **Page 396, Section 7.5, Follow-Up Period:** A note has been added for patients that enroll on a new sub-study following progression.
- 6. **Page 402, Section 8.5g, Treatment Discontinuation Criteria Nivolumab:** The third paragraph has been removed as it is duplicated information.
- 7. Page 412-413, Section 9.0 Study Calendar:
  - The SWOG's Best Practices note has been relocated as a note above the footnotes and removed from ß footnote
  - Ω Has been added to Disease Assessment row and CT or MRI row at Cycle 4, week 7, Subsequent Cycles, Off Tx FU Prior to Prog.



- A new column "At Off Tx" has been added and the Off Tx prior to prog and Off Tx after prog columns have been updated with the addition.
- The cover sheet information has been removed from calendar and the © footnote has been corrected to specify the timepoints the Cover Sheet for the PROs should be completed.
- "Cycle 7" has been added to the w footnote
- 8. **Page 418, Section 14.4c, Data Submission Overview:** Section 14.4d has been incorporated into Section 14.c and the data submission for PROs has been updated.

Subsequent sections have been re-numbered accordingly.

- 9. **Page 419, Section 14.4g, Data Submission Overview:** A note has been added for patients that enroll on a new sub-study following progression.
- 10. **Page 419, Section 14.4j, Data Submission Overview:** A new section has been added for the request for new sub-study assignment.
- 11. **Page 428, Section 16.1h.2,** Adverse Event Reporting Requirements: The first sentence has been revised to indicate the location to submit AE supporting documentation.
- 12. **Page 440, Section 18.2, Patient Questionnaires: Instructions for Administration:** In the Method, "Revision #5" has been replaced with "9/1/16" in the last sentence.

### <u>S1400G</u>

Pages 451-502, Section 18.2g, <u>S1400G</u>: A new sub-study, <u>S1400G</u>, has been inserted. S1400G is a new biomarker driven study. This study will employ Design # 2, the seamless Phase II followed by Phase III design. The objective of <u>S1400G</u> is to evaluate talazoparib (BMN 673) a poly (ADP) ribose polymerase (PARP) inhibitor, in Homologous Recombination Repair Deficiency (HRRD) Positive patients.

### Model Consent Forms Changes

The following refers to changes made to the Model Consent Form. Please refer to the IRB Review Requirements section on Page 1 of this memo.

- 1. The Version Date has been updated.
- 2. Throughout the consent form, typographical errors were corrected.
- 3. **Pages 5** [S1400] & 19 [S1400PS]: The screening and pre-screening schemas have been updated to a more simplified format. The idea is to provide a very simple and generic schema to patients. The details of each sub-study will be contained in the specific sub-study.
- 4. **Pages 10 [S1400], 24 [S1400PS], 53 [S1400B], 82 [S1400D], 111 [S1400]** "What is involved?": The amount of blood collected in the optional studies has been corrected to 1 tablespoon.
- 5. **Pages 6** [S1400] & 19 [S1400PS], "What extra tests,": The following sentence has been added to the end of the first paragraph. "This will be a standard surgical consent form from the institution where the biopsy procedure takes place."
- 6. **Pages 114-126 <u>S1400G</u>**, New Sub-study Model Consent Form: A new Sub-study Model Consent Form, <u>S1400G</u>, has been inserted.



### **Revision #7**

Revision #7 has been prepared in response to the Request for Rapid Amendment (RRA) received on January 4, 2017 from Dr. Howard Streicher (streicherh@ctep.nci.nih.gov), Dr. James Zwiebel (zwiebelj@ctep.nci.nih.gov), and Dr. Meg Mooney (mooneym@ctep.nci.nih.gov). The associate Action Letter is attached.

The above-referenced study has been updated as follows:

- 1. The Version Date of the protocol and Model Consent Forms has been updated.
- 2. Table of Contents: The page numbers have been updated.

### <u>S1400I</u>

1. Section 3.1c.1, Nivolumab (BMS-936558, MDX1106, Opdivo®) (NSC # 748726) (IND-119672): The nivolumab adverse effects section has been replaced with Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.2, November 15, 2016. The section has been updated as follows:

Added New Risk:

- Less Likely: Skin and subcutaneous tissue disorders Other (Sweet's Syndrome)
- <u>Rare but Serious:</u> Immune system disorders Other (GVHD in the setting of allotransplant); Myositis; Nervous system disorders - Other (encephalitis)
- <u>Also Reported on BMS-936558 Trials But With Insufficient Evidence for</u> <u>Attribution:</u> Immune system disorders - Other (autoimmune thrombotic microangiopathy)

Increase in Risk Attribution:

- <u>Changed to Less Likely from Rare But Serious:</u> Infusion related reaction
- <u>Changed to Rare but Serious from Also Reported on BMS-936558 Trials</u> <u>But With Insufficient Evidence for Attribution:</u> Pericarditis

Deleted Risk:

 Also Reported on BMS-936558 Trials But With Insufficient Evidence for Attribution: Alkaline phosphatase increased; Arthritis; CPK increased; Encephalitis infection; Endocrine disorders - Other (autoimmune thyroiditis); Endocrine disorders - Other (hypopituitarism); Enterocolitis; Hepatobiliary disorders - Other (autoimmune hepatitis); Investigations -Other (CRP increased); Investigations - Other (eosinophil count increased); Investigations - Other (thyroxine free increased); Investigations - Other (tri-iodothyronine free decreased); Nervous system disorders -Other (autoimmune neuropathy); Renal and urinary disorders - Other (nephritis); Respiratory failure; Respiratory, thoracic and mediastinal disorders - Other (interstitial lung disease); Respiratory, thoracic and mediastinal disorders - Other (lung infiltration); Stroke; Wheezing; White blood cell decreased

Provided Further Clarification:

 The following footnote #7 was added: "Complications including hyperacute graft-versus-host disease (GVHD), some fatal, have occurred in patients receiving allo stem cell transplant (SCT) after receiving BMS-936558 (Nivolumab, MDX-1106). These complications may occur despite



intervening therapy between receiving BMS-936558 (Nivolumab, MDX-1106) and allo-SCT."

2. Section 3.2c.1, Ipilimumab (BMS-734016, MDX-010, YERVOY®) (NSC 732442) (IND-119672): The ipilimumab adverse effects section has been replaced with Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.8, December 21, 2016. The section has been updated as follows:

Added New Risk:

 <u>Rare but</u> <u>Serious</u>: Respiratory, thoracic and mediastinal disorders - Other (bronchiolitis obliterans with organizing pneumonia)

Increase in Risk Attribution:

 <u>Changed to Rare but Serious from Also Reported on Ipilimumab Trials But</u> <u>With Insufficient Evidence for Attribution:</u> Metabolism and nutrition disorders - Other (exacerbation of pre-existing diabetes mellitus)

Decrease in Risk Attribution:

 <u>Changed to Rare but Serious from Less Likely:</u> Infections and infestations -Other (aseptic meningitis)

Provided Further Clarification:

- The following footnote #4 was added: "Complications including hyperacute graft-versus-host disease (GVHD), may occur in patients receiving allo stem cell transplant (SCT) after receiving Ipilimumab (MDX-010). These complications may occur despite intervening therapy between receiving Ipilimumab (MDX-010) and allo-SCT."
- Footnotes have been renumbered.
- 3. Section 5.2h, Sub-Study Specific Clinical/Laboratory Criteria: The eligibility criterion regarding cardiac disease has been removed from Section 5.3I and relocated to Section 5.2h. Additional suggestions regarding cardiac disease have been added.

The subsequent sections have been re-numbered accordingly.

- 4. Section 5.3I, Common Eligibility Criteria for all Sub-Studies: The eligibility criterion regarding cardiac disease has been removed from Section 5.3I and relocated to Section 5.2h. A place holder remains to keep consistency across all sub-studies.
- 5. **Section 8.2d, General Considerations:** A new section has been added to include a comment on cardiotoxic drugs.
- 6. **Sections 8.3, 8.4, 8.5, 8.6, and 8.7:** A sentence referencing the location for dose modification and management for cardiomyopathy myocarditis has been added to the beginning of each section.
- 7. Section 8.8, Dose Modification and Management for Cardiomyopathy Myocarditis: A new section on the dose modification and management for cardiomyopathy myocarditis has been added in response to the RRA.

The subsequent sections have been re-numbered accordingly.

8. **Section 9.0, Study Calendar**: Laboratory tests (Creatine phosphokinase (CPK) and Troponin) and the scans (EKG and ECHO) have been added to the pre-study, C4W7, and subsequent cycles. The associated X footnote has been added noting



the above tests are to be performed prestudy if clinically indicated (see Section 5.2) and are to be repeated every 6 weeks as clinically indicated while on treatment.

### Model Consent Forms Changes

The following section refers to changes made to the Model Consent Form. Please refer to the IRB Review Requirements section on Page 1 of this memo.

- 1. The Version Date has been updated.
- 2. **Pages 106-107** [S1400], "What possible risks...": Patients currently receiving nivolumab must be informed of the bolded changes below. The manner by which this notification takes place is at the discretion of the local institution. At a minimum, patients must be notified at their next visit and this conversation must be documented in the patient chart. The following changes have been made to the nivolumab side effects information:

### Added New Risk:

- Occasional: Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly; Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting [both terms are clinical manifestations of lab values not previously listed on the risk list]
- <u>Rare but Serious:</u> Complications associated with stem cell transplant using donor stem cells (allogeneic stem cell transplant). These complications are caused by attack of donor cells on the host organs (inducing liver, skin and gut), and can lead to death. If you are considering an allogeneic stem transplant after participating in this study, please tell your doctor that you have received BMS-936558 therapy, since the risk and severity of transplant-associated complications may be increased; Inflammation of the brain (meningitis/encephalitis), which may cause: headache, confusion, sleepiness, seizures, and stiff neck

Increase in Risk Attribution:

<u>Changed to Occasional from Rare:</u> Reaction during or following a drug infusion which may cause fever, chills, rash

Provided Further Clarification:

- Swelling and redness of the eye which may cause blurred vision with a chance of blindness is now reported as Swelling and redness of the eye
- Pain is now reported as Pain in belly and Pain or swelling of the joints
- Fluid in the body is now reported as part of 1) Lung problems (pneumonitis and pleural effusion). Symptoms may include: new or worsening cough, chest pain, shortness of breath (under Occasional); and 2) Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body (under Rare).
- Swelling of the body which may cause shortness of breath or headache, tiredness, and nerve pain is now reported as part of 1) Lung problems (pneumonitis and pleural effusion). Symptoms may include: new or worsening cough, chest pain, shortness of breath (under Occasional); 2)



Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body (under Rare); and 3) Inflammation of the brain (meningitis/encephalitis), which may cause: headache, confusion, sleepiness, seizures, and stiff neck (under Rare).

- Itching, rash, skin changes is now reported as Skin: itching; rash, blisters including inside the mouth; loss of skin pigment
- A tear or hole in the stomach that may require surgery (under Rare) is now described as Intestinal problems (colitis) that can rarely lead to tears or holes in your intestine. Signs and symptoms of colitis may include: diarrhea or increase in bowel movements, blood in your stools or dark, tarry, sticky stools, severe belly pain or tenderness (under Occasional).
- Damage to organs which may cause weakness or shortness of breath and/or cough (under Rare) is now reported as part of 1) Lung problems (pneumonitis and pleural effusion). Symptoms may include: new or worsening cough, chest pain, shortness of breath (under Occasional); 2) Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body (under Rare); and 3) Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement (under Rare).
- Visual disturbances and Swelling and pain around the eyes which may lead to vision changes and difficulty closing eyes are now reported as Visual disturbances which may cause double vision, blurred vision, or loss of vision with a chance of blindness
- Muscle pain and/or weakness with dark red urine and Muscle weakness are now reported as Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine
- Confusion, Abnormal movement of the facial muscles, Weakness and paralysis, and Numbness, tingling or pain of the arms and legs are now reported as Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement.
- Kidney damage which may require dialysis is now reported as Kidney problems, including nephritis and kidney failure requiring dialysis. Signs of kidney problems may include: decrease in the amount of urine, blood in your urine, ankle swelling.
- The following statement was added (under Occasional and Rare): "BMS-936558 may cause your immune system to attack normal organs and cause side effects in many parts of the body."
- 3. **Pages 108-110 [S1400]], "What possible risks...":** Patients currently receiving ipilimumab **must** be informed of the bolded changes below. The manner by which this notification takes place is at the discretion of the local institution. At a minimum, patients must be notified at their next visit and this conversation must be documented in the patient chart. The following changes have been made to the ipilimumab side effects information:

### Added New Risk:

<u>Occasional</u>: Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness



or fainting [the term above is a clinical manifestation of lab values not previously listed on the risk list]

### Increase in Risk Attribution:

• <u>Changed to Rare from Also Reported on Ipilimumab Trials But With</u> <u>Insufficient Evidence for Attribution (i.e. added to risk profile)</u>: A condition with high blood sugar which leads to tiredness, frequent urination, excessive thirst, headache, nausea and vomiting, and can result in coma

Provided Further Clarification:

- Rash (under Common); Itching, Hives, Rash which may cause fever and swollen, red, painful bumps in the skin (under Occasional); and Severe skin rash with blisters and peeling which can involve mouth and other parts of the body (under Rare) are now reported as Skin: itching; rash, blisters including inside the mouth (can be severe); hives (under Common).
- Pain is now reported as Pain in belly and Pain or swelling of the joints.
- Constipation (under Occasional) is now reported as Blockage of the bowels which may cause constipation (under Rare).
- Swelling of the body which may cause shortness of breath is now reported as part of 1) Lung problems (pneumonitis). Symptoms may include: new or worsening cough, chest pain, shortness of breath (under Occasional); 2) Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine (under Occasional); 3) Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly (under Occasional); 4) Swelling of the brain which may cause headache, blurred vision, stiff neck, and/or confusion (under Rare); and 5) Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body (under Rare).
- Chills and Reaction during or following infusion of the drug are now reported as Reaction during or following a drug infusion which may cause fever, chills, rash.
- Damage to organs leading to prolonged hospitalization is now reported as part of 1) Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine; 2) Lung problems (pneumonitis). Symptoms may include: new or worsening cough, chest pain, shortness of breath; and 3) Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly.
- Difficulty eating, Abnormal movement of the facial muscles, and Weakness and paralysis are now reported as Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement.
- Kidney damage which may require dialysis is now reported as Kidney problems, including nephritis and kidney failure requiring dialysis. Signs of kidney problems may include: decrease in the amount of urine, blood in your urine, ankle swelling.
- A tear or hole in the stomach that may require surgery (under Rare) is now reported as Intestinal problems (colitis) that can rarely lead to tears or holes in your intestine. Signs and symptoms of colitis may include: diarrhea or increase in bowel movements, blood in your stools or dark, tarry, sticky stools, severe belly pain or tenderness (under Occasional).



- Damage to organs in the body when donor cells attack host organs which may cause yellowing of eyes and skin, or dry skin is now reported as Complications associated with stem cell transplant using donor stem cells (allogeneic stem cell transplant). These complications are caused by attack of donor cells on the host organs (inducing liver, skin and gut), and can lead to death. If you are considering an allogeneic stem transplant after participating in this study, please tell your doctor that you have received ipilimumab therapy, since the risk and severity of transplantassociated complications may be increased.
- Headache is now reported as part of Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting.
- The following statement was added (under Common, Occasional, and Rare): "Ipilimumab may cause your immune system to attack normal organs and cause side effects in many parts of the body."

[Note: Sites should seek an updated investigator brochure as required by site's IRB of record. The Investigator's brochure is available through the CTSU website. Complete the CTSU Request for Clinical Brochure form located under LPO Documents – Pharmacy Forms or by clicking on the study link. Complete and return to <u>ctsucontact@westat.com</u>].

An entire replacement protocol is attached. Please discard any previous versions of the protocol and attach this memorandum to the front of your copy of **S1400**.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: **PROTOCOL & INFORMATION OFFICE** Hossein Borghaei, D.O. Corey J. Langer, M.D. James L. Wade III, M.D. Martin J. Edelman, M.D. Kathy S. Albain, M.D. Charu Aggarwal, M.D., M.P. Primo N. Lara, Jr., M.D. Scott Gettinger, M.D. Lyudmila A. Bazhenova, M.D. Taofeek K. Owonikoko, M.D., Ph.D. MSCR Lauren A. Byers, M.D. Mary Redman, Ph.D. Katherine Griffin, M.S. James Moon, M.S. Jieling Miao, M.S. Louise Highleyman Krystle Pagarigan Sarah Basse MedImmune, LLC./ AstraZeneca Genentech, Inc. Pfizer, Inc. **Bristol Myers Squib** Medivation. Inc. / Pfizer Foundation Medicine Inc. TRIAD Nationwide



DEPARTMENT OF HEALTH & HUMAN SERVICES



Public Health Service

National Institutes of Health National Cancer Institute Bethesda, Maryland 20892

# **Action Letter**

DATE: February 1, 2017

- **FROM:** Howard Streicher, MD, Medical Officer, IDB, CTEP, DCTD, NCI James Zwiebel, MD, Branch Chief, IDB, CTEP, DCTD, NCI Meg Mooney, MD, Branch Chief, CIB, CTEP, DCTD, NCI
- **SUBJECT: CONFIDENTIAL COMMUNICATION** Action Letter for Ipilimumab (MDX-010, NSCs 732442 and 720801)
- **TO:** Investigators for CTEP-supported Studies Involving Ipilimumab (MDX-010, NSCs 732442 and 720801)

The purpose of this Action Letter is to alert patients and investigators in studies conducted by the Cancer Therapy Evaluation Program (CTEP), National Cancer Institute (NCI), of new and/or modified risk information associated with ipilimumab, and to request all trials with ipilimumab be amended to reflect these changes. You are receiving this letter because you are conducting a CTEP-sponsored trial that includes ipilimumab. See the accompanying list of CTEP trials with ipilimumab.

In response to the new/modified risk information CTEP is requiring that all trials with ipilimumab be amended to reflect this new information. Detailed description of the new/modified risk(s) as well as detailed instructions regarding amendment requirements are described in this Action Letter. **Amendments are due to the Protocol and Information Office (PIO) at <u>PIO@CTEP.NCI.NIH.GOV</u> by 5 PM ET on February 15, 2017 or as required based on protocol status (see the** *General Actions Required Based on Protocol Status* **section). The cover letter for the submitted amendment should state that it is being submitted in response to an Action Letter from Dr. Howard Streicher (streicherh@ctep.nci.nih.gov). Failure to respond in a timely fashion may result in suspension of the Principal Investigator or permanent study closure.** 

After review of all the available data, CTEP believes that the new and/or modified risk information does <u>NOT</u> significantly alter the risk-benefit profile for patients in the study since ipilimumab is already known to cause serious adverse events and this new risk information does not change the overall weight given to risks versus benefits for patients in the study. CTEP considers all the proposed protocol and informed consent changes for studies affected by this Action Letter to be minor. Therefore, under the provisions of Department of Health and Human Services regulations for the protection of human subjects at 45 CFR 46.110, a protocol amendment that includes this new information can undergo expedited review if the Institutional Review Board (IRB) Chair (or other experienced IRB member designated to conduct expedited review by the Chair) concurs that the changes are minor. Additional information from the Office of Human Research Protections (OHRP) regarding this process is available at: <u>http://www.hhs.gov/ohrp/policy/Correspondence/nci200870929.html</u>.

The following section, *Specific Instruction*, includes background information on the risk(s), any risk mitigation strategies, and amendment requirements. The revised Comprehensive Adverse Events and Potential Risks (CAEPR) list (Attachment 1) and Informed Consent Document (ICD) risk information (Attachment 2) are also attached. Action Letter general instructions as well as instructions regarding amendment preparation (if a

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CTEP-approved amendment does not already accompany this Action Letter) are included in Attachment 3. You MUST follow the instructions outlined in Attachment 3.

### **SPECIFIC INSTRUCTION**

### Background

On August 30, 2016, the FDA requested that CTEP 1) revise the ICD for all clinical trials that are investigating the use of ipilimumab and BMS-936558 (nivolumab) and ipilimumab to include the event of myocarditis, and 2) revise all protocols investigating ipilimumab and nivolumab and ipilimumab to include additional monitoring and management for myocarditis.

As part of Good Clinical Practice, CTEP reviews each CAEPR list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with ipilimumab.

### **Risk Mitigation Plan**

• Protocols will be revised to provide more specific guidelines for cardiac toxicities.

### Detailed Description of Required Protocol Changes for the Amendment/ Sample Change Memo Template

1) <u>New Protocol Amendment/Version Date Included on the Title/Cover Page per Operations Office Policy:</u>

Protocol Cover Page: Page Number(s): \_\_\_\_\_\_ Version Date: \_\_\_\_\_\_

- 2) <u>Specific Protocol Revisions to Address Risk Mitigation Plan: (insert section and page # as appropriate)</u>
  - Provide more specific guidelines for cardiac toxicities, including the stipulations listed below:
    - Add on study evaluation of cardiac function including EKG and ECHO cardiogram for any patients with a history of CHF or at risk because of underlying cardiovascular disease or exposure to cardiotoxic drugs as clinically indicated.
    - For patients with evidence of CHF, MI, cardiomyopathy, or myositis cardiac evaluation including lab tests and cardiology consultations as clinically indicated including EKG, CPK, troponin, ECHO cardiogram.
    - Drug modification table for cardiomyopathy myocarditis should be included in the appropriate section
      - Drug will be held for grade 2 cardiac dysfunction pending evaluation
      - Drug will be permanently discontinued for grade 3 or 4 cardiac dysfunction and grade 2 events that do not recover to baseline or that reoccur
      - Treatment with steroids as clinically indicated
      - Add the table as follows in the treatment modification and AE management section

Cardiac *	Management/Next Dose for BMS-936558 (Nivolumab) + Ipilimumab Cardiac Toxicities
≤ Grade 1	Hold dose pending evaluation and observation.** Evaluate for signs and symptoms of CHF, ischemia, arrhythmia or myositis. Obtain history EKG, CK (for concomitant myositis), CK-MB. Repeat troponin, CK and EKG 2-3 days. If troponin and labs normalize may resume therapy. If labs worsen or symptoms develop then treat as below. Hold pending evaluation.

Grade <u>&gt;</u> 2 with suspected myocarditis	Hold dose.** Admit to hospital. Cardiology consult. Rule out MI and other causes of cardiac disease. Cardiac Monitoring. Cardiac Echo. Consider cardiac MRI and cardiac biopsy. Initiate high dose methylprednisolone. If no improvement within 24 hours, add either infliximab, ATG or tacrolimus. Consult algorithm for more details. Resume therapy if there is a return to baseline and myocarditis is excluded or considered unlikely.	
Grade ≥2 with confirmed myocarditis	Off protocol therapy. Admit to CCU (consider transfer to nearest Cardiac Transplant Unit). Treat as above. Consider high dose methylprednisolone. Add ATG or tacrolimus if no improvement. Off treatment.	
*Including CHF, LV systolic dysfunction, Myocarditis, CPK, and troponin **Patients with evidence of myositis without myocarditis may be treated according as "other event" Note: The optimal treatment regimen for immune mediated myocarditis has not been established. Since this toxicity has caused patient deaths, an aggressive approach is recommended.		

### 3) <u>Revision of the Protocol CAEPR:</u>

Protocol Section(s) for Insertion of Revised CAEPR (Version 2.8, December 21, 2016): \_\_\_\_\_ Page Number(s): \_\_\_\_\_

- Added New Risk:
  - <u>Rare but Serious:</u> Respiratory, thoracic and mediastinal disorders Other (bronchiolitis obliterans with organizing pneumonia)
- Increase in Risk Attribution:
  - <u>Changed to Rare but Serious from Also Reported on Ipilimumab Trials But With Insufficient</u> <u>Evidence for Attribution:</u> Metabolism and nutrition disorders - Other (exacerbation of pre-existing diabetes mellitus)
- Decrease in Risk Attribution:
  - <u>Changed to Rare but Serious from Less Likely:</u> Infections and infestations Other (aseptic meningitis)
- <u>Provided Further Clarification:</u>
  - The following footnote #4 was added: "Complications including hyperacute graft-versus-host disease (GVHD), may occur in patients receiving allo stem cell transplant (SCT) after receiving Ipilimumab (MDX-010). These complications may occur despite intervening therapy between receiving Ipilimumab (MDX-010) and allo-SCT."
  - Footnotes have been renumbered.

<u>PLEASE NOTE</u>: The specific detailed changes listed here compare the new revised CAEPR Version 2.8, and associated risk information for the ICD, to the most recent CAEPR Version 2.7. If your trial contains an older CAEPR version (i.e., does <u>NOT</u> currently contain CAEPR Version 2.7), you <u>MUST</u> include a description of any additional changes resulting from migration from the older CAEPR version.

### 4) <u>Revision of the ICD as Specified Below:</u>

The terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed form. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the ICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo.

- Added New Risk:
  - <u>Occasional</u>: Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting [the term above is a clinical manifestation of lab values not previously listed on the risk list]
- Increase in Risk Attribution:
  - <u>Changed to Rare from Also Reported on Ipilimumab Trials But With Insufficient Evidence for Attribution (i.e. added to risk profile):</u> A condition with high blood sugar which leads to tiredness, frequent urination, excessive thirst, headache, nausea and vomiting, and can result in coma
- <u>Provided Further Clarification:</u>
  - Rash (under Common); Itching, Hives, Rash which may cause fever and swollen, red, painful bumps in the skin (under Occasional); and Severe skin rash with blisters and peeling which can involve mouth and other parts of the body (under Rare) are now reported as Skin: itching; rash, blisters including inside the mouth (can be severe); hives (under Common).
  - Pain is now reported as Pain in belly and Pain or swelling of the joints.
  - Constipation (under Occasional) is now reported as Blockage of the bowels which may cause constipation (under Rare).
  - Swelling of the body which may cause shortness of breath is now reported as part of 1) Lung problems (pneumonitis). Symptoms may include: new or worsening cough, chest pain, shortness of breath (under Occasional); 2) Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine (under Occasional); 3) Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly (under Occasional); 4) Swelling of the brain which may cause headache, blurred vision, stiff neck, and/or confusion (under Rare); and 5) Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body (under Rare).
  - Chills and Reaction during or following infusion of the drug are now reported as Reaction during or following a drug infusion which may cause fever, chills, rash.
  - Damage to organs leading to prolonged hospitalization is now reported as part of 1) Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine; 2) Lung problems (pneumonitis). Symptoms may include: new or worsening cough, chest pain, shortness of breath; and 3) Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly.

- Difficulty eating, Abnormal movement of the facial muscles, and Weakness and paralysis are now reported as Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement.
- Kidney damage which may require dialysis is now reported as Kidney problems, including nephritis and kidney failure requiring dialysis. Signs of kidney problems may include: decrease in the amount of urine, blood in your urine, ankle swelling.
- A tear or hole in the stomach that may require surgery (under Rare) is now reported as Intestinal problems (colitis) that can rarely lead to tears or holes in your intestine. Signs and symptoms of colitis may include: diarrhea or increase in bowel movements, blood in your stools or dark, tarry, sticky stools, severe belly pain or tenderness (under Occasional).
- Damage to organs in the body when donor cells attack host organs which may cause yellowing of eyes and skin, or dry skin is now reported as Complications associated with stem cell transplant using donor stem cells (allogeneic stem cell transplant). These complications are caused by attack of donor cells on the host organs (inducing liver, skin and gut), and can lead to death. If you are considering an allogeneic stem transplant after participating in this study, please tell your doctor that you have received ipilimumab therapy, since the risk and severity of transplant-associated complications may be increased.
- Headache is now reported as part of Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting.
- The following statement was added (under Common, Occasional, and Rare): "Ipilimumab may cause your immune system to attack normal organs and cause side effects in many parts of the body."

<u>PLEASE NOTE</u>: The potential risks listed in the CAEPR whose relationship to ipilimumab is still undetermined are not required by CTEP to be described in the ICD; however, they may be communicated to patients according to local IRB requirements.

### Attachment 1: Revised Ipilimumab CAEPR – Version 2.8, December 21, 2016

### Comprehensive Adverse Events and Potential Risks list (CAEPR) for Ipilimumab (MDX-010, NSCs 732442 and 720801)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' <a href="http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf">http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf</a> for further clarification. *Frequency is provided based on 2678 patients*. Below is the CAEPR for Ipilimumab (MDX-010).

**NOTE**: Report AEs on the SPEER <u>**ONLY IF**</u> they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

			Version 2.8, December 21, 2016
Adverse Events with Possible Relationship to Ipilimumab (MDX-010) (CTCAE 4.0 Term) [n= 2678]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
BLOOD AND LYMP	HATIC SYSTEM DISORDERS		
		Blood and lymphatic system disorders - Other (acquired hemophilia)	
CARDIAC DISORDE	RS		
	Atrial fibrillation		
		Myocarditis <sup>2</sup>	
EAR AND LABYRIN	TH DISORDERS		
	Hearing impaired		
ENDOCRINE DISOR	DERS		
	Adrenal insufficiency <sup>2</sup>		
	Endocrine disorders - Other (hypopituitarism/hypophysitis) <sup>2</sup>		
	Endocrine disorders - Other (testosterone deficiency) <sup>2</sup>		
	Hyperthyroidism <sup>2</sup>		
	Hypothyroidism <sup>2</sup>		
EYE DISORDERS			
	Eye disorders - Other (episcleritis) <sup>2</sup>		
	Uveitis <sup>2</sup>		
GASTROINTESTINA	AL DISORDERS		
	Abdominal pain		
	Colitis <sup>2</sup>		Colitis (Gr 3)
		Colonic perforation <sup>3</sup>	
	Constipation		
Diarrhea			Diarrhea (Gr 3)
	Enterocolitis		

	Specific Protocol Exceptions to Expedited Reporting (SPEER)		
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
	Esophagitis		
		Ileus	
Nausea			Nausea (Gr 3)
	Pancreatitis <sup>2</sup>		
	Vomiting		
GENERAL DISORD	ERS AND ADMINISTRATION SITE	CONDITIONS	
	Chills		
Fatigue			Fatigue (Gr 3)
	Fever		Fever (Gr 2)
	Infusion related reaction		
		Multi-organ failure	
HEPATOBILIARY			
	Hepatobiliary disorders - Other (hepatitis) <sup>2</sup>		
IMMUNE SYSTEM	DISORDERS		
	Autoimmune disorder <sup>2</sup>		
		Immune system disorders - Other (GVHD in the setting of allotransplant) <sup>4</sup>	
INFECTIONS AND	INFESTATIONS		
		Infections and infestations - Other (aseptic meningitis) <sup>2</sup>	
INVESTIGATIONS			
	Alanine aminotransferase increased		
	Aspartate aminotransferase increased		
	Neutrophil count decreased		
METABOLISM AND N	NUTRITION DISORDERS		
	Anorexia		
	Dehydration		
	Hyperglycemia	Metabolism and nutrition disorders - Other (exacerbation of pre-existing diabetes mellitus)	
MUSCULOSKELET	AL AND CONNECTIVE TISSUE DIS	ORDERS	
	Arthralgia		
	Arthritis		
	Musculoskeletal and connective tissue disorder - Other (polymyositis) <sup>2</sup>		
NERVOUS SYSTEM			
	Facial nerve disorder		
	Headache		
	Nervous system disorders - Other (Guillain-Barre syndrome) <sup>2</sup>		
	Nervous system disorders - Other (myasthenia gravis) <sup>2</sup>		
	Trigeminal nerve disorder		

Adverse Events with Possible Relationship to Ipilimumab (MDX-010) (CTCAE 4.0 Term) [n= 2678]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
RENAL AND URINA	RY DISORDERS		
	Acute kidney injury		
	Renal and urinary disorders - Other (granulomatous tubulointerstitial nephritis)		
RESPIRATORY, THO	DRACIC AND MEDIASTINAL DISOR	RDERS	
	Pneumonitis		
		Respiratory, thoracic and mediastinal disorders - Other (bronchiolitis obliterans with organizing pneumonia)	
SKIN AND SUBCUT	ANEOUS TISSUE DISORDERS	-	
		Erythema multiforme	
	Pruritus		Pruritus (Gr 3)
Rash maculo-papular			Rash maculo-papular (Gr 3)
	Skin and subcutaneous disorders - Other (Sweet's Syndrome)		
		Stevens-Johnson syndrome	
		Toxic epidermal necrolysis	
	Urticaria		
VASCULAR DISORE	DERS		
	Hypotension		

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV</u>. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.

<sup>2</sup>Ipilimumab can result in severe and fatal immune-mediated adverse events probably due to T-cell activation and proliferation. These can include (but are not limited to) autoimmune hemolytic anemia, acquired anti-factor VIII immune response, autoimmune aseptic meningitis, autoimmune hepatitis, autoimmune thyroiditis, hepatic failure, pure red cell aplasia, pancreatitis, ulcerative and hemorrhagic colitis, endocrine disorders (e.g., autoimmune thyroiditis, hyperthyroidism, hypothyroidism, autoimmune hypophysitis/hypopituitarism, and adrenal insufficiency), ocular manifestations (e.g., uveitis, iritis, conjunctivitis, blepharitis, and episcleritis), sarcoid granuloma, myasthenia gravis, polymyositis, and Guillain-Barre syndrome. The majority of these reactions manifested early during treatment; however, a minority occurred weeks to months after discontinuation of ipilimumab especially with the initiation of additional treatments.

<sup>3</sup>Late bowel perforations have been noted in patients receiving MDX-010 (ipilimumab) in association with subsequent IL-2 therapy.

<sup>4</sup>Complications including hyperacute graft-versus-host disease (GVHD), may occur in patients receiving allo stem cell transplant (SCT) after receiving Ipilimumab (MDX-010). These complications may occur despite intervening therapy between receiving Ipilimumab (MDX-010) and allo-SCT.

<sup>5</sup>In rare cases diplopia (double vision) has occurred as a result of muscle weakness (Myasthenia gravis).

<sup>6</sup>Gastrointestinal hemorrhage includes Anal hemorrhage, Cecal hemorrhage, Colonic hemorrhage, Duodenal hemorrhage, Esophageal hemorrhage, Gastric hemorrhage, Hemorrhoidal hemorrhage, Ileal hemorrhage, Intra-abdominal hemorrhage, Jejunal hemorrhage, Lower gastrointestinal hemorrhage, Oral hemorrhage,

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Pancreatic hemorrhage, Rectal hemorrhage, Retroperitoneal hemorrhage, and Upper gastrointestinal hemorrhage under the GASTROINTESTINAL DISORDERS SOC.

<sup>7</sup>Infection includes all 75 sites of infection under the INFECTIONS AND INFESTATIONS SOC.

Adverse events reported on Ipilimumab (MDX-010) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that Ipilimumab (MDX-010) caused the adverse event:

**BLOOD AND LYMPHATIC SYSTEM DISORDERS** - Anemia; Blood and lymphatic system disorders - Other (pure red cell aplasia)<sup>2</sup>; Febrile neutropenia

CARDIAC DISORDERS - Conduction disorder; Restrictive cardiomyopathy

**EYE DISORDERS** - Extraocular muscle paresis<sup>5</sup>; Eye disorders - Other (retinal pigment changes)

GASTROINTESTINAL DISORDERS - Dyspepsia; Dysphagia; Gastrointestinal hemorrhage<sup>6</sup>

GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS - Flu like symptoms; Non-cardiac chest pain

HEPATOBILIARY DISORDERS - Hepatic failure<sup>2</sup>

**IMMUNE SYSTEM DISORDERS** - Allergic reaction

INFECTIONS AND INFESTATIONS - Infection<sup>7</sup>

**INVESTIGATIONS** - Creatinine increased; Investigations - Other (rheumatoid factor); Lipase increased; Platelet count decreased; Serum amylase increased; Weight loss; White blood cell decreased

**MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS** - Back pain; Joint range of motion decreased; Myalgia; Pain in extremity

NEOPLASMS BENIGN, MALIGNANT AND UNSPECIFIED (INCL CYSTS AND POLYPS) - Tumor pain NERVOUS SYSTEM DISORDERS - Dizziness; Dysphasia; Ischemia cerebrovascular; Peripheral motor neuropathy; Peripheral sensory neuropathy: Seizure

PSYCHIATRIC DISORDERS - Anxiety; Confusion; Depression; Insomnia

**RENAL AND URINARY DISORDERS** - Proteinuria

**RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS** - Allergic rhinitis; Cough; Dyspnea; Laryngospasm

SKIN AND SUBCUTANEOUS TISSUE DISORDERS - Alopecia, Dry skin; Hyperhidrosis; Skin hypopigmentation VASCULAR DISORDERS - Flushing; Hypertension; Vascular disorders - Other (temporal arteritis)

**Note**: Ipilimumab (MDX-010) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

### Attachment 2: Revised ICD Section(s) for Ipilimumab

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed format. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the ICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. Please insert this condensed risk profile as the Table of Possible Side Effects for ipilimumab in your ICD.

### Risk Profile for Ipilimumab (CAEPR Version 2.8, December 21, 2016)

### **Special precautions**

Side effects of ipilimumab may happen anytime during treatment or even after your treatment has ended. Some of these problems may happen more often when ipilimumab is used in combination with BMS-936558 (nivolumab). Call or see your healthcare provider right away if you develop any problems listed below or the symptoms get worse.

### **COMMON, SOME MAY BE SERIOUS**

In 100 people receiving ipilimumab, more than 20 and up to 100 may have:

- Diarrhea, nausea
- Tiredness

Ipilimumab may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

• Skin: itching; rash, blisters including inside the mouth (can be severe); hives

### OCCASIONAL, SOME MAY BE SERIOUS

In 100 people receiving ipilimumab, from 4 to 20 may have:

- Abnormal heartbeat
- Hearing loss
- Swelling and redness of the eye
- Pain in belly
- Difficulty swallowing, vomiting, loss of appetite
- Fever
- Dehydration
- Pain or swelling of the joints
- Reaction during or following a drug infusion which may cause fever, chills, rash
- Low blood pressure which may cause feeling faint

Ipilimumab may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

- Lung problems (pneumonitis). Symptoms may include: new or worsening cough, chest pain, shortness of breath.
- Intestinal problems (colitis) that can rarely lead to tears or holes in your intestine. Signs and symptoms of colitis may include: diarrhea or increase in bowel movements, blood in your stools or dark, tarry, sticky stools, severe belly pain or tenderness.
- Kidney problems, including nephritis and kidney failure requiring dialysis. Signs of kidney problems may include: decrease in the amount of urine, blood in your urine, ankle swelling.
- Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine.
- Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement.
- Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly.
- Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting.

### RARE, AND SERIOUS

In 100 people receiving ipilimumab, 3 or fewer may have:

- Bleeding
- Blockage of the bowels which may cause constipation
- Swelling of the brain which may cause headache, blurred vision, stiff neck, and/or confusion

Ipilimumab may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

- A condition with high blood sugar which leads to tiredness, frequent urination, excessive thirst, headache, nausea and vomiting, and can result in coma
- Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body.
- Complications associated with stem cell transplant using donor stem cells (allogeneic stem cell transplant). These complications are caused by attack of donor cells on the host organs (inducing liver, skin and gut), and can lead to death. If you are considering an allogeneic stem transplant after participating in this study, please tell your doctor that you have received ipilimumab therapy, since the risk and severity of transplant-associated complications may be increased.

### Attachment 3: Action Letter GENERAL INSTRUCTIONS

- 1. Distribute this Action Letter (and any accompanying CTEP-approved amendment) to all participating investigators and IRBs within 2 working days. For National Clinical Trials Network (NCTN) studies, please follow instructions from your Operations office. For sites participating in the NCI Central-IRB (CIRB) Initiative, CTEP has provided a copy of this Action Letter to the CIRB if the Action Letter affects any studies under CIRB review.
- 2. Accrual of new patients must be suspended until the IRB of record has reviewed and approved a CTEPapproved amendment created in response to this Action Letter. This amendment can undergo expedited approval at the discretion of the IRB Chair/designee as explained on the first page of the Action Letter.
- 3. **Patients currently on study may continue on study provided they are informed of the new and/or modified risk information.** This information should be communicated to patients already enrolled on study without waiting for IRB review/approval since this information represents a significant new finding(s) that developed during the course of the research that may relate to a patient's willingness to continue participation and per the Office for Human Research Protections, the regulations do not require IRB review and approval of statements describing such significant new findings before they are provided to already enrolled patients. Documentation of their informed consent should be carried out according to local IRB requirements.
- 4. Save a copy of the Action Letter (and any CTEP approval letter for an accompanying amendment) for your records.

### INSTRUCTIONS FOR PREPARATION OF AN AMENDMENT IN RESPONSE TO THIS Action Letter (if a CTEP-Approved amendment for your trial does <u>not</u> already accompany the Action Letter) General Instructions on Amendment Preparation:

- 1. Instructions regarding the due date for an amendment and where to send it are included on the first page of this Action Letter. The Clinical Trials Operations Offices may use the *Detailed Description of Required Protocol Changes* section in this Action Letter as the template for their Change Memo; however, it is not required if an Operations Office prefers to use its own Change Memo.
- 2. If any of the NCI-required changes are not applicable for your trial (i.e., already appear in your protocol), note this in your Change Memo.
- 3. The ICD changes include CTEP's suggested lay terms for each adverse event identified in the CAEPR. You may substitute different lay terms for each concept if appropriate for your patient population. If you have chosen to reformat and/or reword the risk profile in any way, please state, "The risk profile has been modified" in the cover memo.

### **Specific Instructions on Amendment Preparation Based on Protocol Status:**

- A. Trials with a current CTEP status of "Active"
  - Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
  - The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's editorial and administrative update policy.
  - Suspend accrual of new patients until the IRB of record has reviewed and approved a CTEP-approved amendment created in response to this Action Letter.

- B. <u>Trials with a current status of "Approved", "Temporarily Closed to Accrual and Treatment", or</u> <u>"Temporarily Closed to Accrual</u>"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter in the next revised protocol draft submitted to CTEP. The protocol amendment must be submitted and approved by CTEP <u>before</u> the trial can be activated or re-opened.
  - You may include additional non-Action Letter related changes (any type) in your amendment response.
- C. Trials with a current CTEP status of "In Review"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter. These changes must be included in the next revised protocol draft submitted to and approved by CTEP <u>before</u> the trial can be activated.
  - You may include additional non-Action Letter related changes (any type) in your revision response. Note the inclusion of non-Action Letter related changes may delay approval of your trial.

### D. Trials with a current CTEP status of "Closed to Accrual"

### If your trial is under a CTEP-held IND:

- Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
- The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy.

### If your trial is NOT under a CTEP-held IND:

- If Action Letter INCLUDES information that impacts patient care (e.g., new/adjusted dose modifications or special monitoring for patient population at risk) An amendment is required. Review and follow <u>ALL</u> the instructions outlined in this Action Letter. The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy.
  - If Action Letter does NOT INCLUDE information that impacts patient care Amendment is typically NOT required.

### E. <u>Trials with a current CTEP status of "Closed to Accrual and Treatment" or "Complete"</u>

• Amendment is not required. This information is being sent for informational purposes only. You may follow local IRB or Operations Office procedures and requirements.

DEPARTMENT OF HEALTH & HUMAN SERVICES



Public Health Service

National Institutes of Health National Cancer Institute Bethesda, Maryland 20892

# **Action Letter**

DATE: February 1, 2017

- **FROM:** Howard Streicher, MD, Medical Officer, IDB, CTEP, DCTD, NCI James Zwiebel, MD, Branch Chief, IDB, CTEP, DCTD, NCI Meg Mooney, MD, Branch Chief, CIB, CTEP, DCTD, NCI
- SUBJECT: CONFIDENTIAL COMMUNICATION Action Letter for BMS-936558 (Nivolumab, MDX-1106, NSC 748726)
- **TO:** Investigators for CTEP-supported Studies Involving BMS-936558 (Nivolumab, MDX-1106, NSC 748726)

The purpose of this Action Letter is to alert patients and investigators in studies conducted by the Cancer Therapy Evaluation Program (CTEP), National Cancer Institute (NCI), of new and/or modified risk information associated with BMS-936558, and to request all trials with BMS-936558 be amended to reflect these changes. You are receiving this letter because you are conducting a CTEP-sponsored trial that includes BMS-936558. See the accompanying list of CTEP trials with BMS-936558.

In response to the new/modified risk information CTEP is requiring that all trials with BMS-936558 be amended to reflect this new information. Detailed description of the new/modified risk(s) as well as detailed instructions regarding amendment requirements are described in this Action Letter. Amendments are due to the Protocol and Information Office (PIO) at <u>PIO@CTEP.NCI.NIH.GOV</u> by 5 PM ET on February 15, 2017 or as required based on protocol status (see the *General Actions Required Based on Protocol Status* section). The cover letter for the submitted amendment should state that it is being submitted in response to an Action Letter from Dr. Howard Streicher (streicherh@ctep.nci.nih.gov). Failure to respond in a timely fashion may result in suspension of the Principal Investigator or permanent study closure.

After review of all the available data, CTEP believes that the new and/or modified risk information does <u>NOT</u> significantly alter the risk-benefit profile for patients in the study since BMS-936558 is already known to cause serious adverse events and this new risk information does not change the overall weight given to risks versus benefits for patients in the study. CTEP considers all the proposed protocol and informed consent changes for studies affected by this Action Letter to be minor. Therefore, under the provisions of Department of Health and Human Services regulations for the protection of human subjects at 45 CFR 46.110, a protocol amendment that includes this new information can undergo expedited review if the Institutional Review Board (IRB) Chair (or other experienced IRB member designated to conduct expedited review by the Chair) concurs that the changes are minor. Additional information from the Office of Human Research Protections (OHRP) regarding this process is available at: <u>http://www.hhs.gov/ohrp/policy/Correspondence/nci200870929.html</u>.

The following section, *Specific Instruction*, includes background information on the risk(s), any risk mitigation strategies, and amendment requirements. The revised Comprehensive Adverse Events and Potential Risks (CAEPR) list (Attachment 1) and Informed Consent Document (ICD) risk information (Attachment 2) are also attached. Action Letter general instructions as well as instructions regarding amendment preparation (if a

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CTEP-approved amendment does not already accompany this Action Letter) are included in Attachment 3. You MUST follow the instructions outlined in Attachment 3.

### **SPECIFIC INSTRUCTION**

### Background

On August 30, 2016, the FDA requested that CTEP 1) revise the ICD for all clinical trials that are investigating the use of ipilimumab and BMS-936558 (nivolumab) and ipilimumab to include the event of myocarditis, and 2) revise all protocols investigating ipilimumab and BMS-936558 and ipilimumab to include additional monitoring and management for myocarditis.

In addition, as part of Good Clinical Practice, CTEP reviews each CAEPR list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with BMS-936558.

### **Risk Mitigation Plan**

• Protocols will be revised to provide more specific guidelines for cardiac toxicities.

### Detailed Description of Required Protocol Changes for the Amendment/ Sample Change Memo Template

1) <u>New Protocol Amendment/Version Date Included on the Title/Cover Page per Operations Office Policy:</u>

Protocol Cover Page: Page Number(s): \_\_\_\_\_\_ Version Date: \_\_\_\_\_\_

- 2) <u>Specific Protocol Revisions to Address Risk Mitigation Plan: (insert section and page # as appropriate)</u>
  - Provide more specific guidelines for cardiac toxicities, including the stipulations listed below:
    - Add on study evaluation of cardiac function including EKG and ECHO cardiogram for any patients with a history of CHF or at risk because of underlying cardiovascular disease or exposure to cardiotoxic drugs as clinically indicated.
    - For patients with evidence of CHF, MI, cardiomyopathy, or myositis cardiac evaluation including lab tests and cardiology consultations as clinically indicated including EKG, CPK, troponin, ECHO cardiogram.
    - Drug modification table for cardiomyopathy myocarditis should be included in the appropriate section
      - Drug will be held for grade 2 cardiac dysfunction pending evaluation
      - Drug will be permanently discontinued for grade 3 or 4 cardiac dysfunction and grade 2 events that do not recover to baseline or that reoccur
      - Treatment with steroids as clinically indicated
      - Add the table as follows in the treatment modification and AE management section

Cardiac *	Management/Next Dose for BMS-936558 (Nivolumab) + Ipilimumab Cardiac Toxicities
≤ Grade 1	Hold dose pending evaluation and observation.** Evaluate for signs and symptoms of CHF, ischemia, arrhythmia or myositis. Obtain history EKG, CK (for concomitant myositis), CK-MB. Repeat troponin, CK and EKG 2-3 days. If troponin and labs normalize may resume therapy. If labs worsen or symptoms develop then treat as below. Hold pending evaluation

Grade <u>&gt;</u> 2 with suspected myocarditis	Hold dose.** Admit to hospital. Cardiology consult. Rule out MI and other causes of cardiac disease. Cardiac Monitoring. Cardiac Echo. Consider cardiac MRI and cardiac biopsy. Initiate high dose methylprednisolone. If no improvement within 24 hours, add either infliximab, ATG or tacrolimus. Consult algorithm for more details. Resume therapy if there is a return to baseline and myocarditis is excluded or considered unlikely.	
Grade <u>&gt;</u> 2 with confirmed myocarditis	Off protocol therapy. Admit to CCU (consider transfer to nearest Cardiac Transplant Unit). Treat as above. Consider high dose methylprednisolone Add ATG or tacrolimus if no improvement. Off treatment.	
**Patients with e "other event" Note: The optima	LV systolic dysfunction, Myocarditis, CPK, and troponin evidence of myositis without myocarditis may be treated according as I treatment regimen for immune mediated myocarditis has not been e this toxicity has caused patient deaths, an aggressive approach is	

### 3) <u>Revision of the Protocol CAEPR:</u>

Protocol Section(s) for Insertion of Revised CAEPR (Version 2.2, November 15, 2016): \_\_\_\_\_ Page Number(s): \_\_\_\_\_

- Added New Risk:
  - Less Likely: Skin and subcutaneous tissue disorders Other (Sweet's Syndrome)
  - <u>Rare but Serious:</u> Immune system disorders Other (GVHD in the setting of allotransplant); Myositis; Nervous system disorders - Other (encephalitis)
  - <u>Also Reported on BMS-936558 Trials But With Insufficient Evidence for Attribution:</u> Immune system disorders Other (autoimmune thrombotic microangiopathy)
- Increase in Risk Attribution:
  - <u>Changed to Less Likely from Rare But Serious:</u> Infusion related reaction
  - <u>Changed to Rare but Serious from Also Reported on BMS-936558 Trials But With Insufficient</u> <u>Evidence for Attribution:</u> Pericarditis
- Deleted Risk:
  - <u>Also Reported on BMS-936558 Trials But With Insufficient Evidence for Attribution:</u> Alkaline phosphatase increased; Arthritis; CPK increased; Encephalitis infection; Endocrine disorders Other (autoimmune thyroiditis); Endocrine disorders Other (hypopituitarism); Enterocolitis; Hepatobiliary disorders Other (autoimmune hepatitis); Investigations Other (CRP increased); Investigations Other (eosinophil count increased); Investigations Other (thyroxine free increased); Investigations Other (tri-iodothyronine free decreased); Nervous system disorders Other (autoimmune neuropathy); Renal and urinary disorders Other (nephritis); Respiratory failure; Respiratory, thoracic and mediastinal disorders Other (lung infiltration); Stroke; Wheezing; White blood cell decreased
- <u>Provided Further Clarification:</u>
  - The following footnote #7 was added: "Complications including hyperacute graft-versus-host disease (GVHD), some fatal, have occurred in patients receiving allo stem cell transplant (SCT) after

receiving BMS-936558 (Nivolumab, MDX-1106). These complications may occur despite intervening therapy between receiving BMS-936558 (Nivolumab, MDX-1106) and allo-SCT."

<u>PLEASE NOTE</u>: The specific detailed changes listed here compare the new revised CAEPR Version 2.2, and associated risk information for the ICD, to the most recent CAEPR Version 2.1. If your trial contains an older CAEPR version (i.e., does <u>NOT</u> currently contain CAEPR Version 2.1), you <u>MUST</u> include a description of any additional changes resulting from migration from the older CAEPR version.

### 4) <u>Revision of the ICD as Specified Below:</u>

The terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed form. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the ICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo.

- Added New Risk:
  - <u>Occasional</u>: Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly; Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting [both terms are clinical manifestations of lab values not previously listed on the risk list]
  - <u>Rare but Serious</u>: Complications associated with stem cell transplant using donor stem cells (allogeneic stem cell transplant). These complications are caused by attack of donor cells on the host organs (inducing liver, skin and gut), and can lead to death. If you are considering an allogeneic stem transplant after participating in this study, please tell your doctor that you have received BMS-936558 therapy, since the risk and severity of transplant-associated complications may be increased; Inflammation of the brain (meningitis/encephalitis), which may cause: headache, confusion, sleepiness, seizures, and stiff neck
- Increase in Risk Attribution:
  - <u>Changed to Occasional from Rare:</u> Reaction during or following a drug infusion which may cause fever, chills, rash
- <u>Provided Further Clarification:</u>
  - Swelling and redness of the eye which may cause blurred vision with a chance of blindness is now reported as Swelling and redness of the eye
  - Pain is now reported as Pain in belly and Pain or swelling of the joints
  - Fluid in the body is now reported as part of 1) Lung problems (pneumonitis and pleural effusion). Symptoms may include: new or worsening cough, chest pain, shortness of breath (under Occasional); and 2) Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body (under Rare).
  - Swelling of the body which may cause shortness of breath or headache, tiredness, and nerve pain is now reported as part of 1) Lung problems (pneumonitis and pleural effusion). Symptoms

may include: new or worsening cough, chest pain, shortness of breath (under Occasional); 2) Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body (under Rare); and 3) Inflammation of the brain (meningitis/encephalitis), which may cause: headache, confusion, sleepiness, seizures, and stiff neck (under Rare).

- Itching, rash, skin changes is now reported as Skin: itching; rash, blisters including inside the mouth; loss of skin pigment
- A tear or hole in the stomach that may require surgery (under Rare) is now described as Intestinal problems (colitis) that can rarely lead to tears or holes in your intestine. Signs and symptoms of colitis may include: diarrhea or increase in bowel movements, blood in your stools or dark, tarry, sticky stools, severe belly pain or tenderness (under Occasional).
- Damage to organs which may cause weakness or shortness of breath and/or cough (under Rare) is now reported as part of 1) Lung problems (pneumonitis and pleural effusion). Symptoms may include: new or worsening cough, chest pain, shortness of breath (under Occasional); 2) Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body (under Rare); and 3) Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement (under Rare).
- Visual disturbances and Swelling and pain around the eyes which may lead to vision changes and difficulty closing eyes are now reported as Visual disturbances which may cause double vision, blurred vision, or loss of vision with a chance of blindness
- Muscle pain and/or weakness with dark red urine and Muscle weakness are now reported as Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine
- Confusion, Abnormal movement of the facial muscles, Weakness and paralysis, and Numbness, tingling or pain of the arms and legs are now reported as Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement.
- Kidney damage which may require dialysis is now reported as Kidney problems, including nephritis and kidney failure requiring dialysis. Signs of kidney problems may include: decrease in the amount of urine, blood in your urine, ankle swelling.
- The following statement was added (under Occasional and Rare): "BMS-936558 may cause your immune system to attack normal organs and cause side effects in many parts of the body."

<u>PLEASE NOTE</u>: The potential risks listed in the CAEPR whose relationship to BMS-936558 is still undetermined are not required by CTEP to be described in the ICD; however, they may be communicated to patients according to local IRB requirements.

## Attachment 1: Revised BMS-936558 CAEPR – Version 2.2, November 15, 2016

# Comprehensive Adverse Events and Potential Risks list (CAEPR) for

### BMS-936558 (Nivolumab, MDX-1106, NSC 748726)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' <u>http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf</u> for further clarification. *Frequency is provided based on 2069 patients*. Below is the CAEPR for BMS-936558 (Nivolumab, MDX-1106).

**NOTE**: Report AEs on the SPEER <u>ONLY IF</u> they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

	Version 2.2, November 15, 2016 <sup>1</sup>		
Adverse Events with Possible Relationship to BMS-936558 (Nivolumab, MDX-1106) (CTCAE 4.0 Term) [n= 2069]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
BLOOD AND LYMPHATIC	SYSTEM DISORDERS		
	Anemia		Anemia (Gr 2)
CARDIAC DISORDERS			
		Cardiac disorders - Other (cardiomyopathy)	
		Myocarditis	
		Pericardial tamponade <sup>2</sup>	
		Pericarditis	
ENDOCRINE DISORDERS			
	Adrenal insufficiency		
	Endocrine disorders - Other (hypophysitis)		
	Hyperthyroidism		
	Hypothyroidism		
EYE DISORDERS			
		Eye disorders - Other (diplopia)	
		Eye disorders - Other (Graves ophthalmopathy)	
		Eye disorders - Other (optic neuritis retrobulbar)	
	Uveitis		
GASTROINTESTINAL DIS	ORDERS		
	Abdominal pain		Abdominal pain (Gr 2)
	Colitis		
		Colonic perforation	
	Diarrhea		Diarrhea (Gr 2)
	Dry mouth		Dry mouth (Gr 2)

Relatior	Specific Protocol Exceptions to Expedited Reporting (SPEER)		
Likely (>20%)	[n= 2069] Less Likely (<=20%)	Rare but Serious (<3%)	
	· · · · · · · · · · · · · · · · · · ·	Gastritis	
	Nausea		Nausea (Gr 2)
	Pancreatitis <sup>3</sup>		
GENERAL DISORDERS	AND ADMINISTRATION SIT	E CONDITIONS	
Fatigue			Fatigue (Gr 2)
	Fever		Fever (Gr 2)
	Infusion related reaction <sup>4</sup>		
	Injection site reaction		Injection site reaction (Gr 2)
IMMUNE SYSTEM DISC	ORDERS		
		Allergic reaction	
		Autoimmune disorder <sup>5</sup>	
		Cytokine release syndrome <sup>6</sup>	
		Immune system disorders - Other	
		(GVHD in the setting of allotransplant) <sup>7</sup>	
		Immune system disorders - Other	
		(sarcoid granuloma) <sup>5</sup>	
INVESTIGATIONS	•		
	Alanine aminotransferase increased		Alanine aminotransferase increased (Gr 2)
	Aspartate aminotransferase increased		Aspartate aminotransferase increased (Gr 2)
	Blood bilirubin increased		Blood bilirubin increased (Gr 2)
	Creatinine increased		
	Lipase increased		
	Lymphocyte count decreased		Lymphocyte count decreased (Gr 2)
	Neutrophil count decreased		
	Platelet count decreased		
	Serum amylase increased		
METABOLISM AND NU	TRITION DISORDERS		
	Anorexia		
		Hyperglycemia	Hyperglycemia (Gr 2)
		Metabolism and nutrition disorders - Other (diabetes	
		mellitus with ketoacidosis)	
MUSCULOSKELETAL	AND CONNECTIVE TISSUE D	· · · · · · · · · · · · · · · · · · ·	
WIOSCOLOSKLLLIAL F	Arthralgia		
		Musculoskeletal and connective	
		tissue disorder - Other (polymyositis)	
		Musculoskeletal and connective	
		tissue disorder - Other	
		(rhabdomyolysis)	
		Myositis	
NERVOUS SYSTEM DIS	SORDERS	1	
		Encephalopathy	
		Facial nerve disorder <sup>5</sup>	

Relationsh	Specific Protocol Exceptions to Expedited Reporting (SPEER)		
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
		Nervous system disorders - Other (demyelination myasthenic syndrome)	
		Nervous system disorders - Other (encephalitis)	
		Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup>	
		Nervous system disorders - Other (meningoencephalitis)	
		Nervous system disorders - Other (meningoradiculitis)	
		Nervous system disorders - Other (myasthenia gravis) <sup>5</sup>	
		Nervous system disorders - Other (myasthenic syndrome)	
		Peripheral motor neuropathy	
		Peripheral sensory neuropathy	
RENAL AND URINARY DI	ISORDERS		
		Acute kidney injury	
RESPIRATORY, THORACI	C AND MEDIASTINAL DIS	SORDERS	
	Pleural effusion		
	Pneumonitis		
		Respiratory, thoracic and mediastinal disorders - Other (bronchiolitis obliterans with organizing pneumonia)	
SKIN AND SUBCUTANEOUS TISSUE DISORDERS			
		Erythema multiforme	
	Pruritus		Pruritus (Gr 2)
	Rash maculo-papular		Rash maculo-papular (Gr 2)
	Skin hypopigmentation		
	Skin and subcutaneous disorders - Other (Sweet's Syndrome)		

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV</u>. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.

<sup>2</sup>Pericardial tamponade may be related to possible inflammatory reaction at tumor site.

<sup>3</sup>Pancreatitis may result in increased serum amylase and/or more frequently lipase.

<sup>4</sup>Infusion reactions, including high-grade hypersensitivity reactions which have been observed following administration of nivolumab, may manifest as fever, chills, shakes, itching, rash, hypertension or hypotension, or difficulty breathing during and immediately after administration of nivolumab.

<sup>5</sup>BMS-936558 (Nivolumab, MDX-1106) being a member of class of agents involved in the inhibition of "immune

## CONFIDENTIAL - Page 9 of 15

checkpoints", may result in severe and possibly fatal immune-mediated adverse events probably due to T-cell activation and proliferation. This may result in autoimmune disorders that can include (but are not limited to) autoimmune hemolytic anemia, acquired anti-factor VIII immune response, autoimmune aseptic meningitis, autoimmune hepatitis, autoimmune nephritis, autoimmune neuropathy, autoimmune thyroiditis, bullous pemphigoid, exacerbation of Churg-Strauss Syndrome, drug rash with eosinophilia systemic symptoms [DRESS] syndrome, facial nerve disorder (facial nerve paralysis), limbic encephalitis, hepatic failure, pure red cell aplasia, pancreatitis, ulcerative and hemorrhagic colitis, endocrine disorders (e.g., autoimmune thyroiditis, hyperthyroidism, hypothyroidism, autoimmune hypophysitis/hypopituitarism, thyrotoxicosis, and adrenal insufficiency), sarcoid granuloma, myasthenia gravis, polymyositis, and Guillain-Barre syndrome.

<sup>6</sup>Cytokine release syndrome may manifest as hemophagocytic lymphohistiocytosis with accompanying fever and pancytopenia.

<sup>7</sup>Complications including hyperacute graft-versus-host disease (GVHD), some fatal, have occurred in patients receiving allo stem cell transplant (SCT) after receiving BMS-936558 (Nivolumab, MDX-1106). These complications may occur despite intervening therapy between receiving BMS-936558 (Nivolumab, MDX-1106) and allo-SCT.

Adverse events reported on BMS-936558 (Nivolumab, MDX-1106) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that BMS-936558 (Nivolumab, MDX-1106) caused the adverse event:

**CARDIAC DISORDERS** - Atrial fibrillation; Atrioventricular block complete; Heart failure; Ventricular arrhythmia **EAR AND LABYRINTH DISORDERS** - Vestibular disorder

EYE DISORDERS - Eye disorders - Other (iridocyclitis); Optic nerve disorder

**GASTROINTESTINAL DISORDERS** - Constipation; Duodenal ulcer; Flatulence; Gastrointestinal disorders - Other (mouth sores); Mucositis oral; Vomiting

**GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS** - Chills; Edema limbs; Malaise; Pain **HEPATOBILIARY DISORDERS** - Bile duct stenosis

**IMMUNE SYSTEM DISORDERS** - Anaphylaxis; Immune system disorders - Other (autoimmune thrombotic microangiopathy); Immune system disorders - Other (limbic encephalitis)

**INFECTIONS AND INFESTATIONS** - Bronchial infection; Lung infection; Sepsis; Upper respiratory infection **INVESTIGATIONS** - GGT increased; Investigations - Other (blood LDH increased); Investigations - Other (protein total decreased); Investigations - Other (WBC count increased); Lymphocyte count increased; Weight loss

**METABOLISM AND NUTRITION DISORDERS** - Dehydration; Hyperuricemia; Hypoalbuminemia; Hypocalcemia; Hyponatremia; Hypophosphatemia

**MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS** - Back pain; Musculoskeletal and connective tissue disorder - Other (musculoskeletal pain); Musculoskeletal and connective tissue disorder - Other (polymyalgia rheumatica); Myalgia; Pain in extremity

NEOPLASMS BENIGN, MALIGNANT AND UNSPECIFIED (INCL CYSTS AND POLYPS) - Neoplasms benign, malignant and unspecified (incl cysts and polyps) - Other (histiocytic necrotizing lymphadenitis) NERVOUS SYSTEM DISORDERS - Dizziness; Headache; Intracranial hemorrhage

**PSYCHIATRIC DISORDERS** - Insomnia

**RENAL AND URINARY DISORDERS** - Hematuria; Renal and urinary disorders - Other (tubulointerstitial nephritis) **RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS** - Bronchospasm; Cough; Dyspnea; Hypoxia **SKIN AND SUBCUTANEOUS TISSUE DISORDERS** - Alopecia; Dry skin; Hyperhidrosis; Pain of skin; Periorbital edema; Photosensitivity; Rash acneiform; Skin and subcutaneous tissue disorders - Other (rosacea); Toxic epidermal necrolysis

VASCULAR DISORDERS - Flushing; Hypertension; Hypotension; Vasculitis

**Note**: BMS-936558 (Nivolumab, MDX-1106) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

## Attachment 2: Revised ICD Section(s) for BMS-936558

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed format. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the ICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. Please insert this condensed risk profile as the Table of Possible Side Effects for BMS-936558 in your ICD.

## Risk Profile for BMS-936558 (CAEPR Version 2.2, November 15, 2016)

### **Special precautions**

Side effects of BMS-936558 (nivolumab) may happen anytime during treatment or even after your treatment has ended. Some of these problems may happen more often when BMS-936558 is used in combination with ipilimumab. **Call or see your healthcare provider right away if you develop any problems listed below or the symptoms get worse.** 

### **COMMON, SOME MAY BE SERIOUS**

In 100 people receiving BMS-936558, more than 20 and up to 100 may have:

• Tiredness

## **OCCASIONAL, SOME MAY BE SERIOUS**

In 100 people receiving BMS-936558, from 4 to 20 may have:

- Anemia which may require blood transfusion
- Swelling and redness of the eye
- Pain in belly
- Diarrhea, nausea, loss of appetite
- Dry mouth
- Fever
- Swelling and redness at the site of the medication injection
- Bruising, bleeding
- Pain or swelling of the joints
- Reaction during or following a drug infusion which may cause fever, chills, rash

BMS-936558 may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

- Lung problems (pneumonitis and pleural effusion). Symptoms may include: new or worsening cough, chest pain, shortness of breath.
- Intestinal problems (colitis) that can rarely lead to tears or holes in your intestine. Signs and symptoms of colitis may include: diarrhea or increase in bowel movements, blood in your stools or dark, tarry, sticky stools, severe belly pain or tenderness.
- Skin: itching; rash, blisters including inside the mouth; loss of skin pigment
- Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly.
- Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting.

	<b>RARE, AND SERIOUS</b> In 100 people receiving BMS-936558, 3 or fewer may have:
•	Allergic reaction which may cause rash, low blood pressure, wheezing, shortness of breath, swelling of the face or throat
	558 may cause your immune system to attack normal organs and cause side effects in s of the body. These problems may include but are not limited to:
•	Visual disturbances which may cause double vision, blurred vision, or loss of vision with a chance of blindness
•	A condition with high blood sugar which leads to tiredness, frequent urination, excessive thirst, headache, nausea and vomiting, and can result in coma
•	Kidney problems, including nephritis and kidney failure requiring dialysis. Signs of kidney problems may include: decrease in the amount of urine, blood in your urine, ankle swelling.
•	Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body.
•	Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine
•	Inflammation of the brain (meningitis/encephalitis), which may cause: headache, confusion, sleepiness, seizures, and stiff neck
•	Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement.
•	Complications associated with stem cell transplant using donor stem cells (allogeneic stem cell transplant). These complications are caused by attack of donor cells on the host organs (inducing liver, skin and gut), and can lead to death. If you are
	considering an allogeneic stem transplant after participating in this study, please tell your doctor that you have received BMS-936558 therapy, since the risk and severity of transplant-associated complications may be increased.

## Attachment 3: Action Letter GENERAL INSTRUCTIONS

- 1. Distribute this Action Letter (and any accompanying CTEP-approved amendment) to all participating investigators and IRBs within 2 working days. For National Clinical Trials Network (NCTN) studies, please follow instructions from your Operations office. For sites participating in the NCI Central-IRB (CIRB) Initiative, CTEP has provided a copy of this Action Letter to the CIRB if the Action Letter affects any studies under CIRB review.
- 2. Accrual of new patients must be suspended until the IRB of record has reviewed and approved a CTEPapproved amendment created in response to this Action Letter. This amendment can undergo expedited approval at the discretion of the IRB Chair/designee as explained on the first page of the Action Letter.
- 3. **Patients currently on study may continue on study provided they are informed of the new and/or modified risk information.** This information should be communicated to patients already enrolled on study without waiting for IRB review/approval since this information represents a significant new finding(s) that developed during the course of the research that may relate to a patient's willingness to continue participation and per the Office for Human Research Protections, the regulations do not require IRB review and approval of statements describing such significant new findings before they are provided to already enrolled patients. Documentation of their informed consent should be carried out according to local IRB requirements.
- 4. Save a copy of the Action Letter (and any CTEP approval letter for an accompanying amendment) for your records.

## INSTRUCTIONS FOR PREPARATION OF AN AMENDMENT IN RESPONSE TO THIS Action Letter (if a CTEP-Approved amendment for your trial does <u>not</u> already accompany the Action Letter) General Instructions on Amendment Preparation:

- 1. Instructions regarding the due date for an amendment and where to send it are included on the first page of this Action Letter. The Clinical Trials Operations Offices may use the *Detailed Description of Required Protocol Changes* section in this Action Letter as the template for their Change Memo; however, it is not required if an Operations Office prefers to use its own Change Memo.
- 2. If any of the NCI-required changes are not applicable for your trial (i.e., already appear in your protocol), note this in your Change Memo.
- 3. The ICD changes include CTEP's suggested lay terms for each adverse event identified in the CAEPR. You may substitute different lay terms for each concept if appropriate for your patient population. If you have chosen to reformat and/or reword the risk profile in any way, please state, "The risk profile has been modified" in the cover memo.

## **Specific Instructions on Amendment Preparation Based on Protocol Status:**

- A. Trials with a current CTEP status of "Active"
  - Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
  - The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's editorial and administrative update policy.
  - Suspend accrual of new patients until the IRB of record has reviewed and approved a CTEP-approved amendment created in response to this Action Letter.

- B. <u>Trials with a current status of "Approved", "Temporarily Closed to Accrual and Treatment", or</u> <u>"Temporarily Closed to Accrual</u>"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter in the next revised protocol draft submitted to CTEP. The protocol amendment must be submitted and approved by CTEP <u>before</u> the trial can be activated or re-opened.
  - You may include additional non-Action Letter related changes (any type) in your amendment response.
- C. Trials with a current CTEP status of "In Review"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter. These changes must be included in the next revised protocol draft submitted to and approved by CTEP <u>before</u> the trial can be activated.
  - You may include additional non-Action Letter related changes (any type) in your revision response. Note the inclusion of non-Action Letter related changes may delay approval of your trial.

## D. Trials with a current CTEP status of "Closed to Accrual"

## If your trial is under a CTEP-held IND:

- Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
- The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy.

## If your trial is NOT under a CTEP-held IND:

- If Action Letter INCLUDES information that impacts patient care (e.g., new/adjusted dose modifications or special monitoring for patient population at risk) An amendment is required. Review and follow <u>ALL</u> the instructions outlined in this Action Letter. The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy.
  - If Action Letter does NOT INCLUDE information that impacts patient care Amendment is typically NOT required.

## E. <u>Trials with a current CTEP status of "Closed to Accrual and Treatment" or "Complete"</u>

• Amendment is not required. This information is being sent for informational purposes only. You may follow local IRB or Operations Office procedures and requirements.



February 1, 2017

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u> )
Charles D. Blanke, MD CHAIR	RE:	<b><u>S1400</u></b> , "Phase II/III Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer". Study Chairs: V. Papadimitrakopoulou, F.R.
3181 SW Sam Jackson Pk Rd MC: L586		Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara. <b>MEMORANDUM</b>
Portland, OR 97239 503-494-5586 503-346-8038 FAX		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>
OPERATIONS OFFICE 4201 Medical Dr		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( ) Expedited review allowed</li> <li>( √ ) No review required</li> </ul>
Suite 250 San Antonio, TX 78229		Status Change () IRB Review only
210-614-8808 210-614-0006 FAX		<ul> <li>Activation</li> <li>Closure</li> <li>Reactivation</li> </ul>
STATISTICAL CENTER		Protocol changes () Eligibility changes
1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> </ul>
206-652-2267 206-342-1616 FAX		<ul> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> </ul>
1100 Fairview Ave North M3-C102		() Other:
PO Box 19024 Seattle, WA 98109		MEMORANDUM
206-667-4623 206-667-4408 FAX	The purpos <u>S1400I</u> .	e of this memorandum is to inform sites of the following error within sub-study
SW09.019	synchronize	<b>I</b> Patient Reported Outcomes (PRO) and EQ-5D Questionnaires are to be ed with the clinical follow-up visits. Below are the correct timepoints the ires should be completed. This error will be corrected in a subsequent





The <u>**S14001**</u> Patient Reported Outcomes (PRO) Questionnaire is administered at Prestudy (within 14 days prior to <u>**S14001**</u> registration) and at Weeks 3, 5, 7, 9, 11, 13, <u>25</u> and <u>37</u>. The <u>**S14001**</u> EQ-5D Questionnaire is administered at Prestudy, Weeks 5, 7, 9, 13, <u>25</u>, <u>37</u>, and Years 1, 2, and 3.

This memorandum serves to notify the NCI and SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE





February 1, 2017 TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS FROM: SWOG Operations Office RE: IND Safety Reports for Ipilimumab (BMS-734016) **MEMORANDUM IRB Review Requirements** Full board review required Expedited review allowed V) No review required () Status Change **IRB** Review only () Activation ) Closure ) () Reactivation **Protocol changes** Eligibility changes ) Treatment / Dose Modification / Study Calendar changes () Informed Consent changes Patient notification not required () Patient notification required () Scientific / Statistical Consideration changes ) ( Specimen Submission changes ) Data Submission / Forms changes ) Editorial / Administrative changes Other:

### **MEMORANDUM**

The following new safety report has been posted regarding adverse event that occurred in association with the drug ipilimumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to<br/>the following study:Reports:S1400I<br/>S1609Lung<br/>Early TherapeuticDec. 20, 2016Mfr Rpt #BMS2016102236<br/>Dec, 23, 2016Dec. 23, 2016Mfr Rpt #BMS2016022351 FU<br/>Dec. 23, 2016Mfr Rpt #BMS2016105281<br/>Jan. 05, 2017

swog.org

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies



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 Portland, OR 97239
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 503-494-5586
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 503-346-8038 FAX
 (

**OPERATIONS OFFICE** 

**GROUP CHAIR'S OFFICE** 

Charles D. Blanke, MD

CHAIR

4201 Medical Dr Suite 250 San Antonio, TX 78229

210-614-8808 210-614-0006 FAX

#### STATISTICAL CENTER

1730 Minor Ave Suite 1900 Seattle, WA 98101

206-652-2267 206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





**GROUP CHAIR'S OFFICE** 

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Portland, OR 97239

503-346-8038 FAX

**OPERATIONS OFFICE** 

Suite 250

CHAIR

February 1, 2017 TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS FROM: SWOG Operations Office RE: IND Safety Reports for Nivolumab (BMS-936558) **MEMORANDUM IRB Review Requirements** Full board review required ) Expedited review allowed (√) No review required () Status Change **IRB** Review only ( ) Activation ) Closure ) Reactivation () Protocol changes Eligibility changes Treatment / Dose Modification / Study Calendar changes () Informed Consent changes Patient notification not required () Patient notification required () Scientific / Statistical Consideration changes () () Specimen Submission changes Data Submission / Forms changes ) Editorial / Administrative changes ) Other:

### MEMORANDUM

The following new safety report has been posted regarding adverse events that occurred in association with the drug nivolumab. Please access this safety report via the study's abstract page the safetv report link the SWOG website or on (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

> S1400I Luna S1609 Early Therapeutics

Reports:

Nov. 29, 2016 Mfr Rpt #BMS2016031762 Dec. 19, 2016 Mfr RPt #BMS2016075427 FU Dec. 20, 2016 Mfr Rpt #BMS2016102236 Dec. 20, 2016 Mfr Rpt #BMS2016105930 Dec. 20, 2016 Mfr Rpt #BMS2016106698 Dec. 23, 2016 Mfr Rpt #BMS2016022351 FU Dec. 23, 2016 Mfr Rpt #BMS2016073775 Dec. 23, 2016 Mfr Rpt #BMS2016105281 Dec. 29, 2016 Mfr Rpt #BMS2016107222 FU Dec. 29, 2016 Mfr Rpt #BMS2016109496

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Jan. 03, 2017 AE-2216731 FU Jan. 03, 2017 Mfr Rpt #BMS2016107228 FU Jan. 05, 2017 AE-2820490 Jan. 05, 2017 Mfr Rpt #BMS2016112163 Jan. 06, 2017 Mfr Rpt #BMS2016112319

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





January 15, 2017

These safety reports pertain to

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS		
	FROM:	SWOG Operations Office		
	RE:	IND Safety Reports for Ipilimumab (BMS-734016)		
		MEMORANDUM		
1		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>		
		Status Change         ( )       IRB Review only         ( )       Activation         ( )       Closure         ( )       Reactivation		
		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>		

### **MEMORANDUM**

The following new safety report has been posted regarding adverse event that occurred in association with the drug ipilimumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

the following study: Reports: **S1400I** Lung Nov. 21, 2016 Mfr Rpt #BMS2016084841 Nov. 22, 2016 Mfr Rpt #BMS2016091101 Nov. 22, 2016 Mfr Rpt #BMS2016092973 FU Dec. 01, 2016 Mfr Rpt #BMS2016085259 FU Dec. 08, 2016 Mfr Rpt #BMS20797825 FU Dec. 08, 2016 Mfr Rpt #BMS2016080089 FU Dec. 08, 2016 Mfr Rpt #BMS2016102275 Dec. 08, 2016 Mfr Rpt #BMS2016102361 Dec. 12, 2016 Mfr Rpt #BMS2016103615 Dec. 22, 2016 AE-2957042



Charles D. Blanke, MD CHAIR

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swog.org

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This memorandum serves to notify the NCI and the SWOG Statistical Center.





January 15, 2017

TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS FROM: SWOG Operations Office RE: IND Safety Reports for Nivolumab (BMS-936558) **MEMORANDUM IRB Review Requirements** Full board review required ) Expedited review allowed (√) No review required () Status Change **IRB** Review only ) ( Activation ) Closure ) Reactivation () Protocol changes Eligibility changes Treatment / Dose Modification / Study Calendar changes () Informed Consent changes Patient notification not required () Patient notification required () Scientific / Statistical Consideration changes () () Specimen Submission changes Data Submission / Forms changes ) Editorial / Administrative changes ) Other:

### **MEMORANDUM**

The following new safety report has been posted regarding adverse events that occurred in association with the drug nivolumab. Please access this safety report via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study: Reports: S1400I Lung Nov. 21, 2016 Mfr Rpt #BMS2016084841 Nov. 22, 2016 Mfr Rpt #BMS2016091101 Nov. 22, 2016 Mfr Rpt #BMS2016092973 FU Dec. 01, 2016 Mfr Rpt #BMS2016085259 FU Dec. 08, 2016 Mfr Rpt #BMS20797825 FU Dec. 08, 2016 Mfr Rpt #BMS2016080089 FU Mfr Rpt #BMS2016102275 Dec. 08. 2016 Dec. 08, 2016 Mfr Rpt #BMS2016102361 Dec. 12, 2016 Mfr Rpt #BMS2016103615



Charles D. Blanke, MD CHAIR

**GROUP CHAIR'S OFFICE** 

MC: L586 Portland, OR 97239

503-494-5586 503-346-8038 FAX

#### **OPERATIONS OFFICE**

4201 Medical Dr Suite 250 San Antonio, TX 78229

210-614-8808 210-614-0006 FAX

#### STATISTICAL CENTER

1730 Minor Ave Suite 1900 Seattle, WA 98101

206-652-2267 206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

swog.org

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





January 1, 2017

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE	FROM:	SWOG Operations Office
Charles D. Blanke, MD CHAIR	RE:	IND Safety Reports for Nivolumab (BMS-936558) <b>MEMORANDUM</b>
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>
503-494-5586 503-346-8038 FAX		Status Change ( ) IRB Review only ( ) Activation
OPERATIONS OFFICE		<ul> <li>Closure</li> <li>Reactivation</li> </ul>
4201 Medical Dr		
Suite 250		Protocol changes
San Antonio, TX 78229		<ul> <li>Eligibility changes</li> <li>Treatment / Dose Modification / Study Calendar changes</li> </ul>
210-614-8808		() Informed Consent changes
210-614-0006 FAX		<ul> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> </ul>
STATISTICAL CENTER		<ul> <li>Specimen Submission changes</li> <li>Data Submission / Forms changes</li> </ul>
1730 Minor Ave Suite 1900		<ul> <li>Editorial / Administrative changes</li> <li>Other:</li> </ul>
Seattle, WA 98101		MEMORANDUM
000 000 0000		

206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

swog.org

The following new safety report has been posted regarding adverse events that occurred in association with the drug nivolumab. Please access this safety report via the study's abstract the safety link the SWOG website page or report on (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

**S1400I** Lung

Reports:

Dec. 05, 2016 AE-2216731

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This memorandum serves to notify the NCI and the SWOG Statistical Center.





### December 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office
3181 SW Sam Jackson Pk Rd	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
MC: L586 Portland, OR 97239		MEMORANDUM
503-494-5586 503-346-8038 FAX		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>
OPERATIONS OFFICE 4201 Medical Dr Suite 250 San Antonio, TX 78229		Status Change( )IRB Review only( )Activation( )Closure( )Reactivation
210-614-8808 210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>
STATISTICAL CENTER		<ul> <li>Patient notification not required</li> <li>Patient notification required</li> </ul>
1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>
206-652-2267		
206-342-1616 FAX		MEMORANDUM
1100 Fairview Ave North		

The following new safety report has been posted regarding adverse event that occurred in association with the drug ipilimumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:	Reports:		
<u><b>S1400I</b></u> Lung	Nov. 10, 2016 AE-2470812 Nov. 16, 2016 Mfr Rpt #BMS20160866	53	

swog.org

M3-C102

PO Box 19024

206-667-4623 206-667-4408 FAX

Seattle, WA 98109

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your



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#### December 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE	FROM:	SWOG Operations Office
Charles D. Blanke, MD	RE:	IND Safety Reports for Nivolumab (BMS-936558)
CHAIR		MEMORANDUM
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>
503-494-5586 503-346-8038 FAX		Status Change () IRB Review only () Activation
OPERATIONS OFFICE		<ul> <li>() Closure</li> <li>() Reactivation</li> </ul>
4201 Medical Dr		
Suite 250 San Antonio, TX 78229		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> </ul>
210-614-8808		<ul> <li>Informed Consent changes</li> <li>Patient notification not required</li> </ul>
210-614-0006 FAX		<ul> <li>Patient notification required</li> <li>Scientific / Statistical Consideration changes</li> </ul>
STATISTICAL CENTER		<ul> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> </ul>
1730 Minor Ave Suite 1900		<ul> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>
Seattle, WA 98101		

MEMORANDUM

The following new safety reports have been posted regarding adverse events that occurred in association with the drug nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

 Second State
 Reports:

 S1400I
 Lung
 Nov. 04, 2016
 AE-2785084

 Nov. 10, 2016
 AE-2470812
 Nov. 10, 2016
 AE-2786738

 Nov. 15, 2016
 Mfr Rpt # BMS2016094814
 Nov. 15, 2016
 Mfr Rpt # BMS2016094814

 Nov. 15, 2016
 Mfr Rpt # BMS2016093850
 Nov. 16, 2016
 Mfr Rpt # BMS2016093653

 Nov. 17, 2016
 AE-2340974
 FU
 Nov. 22, 2016
 Mfr Rpt # BMS2016097201



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M3-C102 PO Box 19024

206-342-1616 FAX

Seattle, WA 98109

206-667-4408 FAX

206-667-4623

1100 Fairview Ave North

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

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### November 15, 2016

<u>S1400I</u> Lung

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office
3181 SW Sam Jackson Pk Rd	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
MC: L586		MEMORANDUM
Portland, OR 97239		IRB Review Requirements
503-494-5586 503-346-8038 FAX		<ul> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>
OPERATIONS OFFICE		Status Change
4201 Medical Dr		<ul> <li>() IRB Review only</li> <li>() Activation</li> </ul>
Suite 250		<ul> <li>Closure</li> <li>Reactivation</li> </ul>
San Antonio, TX 78229		
210-614-8808 210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>
STATISTICAL CENTER		<ul> <li>Patient notification not required</li> <li>Patient notification required</li> </ul>
1730 Minor Ave		() Scientific / Statistical Consideration changes
Suite 1900		<ul> <li>Specimen Submission changes</li> <li>Data Submission / Forms changes</li> </ul>
Seattle, WA 98101		() Editorial / Administrative changes
206-652-2267		() Other:
206-342-1616 FAX		MEMORANDUM
1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109	associat abstract	wing new safety report has been posted regarding adverse event that occurred in ion with the drug ipilimumab. Please access these safety reports via the study's page or the safety report link on the SWOG website wog.org/safetyreports/safetyreports.asp).
206-667-4623 206-667-4408 FAX		afety reports pertain to wing study: Reports:

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 Oct. 07, 2016
 Mfr Rpt #BMS2016079104

 Oct. 18, 2016
 Mfr Rpt #BMS2016085054

 Oct. 21, 2016
 Mfr Rpt #BMS2016084607

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

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#### November 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE Charles D. Blanke, MD	FROM:	SWOG Operations Office
CHAIR	RE:	IND Safety Reports for Nivolumab (BMS-936558)
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM
Portland, OR 97239		IRB Review Requirements ( ) Full board review required
503-494-5586 503-346-8038 FAX		() Expedited review allowed () No review required
OPERATIONS OFFICE 4201 Medical Dr Suite 250		Status Change         ( )       IRB Review only         ( )       Activation         ( )       Closure         ( )       Reactivation
San Antonio, TX 78229		
210-614-8808 210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> </ul>
STATISTICAL CENTER		<ul> <li>Patient notification required</li> <li>Scientific / Statistical Consideration changes</li> </ul>
1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>
206-652-2267 206-342-1616 FAX		MEMORANDUM
1100 Faistion Ave North	The foll	owing new safety reports have been posted regarding adverse event

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

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ts that occurred in association with the drug nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

Reports:

**S1400I** Lung

Oct. 07, 2016 Mfr Rpt #BMS2016079104 Oct. 14, 2016 Mfr Rpt #2016IN002758 FU Oct. 18, 2016 Mfr Rpt #BMS2016085054 Oct. 18, 2016 Mfr Rpt #BMS2016086465 Oct. 21, 2016 Mfr Rpt #BMS2016084607



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November 1, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office
3181 SW Sam Jackson Pk Rd	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
MC: L586 Portland, OR 97239		MEMORANDUM
503-494-5586 503-346-8038 FAX		<ul> <li>IRB Review Requirements</li> <li>() Full board review required</li> <li>(√) Expedited review allowed</li> <li>() No review required</li> </ul>
OPERATIONS OFFICE 4201 Medical Dr Suite 250 San Antonio, TX 78229		Status Change( )IRB Review only( )Activation( )Closure( )Reactivation
210-614-8808 210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>
STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> </ul>
206-652-2267 206-342-1616 FAX		( ) Other: <u>MEMORANDUM</u>
1100 Fairview Ave North M3-C102		wing new safety report has been posted regarding adverse event that occurrent in with the drug initimumab. Please access these safety reports via the student

M3-C102The following new safety report has been posted regarding adverse event that occurred in<br/>association with the drug ipilimumab. Please access these safety reports via the study's<br/>abstract page or the safety report link on the SWOG website<br/>(https://swog.org/safetyreports/safetyreports.asp).206-667-4623These safety reports pertain to

206-667-4623 206-667-4408 FAX

S1400I Lung

the following study:

Reports:

Sep. 27, 2016 Mfr Rpt #BMS2016010123 FU Oct. 04, 2016 AE-2929582

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Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your



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#### November 1, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE Charles D. Blanke, MD	FROM:	SWOG Operations Office
CHAIR	RE:	IND Safety Reports for Nivolumab (BMS-936558)
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM
Portland, OR 97239		RB Review Requirements ) Full board review required
503-494-5586 503-346-8038 FAX		<ul> <li>(√) Expedited review allowed</li> <li>() No review required</li> </ul>
OPERATIONS OFFICE 4201 Medical Dr Suite 250		Status Change( )IRB Review only( )Activation( )Closure( )Reactivation
San Antonio, TX 78229		Protocol changes
210-614-8808 210-614-0006 FAX		<ul> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> </ul>
STATISTICAL CENTER		
1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>
206-652-2267		
206-342-1616 FAX		MEMORANDUM

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX The following new safety reports have been posted regarding adverse events that occurred in association with the drug nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

Reports:

**S1400I** Lung

Sep. 27, 2016 Mfr Rpt #BMS2016010123 FU

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October 15, 2016

the following study:

S1400I Lung

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office
3181 SW Sam Jackson Pk Rd	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
MC: L586		MEMORANDUM
Portland, OR 97239		IRB Review Requirements
503-494-5586 503-346-8038 FAX		<ul> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>
OPERATIONS OFFICE		Status Change
4201 Medical Dr		<ul> <li>() IRB Review only</li> <li>() Activation</li> </ul>
Suite 250 San Antonio, TX 78229		<ul><li>() Closure</li><li>() Reactivation</li></ul>
210-614-8808 210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>
STATISTICAL CENTER		<ul> <li>() Patient notification not required</li> <li>() Patient notification required</li> </ul>
1730 Minor Ave		() Scientific / Statistical Consideration changes
Suite 1900		<ul> <li>Specimen Submission changes</li> <li>Data Submission / Forms changes</li> </ul>
Seattle, WA 98101		() Editorial / Administrative changes
206-652-2267		() Other:
206-342-1616 FAX		MEMORANDUM
1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109	associati abstract	wing new safety report has been posted regarding adverse event that occurred in on with the drug ipilimumab. Please access these safety reports via the study's page or the safety report link on the SWOG website wog.org/safetyreports/safetyreports.asp).
206-667-4623	These sa	fety reports pertain to

Reports:

Sep. 09, 2016 Mfr Rpt #BMS2016067654

 Sep. 19, 2016
 Min Rpt #BMS2016073689

 Sep. 22, 2016
 Mfr Rpt #BMS2016073033

 Sep. 29, 2016
 AE-2667227

206-667-4623 206-667-4408 FAX

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SWOG Authorized Document Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

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### October 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS				
GROUP CHAIR'S OFFICE Charles D. Blanke, MD	FROM:	SWOG Operations Office				
CHAIR	RE:	IND Safety Reports for Nivolumab (BMS-936558)				
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM				
Portland, OR 97239		IRB Review Requirements () Full board review required				
503-494-5586 503-346-8038 FAX		<ul> <li>(√) Expedited review required</li> <li>(√) Expedited review allowed</li> <li>() No review required</li> </ul>				
OPERATIONS OFFICE 4201 Medical Dr Suite 250		Status Change( )IRB Review only( )Activation( )Closure( )Reactivation				
San Antonio, TX 78229		Protocol changes				
210-614-8808 210-614-0006 FAX		<ul> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> </ul>				
STATISTICAL CENTER		<ul> <li>Patient notification required</li> <li>Scientific / Statistical Consideration changes</li> </ul>				
1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>Specimen Submission changes</li> <li>Data Submission / Forms changes</li> <li>Editorial / Administrative changes</li> <li>Other:</li> </ul>				
206-652-2267 206-342-1616 FAX		MEMORANDUM				

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX The following new safety reports have been posted regarding adverse events that occurred in association with the drug nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

Reports:

**S1400I** Lung

Sep. 09, 2016 Mfr Rpt #BMS2016067654 Sep. 19, 2016 Mfr Rpt #BMS2016073689 Sep. 22, 2016 Mfr Rpt #BMS2016075033

swog.org

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October 1, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office
3181 SW Sam Jackson Pk Rd	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
MC: L586 Portland, OR 97239		MEMORANDUM
503-494-5586 503-346-8038 FAX		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>
OPERATIONS OFFICE 4201 Medical Dr Suite 250 San Antonio, TX 78229		Status Change( )IRB Review only( )Activation( )Closure( )Reactivation
210-614-8808 210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>
STATISTICAL CENTER		<ul> <li>Patient notification not required</li> <li>Patient notification required</li> </ul>
1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>Scientific / Statistical Consideration changes</li> <li>Specimen Submission changes</li> <li>Data Submission / Forms changes</li> <li>Editorial / Administrative changes</li> </ul>
206-652-2267		() Other:
206-342-1616 FAX		MEMORANDUM
1100 Fairview Ave North M3-C102	associati	wing new safety report has been posted regarding adverse event that occurred in on with the drug ipilimumab. Please access these safety reports via the study's
PO Box 19024 Seattle, WA 98109	abstract ( <u>https://s</u>	page or the safety report link on the SWOG website wog.org/safetyreports/safetyreports.asp).

206-667-4623

206-667-4408 FAX

swog.org

Reports:

This safety report pertain to the

following study:

**<u>S1400I</u>** Lung

Aug. 31, 2016 AE-2745409 Sep. 01, 2016 Mfr Rpt #BMS2016070761 Sep. 02, 2016 AE-2078817 Sep. 15, 2016 AE-2011772



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CHAIR	RE:	IND Safety Reports for Nivolumab (BMS-936558)					
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM IRB Review Requirements					
Portland, OR 97239		() Full board review required					
503-494-5586 503-346-8038 FAX		<ul> <li>(√) Expedited review allowed</li> <li>() No review required</li> </ul>					
OPERATIONS OFFICE 4201 Medical Dr Suite 250		Status Change         ( )       IRB Review only         ( )       Activation         ( )       Closure         ( )       Reactivation					
San Antonio, TX 78229		Protocol changes					
210-614-8808 210-614-0006 FAX		<ul> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> </ul>					
STATISTICAL CENTER		<ul> <li>Patient notification required</li> <li>Scientific / Statistical Consideration changes</li> </ul>					
1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul>					
206-652-2267 206-342-1616 FAX		MEMORANDUM					

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

swog.org

The following new safety reports have been posted regarding adverse events that occurred in association with the drug nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

**S1400I** Lung

Reports:

Jul. 22, 2016 Mfr Rpt #BMS2016059790 Aug. 23, 2016 Mfr Rpt #BMS2016067147 Aug. 29, 2016 Mfr Rpt #BMS2016IN004847 FU Sep. 01, 2016 Mfr Rpt #BMS2016064730 Sep. 01, 2016 Mfr Rpt #BMS2016070761 Sep. 02, 2016 AE-2078817 Sep. 14, 2016 Mfr Rpt #BMS2016073278



Sep. 20, 2016 Mfr Rpt #BMS2016035850 FU Sep. 22, 2016 AE-2510609

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





## September 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS			
GROUP CHAIR'S OFFICE Charles D. Blanke, MD	FROM:	SWOG Operations Office			
CHAIR	RE:	IND Safety Reports for Nivolumab (BMS-936558)			
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239		MEMORANDUM			
503-494-5586 503-346-8038 FAX		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>(√) Expedited review allowed</li> <li>( ) No review required</li> </ul>			
OPERATIONS OFFICE		Status Change () IRB Review only			
4201 Medical Dr		() Activation			
Suite 250		<ul> <li>() Closure</li> <li>() Reactivation</li> </ul>			
San Antonio, TX 78229					
210-614-8808		Protocol changes			
210-614-0006 FAX		<ul> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>			
STATISTICAL CENTER		<ul> <li>Patient notification not required</li> <li>Patient notification required</li> </ul>			
1730 Minor Ave		() Scientific / Statistical Consideration changes			
Suite 1900		<ul> <li>Specimen Submission changes</li> <li>Data Submission / Forms changes</li> </ul>			
Seattle, WA 98101		<ul> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> </ul>			
206-652-2267		() Other:			
206-342-1616 FAX		MEMORANDUM			

1100 Fairview Ave North The following new safety reports have been posted regarding adverse events that occurred in association with the drug nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

> These safety reports pertain to the following study:

> > **S1400I** Lung

Reports:

Aug. 10, 2016 Mfr Rpt #BMS2016063547 Aug. 16, 2016 Mfr Rpt #BMS2016064385 Aug. 18, 2016 Mfr Rpt #BMS2016058028 Aug. 22, 2016 AE2525865 Aug. 25, 2016 AE2301322 Aug. 25, 2016 AE2318852



swog.org

M3-C102

PO Box 19024

206-667-4623

Seattle, WA 98109

206-667-4408 FAX

## Aug. 31, 2016 AE2340974

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





## September 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS				
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office				
3181 SW Sam Jackson Pk Rd	RE:	IND Safety Reports for Ipilimumab (BMS-734016)				
MC: L586		MEMORANDUM				
Portland, OR 97239		IRB Review Requirements				
503-494-5586 503-346-8038 FAX		<ul> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>				
OPERATIONS OFFICE		Status Change () IRB Review only				
4201 Medical Dr Suite 250 San Antonio, TX 78229		<ul> <li>( ) Activation</li> <li>( ) Closure</li> <li>( ) Reactivation</li> </ul>				
210-614-8808 210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> </ul>				
STATISTICAL CENTER		<ul> <li>Patient notification not required</li> <li>Patient notification required</li> </ul>				
1730 Minor Ave		() Scientific / Statistical Consideration changes				
Suite 1900		<ul> <li>Specimen Submission changes</li> <li>Data Submission / Forms changes</li> </ul>				
Seattle, WA 98101		<ul> <li>Editorial / Administrative changes</li> <li>Other:</li> </ul>				
206-652-2267						
206-342-1616 FAX		MEMORANDUM				
1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109	associat abstract	wing new safety report has been posted regarding adverse event that occurred in ion with the drug ipilimumab. Please access these safety reports via the study's				
206-667-4623 206-667-4408 FAX	This safe following	ety report pertain to the study: Reports:				

swog.org

**<u>S1400I</u>** Lung

Aug. 18, 2016Mfr Rpt #BMS2016058028Aug. 25, 2016AE2301322Aug. 25, 2016AE2318852



Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





September 1, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS			
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u> )			
Charles D. Blanke, MD CHAIR	RE:	<u>S1400</u> , "Phase II/III Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer". Study Chairs: V. Papadimitrakopoulou, F.R.			
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239		Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.			
503-494-5586 503-346-8038 FAX		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>			
OPERATIONS OFFICE 4201 Medical Dr		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( ) Expedited review allowed</li> <li>( √ ) No review required</li> </ul>			
Suite 250 San Antonio, TX 78229		Status Change () IRB Review only			
210-614-8808 210-614-0006 FAX		<ul> <li>Activation</li> <li>Closure</li> <li>Reactivation</li> </ul>			
<b>STATISTICAL CENTER</b> 1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>Protocol changes</li> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> </ul>			
206-652-2267 206-342-1616 FAX		<ul> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> </ul>			
1100 Fairview Ave North M3-C102		() Other:			
PO Box 19024 Seattle, WA 98109		MEMORANDUM			
206-667-4623	The purpos	se of this memorandum is to inform sites of the following items:			
206-667-4408 FAX	on	revised <u><b>S1400</b></u> Funding Memo is available on the <u><b>S1400</b></u> Abstract Page Links the SWOG ( <u>http://swog.org</u> ) and CTSU ( <u>https://www.ctsu.org</u> ) websites. An ditional site payment is being offered to sites for a limited duration.			
swog.org		w Investigator's Brochures are now available for the following investigational ents.			



Sub-Study: <u>S1400B</u>	Agent: GDC-0032 May2016_Ver6 Addendum 1
Sub-Study: <u>S1400I</u>	Agent: Nivolumab

24Jun2016\_Ver 15 and 5Jul2016\_Ver 15\_Err01 SWOG's standard procedures will be followed in updating the drug information

sections based on the most recent Investigator's brochure versions. Sites should seek updated Investigator's brochures as required by site's IRB of record.

The Investigator's brochures are available through the CTSU website. Complete the CTSU Request for Clinical Brochure form located under LPO Documents – Pharmacy Forms. Complete and return to <a href="mailto:ctsucontact@westat.com">ctsucontact@westat.com</a>.

- 3. The final aspects of Revision #5 are in effect as of September 1, 2016.
  - a. Patient Reported Outcomes (PRO) have been added to the sub-study **<u>S14001</u>**.
  - b. Patients who progress on a sub-study now have the option to be assigned to a new sub-study.
  - c. Status Update Form submission requirement has been added. The following forms for the above-noted study have been updated.

# Note: Please discard old versions of these forms and replace with the new versions.

## <u>S1400</u>

S1400 Rave Form Display Form S1400 Notice of Progression (500043v1.2)

S1400 Status Update (New form 500228v1.0) S1400 Request for New Sub-study Assignment (New form 500229v1.0)

## <u>S1400A</u>

S1400A Rave Form Display Form S1400A Adverse Events (500039v1.2)

## <u>S1400B</u>

S1400B Rave Form Display S1400B Adverse Event Form (500096v1.1)

S1400B Pre-Treatment Laboratory Values Form (New form 500230v1.0)

## <u>S1400C</u>

S1400C Rave Form Display S1400C Adverse Event Form (500040v1.1)

S1400C Pre-Treatment Laboratory Values Form (New form 500231v1.0)

## <u>S1400D</u>

S1400D Rave Form Display S1400D Adverse Event Form (500041v1.1)

S1400D Pre-Treatment Laboratory Values Form (New form 500232v1.0)



S1400I

S1400I Rave Form Display S1400I Registration Worksheet (500151v1.1) S1400I Adverse Event Form (500160v1.1)

S1400I Pre-Treatment Laboratory Values Form (New form 500233v1.0) S1400I Cover Sheet for PRO Questionnaires (New form 500234v1.0) S1400I EQ-5D Questionnaire (New form 500235v1.0) S1400I PRO Questionnaire(New form 500236v1.0)

This memorandum serves to notify the NCI and SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE





# September 1, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETW	VORK (NCTN) MEMBERS	
GROUP CHAIR'S OFFICE					
Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office			
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ipi	limumab (BMS-7	734016)	
Portland, OR 97239		MEMORANDUM			
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review () No review require	required allowed		
OPERATIONS OFFICE		Status Change			
4201 Medical Dr		() IRB Review only			
Suite 250		<ul> <li>Activation</li> <li>Closure</li> <li>Reactivation</li> </ul>			
San Antonio, TX 78229					
210-614-8808		Drotocol changes			
210-614-0006 FAX		Protocol changes () Eligibility changes () Treatment / Dose M		ly Calendar changes	
STATISTICAL CENTER		<ul> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> </ul>			
1730 Minor Ave		<ul> <li>( ) Patient notification required</li> <li>( ) Scientific / Statistical Consideration changes</li> <li>( ) Specimen Submission changes</li> <li>( ) Data Submission / Forms changes</li> <li>( ) Editorial / Administrative changes</li> </ul>			
Suite 1900					
Seattle, WA 98101					
206-652-2267					
206-342-1616 FAX		() Other:			
1100 Fairview Ave North			MEMORANDU	Μ	
M3-C102					
PO Box 19024				garding adverse event that occurred in	
Seattle, WA 98109	abstract			ss these safety reports via the study's link on the SWOG website	
206-667-4623		wog.org/safetyreports/safe			
206-667-4408 FAX	This safe following	ety report pertain to the study:	Reports:		
swog.org	<u>S14(</u>	<mark>001</mark> Lung	Jul. 29, 2016 Aug. 01, 2016 Aug. 01, 2016 Aug. 05, 2016	Mfr Rpt #BMS2016001137 Mfr Rpt #BMS2016057203 FU Mfr Rpt #BMS2016060237 Mfr Rpt #BMS2016061701	



Aug. 16, 2016AE1636062Aug. 16, 2016AE2054219Aug. 16, 2016AE2507112

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





# September 1, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETWORK (NCTN) MEMBERS		
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office			
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ni	volumab (BMS-936558)		
Portland, OR 97239		MEMORANDUM			
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review () No review require	required allowed		
OPERATIONS OFFICE		Status Change			
4201 Medical Dr		Status Change () IRB Review only			
Suite 250		() Activation			
San Antonio, TX 78229		<ul> <li>Closure</li> <li>Reactivation</li> </ul>			
210-614-8808		Drotocol chonges			
210-614-0006 FAX			odification / Study Calendar changes		
STATISTICAL CENTER		<ul> <li>( ) Informed Consent changes</li> <li>( ) Patient notification not required</li> </ul>			
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Suite 1900		() Scientific / Statistical Consideration changes			
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206-652-2267 206-342-1616 FAX					
1100 Fairview Ave North			MEMORANDUM		
M3-C102			MEMORANDOM		
PO Box 19024			have been posted regarding adverse events that		
Seattle, WA 98109			ug nivolumab. Please access these safety reports via the safety report link on the SWOG website		
206-667-4623		wog.org/safetyreports/safe			
206-667-4408 FAX		afety reports pertain to ving study:	Reports:		
swog.org	<u>S140</u>	<u>001</u> Lung	Jul. 29, 2016Mfr Rpt #BMS2016001137Aug. 01, 2016Mfr Rpt #BMS2016057203 FUAug. 01, 2016Mfr Rpt #BMS2016060237Aug. 05, 2016Mfr Rpt #BMS2016061701		



Aug. 16, 2016AE1636062Aug. 16, 2016AE2054219Aug. 16, 2016AE2507112

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





August 15, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETWORK (NCTN) MEMBERS		
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office			
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ipi	limumab (BMS-734016)		
Portland, OR 97239		MEMORANDUM			
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review () No review require	required allowed		
OPERATIONS OFFICE		Status Change			
4201 Medical Dr		() IRB Review only			
Suite 250		() Activation () Closure			
San Antonio, TX 78229		() Reactivation			
210-614-8808 210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>( ) Eligibility changes</li> <li>( ) Treatment / Dose Modification / Study Calendar changes</li> <li>( ) Informed Consent changes</li> <li>( ) Patient notification not required</li> </ul>			
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1730 Minor Ave		<ul> <li>Patient notification required</li> <li>Scientific / Statistical Consideration changes</li> <li>Specimen Submission changes</li> </ul>			
Suite 1900					
Seattle, WA 98101		<ul> <li>Data Submission / Forms changes</li> <li>Editorial / Administrative changes</li> </ul>			
206-652-2267		() Other:	aive changes		
206-342-1616 FAX					
1100 Fairview Ave North M3-C102			MEMORANDUM		
PO Box 19024			been posted regarding adverse event that occurred in		
Seattle, WA 98109	associati abstract		b. Please access these safety reports via the study's report link on the SWOG website		
206-667-4623	( <u>https://s</u>	wog.org/safetyreports/safet			
206-667-4408 FAX	This safe following	ety report pertain to the study:	Reports:		
swog.org	<u>S140</u>	<b>001</b> Lung	Aug. 02, 2016 AE2507112		

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in this report if it is deemed necessary by your



institution. Please append this notice and this report to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





August 15, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETW	ORK (NCTN) MEMBERS	
GROUP CHAIR'S OFFICE					
Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office			
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ni	volumab (BMS-93	36558)	
Portland, OR 97239		MEMORANDUM			
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review () No review require	required allowed		
OPERATIONS OFFICE		Status Change			
4201 Medical Dr Suite 250		Status Change () IRB Review only () Activation			
San Antonio, TX 78229		() Closure () Reactivation			
210-614-8808					
210-614-0006 FAX		<ul> <li>Protocol changes <ul> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul></li></ul>			
STATISTICAL CENTER					
1730 Minor Ave					
Suite 1900					
Seattle, WA 98101					
206-652-2267					
206-342-1616 FAX					
1100 Fairview Ave North			MEMORANDU	м	
M3-C102				<u>-</u>	
PO Box 19024				sted regarding adverse events that	
Seattle, WA 98109	the stud	dy's abstract page or	the safety rep	ease access these safety reports via port link on the SWOG website	
206-667-4623	( <u>nttps://s</u> v	wog.org/safetyreports/safe	tyreports.asp).		
206-667-4408 FAX		fety reports pertain to ving study:	Reports:		
swog.org	<u>S140</u>	<u>001</u> Lung	Jul. 11, 2016	Mfr Rpt #2016IN003459 Mfr Rpt #BMS2016041014 Mfr Rpt #2016IN004076	



Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.





swog.org

Revision #5.

Distribution Date: August 15, 2016 E-mailed Date: August 10, 2016

GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS			
	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u> )			
	RE:	<b><u>S1400</u></b> , "Phase II/III Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer". Study Chairs: V. Papadimitrakopoulou, F.R.			
3181 SW Sam Jackson Pk Rd MC: L586		Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.			
Portland, OR 97239		MEMORANDUM			
503-494-5586 503-346-8038 FAX		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>			
OPERATIONS OFFICE		IRB Review Requirements () Full board review required			
4201 Medical Dr		( ) Expedited review allowed			
Suite 250		$(\sqrt{)}$ No review required			
San Antonio, TX 78229		Status Change			
210-614-8808		() IRB Review only			
210-614-0006 FAX		<ul> <li>Activation</li> <li>Closure</li> <li>Reactivation</li> </ul>			
STATISTICAL CENTER		Protocol changes			
1730 Minor Ave		() Eligibility changes			
Suite 1900		() Treatment / Dose Modification / Study Calendar changes			
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206-652-2267		<ul> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> </ul>			
206-342-1616 FAX		<ul> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> </ul>			
1100 Fairview Ave North M3-C102		<ul> <li>Éditorial / Administrative changes</li> <li>Other:</li> </ul>			
PO Box 19024					
Seattle, WA 98109		MEMORANDUM			
206-667-4623		se of this memorandum is to correct an error in the Revision #5 cover memo			
206-667-4408 FAX		listributed on August 4, 2016. That memo indicated that patients need not be the changes. It has come to our attention that, despite the CIRB's assessment			

that patients need not be notified of the changes in this revision, CTEP's Action Letter does require patient notification.
Therefore, patients currently receiving MEDI4736, GDC-0032, palbociclib, or AZD4745 and patients who sign a sub-study consent form prior to the revised consent being implemented must be informed of the new and modified risk information outlined in



The manner by which the notification takes place is at the discretion of the local institution. At a minimum, the patient must be notified by the next visit and this notification process must be documented in the patient chart. A **<u>S1400D</u>** [AZD4547] consent addendum was provided as a tool for notifying patients.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE



	Distributior E-mailed D			gust 15, 2 gust 4, 20						
	TO:	ALL NAT	IONA		AL TRI	ALS NET	WORK (N	CTN)	MEMBERS	
	FROM:	Crystal M	liwa, I	Protocol	Coordina	ator (E-m	ail: cmiwa	@swa	og.org)	
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	RE:	Squamou	is Ce	ll Lung C	ancer ".	Study C	hairs: V. F	Papad	Previously dimitrakopoulo 3. Gandara.	
3181 SW Sam Jackson Pk Rd MC: L586	MEMORA	NDUM								
Portland, OR 97239	Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363									
503-494-5586	Phone number: 713/792-6363 E-mail: vpapadim@mdanderson.org									
503-346-8038 FAX	IRB Review	w Require	ment	S						
OPERATIONS OFFICE 4201 Medical Dr	() Full t () Expe	board revie edited revie eview requi	w req w allo	quired						
Suite 250 San Antonio, TX 78229	Status Change () IRB Review only () Activation									
210-614-8808 210-614-0006 FAX	() Closure () Reactiv	;								
STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101 206-652-2267	<ul> <li>( ) Treatme</li> <li>( ) Informe</li> <li>( ) Pat</li> <li>( ) Scientif</li> <li>( ) Specim</li> </ul>	ty changes ent / Dose I ed Consent ient notifica ient notifica ic / Statistic en Submiss	chang ation r ation r cal Co sion c	ges not requir required onsiderati changes	ed on chan		nanges			
206-342-1616 FAX	<ul> <li>( ) Data Submission / Forms changes</li> <li>( ) Editorial / Administrative changes</li> <li>(√) Other: Instructions for Revision #5</li> </ul>									
1100 Fairview Ave North M3-C102	(√) Other:	Instructions	s for F	Revision #	<i>‡</i> 5					
PO Box 19024 Seattle, WA 98109					MEMOR		<u>l</u>			
206-667-4623 206-667-4408 FAX		not go int							6, some asp ow are the cl	
	1) Adminis <u>August 4,</u>		ates a	and clarif	ications	througho	out the pro	tocol	and consents	Effective

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2) Changes to protocol and Model Consent Form in response to a Request for Amendment (RA) for MEDI4736 (**S1400A**), GDC-0032 (taselisib) (**S1400B**), palbociclib (**S1400C**), and AZD4647 (**S1400D**). <u>Effective August 4, 2016.</u>

3) Patient Reported Outcomes (PRO) have been added to the sub-study **S1400I.** <u>Effective</u> <u>September 1, 2016.</u>

4) Patients who progress on a sub-study now have the option to be assigned to a new substudy. <u>Effective September 1, 2016.</u>

5) Status Update Form submission requirement has been added. <u>Effective September 1,</u> 2016.

Also, please note that **<u>S1400C</u>** remains temporarily closed to accrual while an interim analysis of the study is being performed.

For questions, please e-mail S1400question@crab.org.

**PROTOCOL & INFORMATION OFFICE** cc: Hossein Borghaei, D.O. James L. Wade III, M.D. Corey J. Langer, M.D. Martin J. Edelman, M.D. Charu Aggarwal, M.D., M.P. Mark A. Socinski, M.D. Scott Gettinger, M.D. Lyudmila A. Bazhenova, M.D. Mary Redman, Ph.D. James Moon, M.S. Shannon McDonough, M.S. Jieling Miao, M.S. Katherine Griffin, M.S. Monica Yee, B.A. Louise Highleyman Kara Amber MedImmune, LLC. Genentech, Inc. Pfizer, Inc. AstraZeneca **Bristol Myers Squib** Foundation Medicine Inc. TRIAD Nationwide





Leading cancer research. To	gether.						
	Distributio E-mailed I CTEP Sub						
	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) PARTICIPANTS					
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: cmiwa@swog.org)					
Charles D. Blanke, MD CHAIR	RE:	<b>S1400</b> , "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer ". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.					
3181 SW Sam Jackson Pk Rd MC: L586		REVISION #5					
Portland, OR 97239		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: vpapadim@mdanderson.org					
503-346-8038 FAX		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> </ul>					
OPERATIONS OFFICE		( ) No review required					
4201 Medical Dr		Status Change					
Suite 250		() IRB Review only					
San Antonio, TX 78229		() Activation $(\sqrt{3})$ Required local accrual suspension of <b>S1400C</b> and <b>S1400D</b> only					
210-614-8808		( $$ ) Required local accrual suspension of <u>S1400C</u> and <u>S1400D</u> only Accrual of new patients to sub-studies <u>S1400C</u> and <u>S1400D</u> must be					
210-614-0006 FAX		<ul> <li>suspended until the revised Model Consent Forms are approved by the site's IRB of record and <b>implemented</b>.</li> <li>() Closure</li> </ul>					
STATISTICAL CENTER		() Reactivation					
1730 Minor Ave		Protocol changes					
Suite 1900		$(\sqrt{)}$ Eligibility changes					
Seattle, WA 98101		<ul> <li>(√) Treatment / Dose Modification / Study Calendar changes</li> <li>(√) Informed Consent changes</li> </ul>					
206-652-2267		() Patient notification not required					
206-342-1616 FAX		$(\sqrt{)}$ Patient notification required for patients being treated on <u>S1400D</u> only. The changes in this amendment are significant enough to impact a patient's willingness to continue. The manner by which					
1100 Fairview Ave North		impact a patient's willingness to continue. The manner by which this notification takes place is at the discretion of the local					
M3-C102		institution. At a minimum, the patient must be notified by the next					
PO Box 19024		visit and this notification process must be documented in the patient chart. A consent addendum is provided as a tool for					
Seattle, WA 98109		notifying patients.					
206-667-4623		<ul> <li>Scientific / Statistical Consideration changes</li> <li>Specimen Submission changes</li> </ul>					
206-667-4408 FAX		$(\sqrt{)}$ Data Submission / Forms changes					
		$(\sqrt{)}$ Editorial / Administrative changes					

 $(\sqrt{)}$  Other: Addition of Patient Reported Outcomes for new patients on S1400I

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# **REVISION #5**

The above-referenced protocol has been revised.



This revision includes the following changes:

- 1) Administrative updates and clarifications throughout the protocol and consents
- 2) Changes in response to a modified Request for Amendment (RA) for MEDI4736 (<u>S1400A</u>), GDC-0032 (taselisib) (<u>S1400B</u>), palbociclib (<u>S1400C</u>), and AZD4647 (<u>S1400D</u>), received on June 30, 2016 from Dr. Meg Mooney mooneym@ctep.nci.nih.gov.
- 3) Patient Reported Outcomes (PRO) for the sub-study **<u>S14001</u>**
- 4) Patients who progress on a sub-study now have the option to be assigned to a new sub-study.

The revision has been organized by protocol edits for <u>**S1400**</u> and each of the sub-studies, followed by the model consent form edits.

#### General throughout Protocol

- 1. The Version Date of the protocol and the model consent forms have been updated.
- 2. Table of Contents: The page numbers have been updated for the following sections: <u>S1400</u>, <u>S1400B</u>, <u>S1400B</u>, <u>S1400C</u>, <u>S1400D</u>, <u>S1400E</u>, <u>S1400I</u>.
- 3. Throughout the protocol, formatting, typographical errors, pagination, and cross-references have been corrected as needed.

#### <u>S1400</u>

- 1. **Page 1, Title Page:** The email address has been updated for Dr. David Gandara and Dr. Schwartz. Katharine Griffin has been added under the Biostatisticians.
- 2. **Page 2, Participants Page:** The participants page has been updated as follows:
  - Dr. Glenwood Goss has been added as the CCTG Study Chair
    - Dr. Karen Kelly has been added as the SWOG Study Chair.
  - "NCIC CTG Study Chair" has been revised to "CCTG Study Chair"
  - "NCIC CTG/NCI Canada Clinical Trials Group" has been revised to "CCTG/Canadian Cancer Trials Group"
- 3. **Page 5, Cancer Trials Support Unit (CTSU) Address and Contact Information:** The email address for treatment or toxicity related questions has been updated.
- Page 6, Schema: The sub-study <u>S1400A</u> has been removed. A footnote has been inserted to state that upon progression, patients may be eligible for another sub-study. "Phase II" has been added to <u>S1400I</u>. "Phase II" has been relocated next to sub-studies <u>S1400B</u>, <u>S1400C</u>, and <u>S1400D</u>.
- 5. **Page 16, Section 5.1c, Screening/Pre-Screening Registration:** The second sentence has been edited for clarification in the eligibility criterion related to adequate tissue.
- 6. **Page 16, Section 5.1d, Screening/Pre-Screening Registration:** The following sentence has been added to the eligibility criterion related to mutations: "EGFR/ALK testing is not required prior to registration and is included in the FMI testing for screening/prescreening."
- 7. **Pages 16-17, Section 5.2, Sub-Study Registration:** A paragraph has been added to provide information on receiving a new sub-study assignment after progression on a sub-study. A sentence has been added to the end of the third paragraph providing contact information for eligibility questions.
- Page 17, Section 5.2b, Sub-Study Registration: The eligibility criterion related to progression has been revised from "pre RECIST 1.1 (see Section 10.1)" to "(in the opinion of the treating investigator)".



- 9. **Page 17, Section 5.2c, Sub-Study Registration:** The eligibility criterion related to prior therapy has been revised as follows:
  - The third sentence has been replaced with: "Patients must not have received any radiation therapy within 14 days prior to sub-study registration."
  - The last sentence has been removed
  - A reference to CNS metastases criteria has been added
- 10. **Page 18, Section 5.2e, Sub-Study Registration:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - "and prior to registration" has been added to the second sentence
  - "1 day" has been revised to "24 hours"
- 11. **Pages 21-22, Section 10.1c, Notes on measurability:** This section has been revised to elaborate upon CT, PET/CT, and MRI to allow for use of scanners from different manufacturers.
- 12. **Page 35, Section 11.4c, Accrual Information:** "screened" has been added to the first sentence.
- 13. **Pages 37-38**, Section 13.2, Requirements for Site Registration: New information for downloading site registration documents, submitting regulatory documents, and checking your site's registration status have been added.
- 14. **Page 42, Section 14.4d, Data Submission Overview:** This section has been added to notify sites to submit a screening/pre-screening status update after receiving sub-study assignment. The subsequent sections have been re-numbered accordingly.
- 15. **Page 42, Section 14.4e, Data Submission Overview:** Follow-up on screening/prescreening registrations has been updated to occur more frequently.
- 16. **Page 43, Section 14.6, Data Submission Overview**: This section has been added to notify sites of the forms required to submit for patients who have progressed on a sub-study wishing to register to a new sub-study.
- 17. **Page 44, Section 15.2b, BioMarker Profiling:** The contact information for Foundation Medicine, Inc. has been updated.
- 18. **Page 45, Section 15.3b.1, Specimen Collection:** "at the time of progression on current treatment" has been added for clarity.
- 19. **Page 46, Section 15.4, Radiology Review:** The timepoints for CT, PET/CT, and/or MRI images have been clarified. Imaging is only required once a patient is registered to an **S1400** sub-study.
- 20. **Page 67, Section 18.1d, List of Sub-studies, Table 1.1**: "q" has been added to the S1400I, Ipilimumab's cycle column for clarification.



## S1400A

1. **Pages 82-84, Section 3.1c.1, MEDI4736 NSC 778709:** The MEDI4736 adverse effects section has been replaced with a CTEP Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.0, February 2, 2016. The section has been updated as follows:

Added New Risks:

Less Likely: Dental caries; Anorexia

Increased in Risk Attribution:

• Changed from Rare but Serious to Less Likely: Hypothyroidism Decreased in Risk Attribution:

Changed from Likely to Less Likely: Nausea; Fatigue

Skin and Subcutaneous Tissue Disorders – Rash is now reported as Rash maculo-papular Removal of Risks:

- Less Likely: Anemia, Constipation; Abdominal pain; Pyrexia; Chills; Peripheral edema; Urinary tract infection; Increase gamma-glutamyltransferase; Elevated alanine aminotransferase; Elevated aspartate aminotransferase; Decreased appetite; Dehydration; Dizziness; Headache; Dyspnea; Cough; Chest pain; Arthralgia; Back pain; Myalgia
- Rare but Serious: Sepsis sinusitis; Hypercalcemia; Peripheral neuropathy; Pleural effusion; Pneumonitis; Angiopathy

<u>Specific Protocol Exceptions to Expedited Reporting (SPEER)</u> reporting requirements column has been removed.

Also Reported but With Insufficient Evidence for Attribution: Anemia; Disseminated intravascular coagulation; Atrial flutter; Cardiac disorders - Other (coronary artery disease); Pericardial effusion; Pericardial tamponade; Hearing impaired; Adrenal insufficiency; Hyperthyroidism; Eye disorders -Other (choroidal effusion with shut down of ciliary body); Abdominal pain; Colitis; Esophageal perforation; Gastrointestinal disorders - Other (gastrointestinal hemorrhage); Proctitis; Small intestinal obstruction; Upper gastrointestinal hemorrhage; Edema limbs; Fever; Infusion related reaction; Non-cardiac chest pain; Hepatic hemorrhage; Hepatobiliary disorders - Other (hepatitis); Immune system disorders - Other (drug-induced liver injury); Infections and infestations - Other (liver abscess); Lung infection; Rash pustular; Urinary tract infection; Alanine aminotransferase increased; Aspartate aminotransferase increased; GGT increased; Investigations - Other (electrocardiogram T wave inversion); Neutrophil count decreased; Platelet count decreased; Serum amylase increased; Weight loss; White blood cell decreased; Dehydration; Hypercalcemia; Hyperglycemia; Hypomagnesemia; Hyponatremia; Arthralgia; Arthritis; Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis); Myalgia; Neoplasms benign, malignant and unspecified (incl cysts and polyps) - Other (tumor hemorrhage); Treatment related secondary malignancy; Tumor pain; Ataxia; Dizziness; Edema cerebral; Headache; Nervous system disorders Other (hemiparesis); Nervous system disorders - Other (axonal neuropathy); Paresthesia; Seizure; Acute kidney injury; Renal and urinary disorders - Other (nephritis); Renal and urinary disorders - Other (tubulointerstitial nephritis); Bronchopulmonary hemorrhage; Cough; Dyspnea; Hypoxia; Pleural effusion; Pneumonitis; Respiratory failure; Dry skin; Skin and subcutaneous tissue disorders - Other (blister); Skin and subcutaneous tissue disorders - Other (dermatitis); Skin hypopigmentation

<u>A note regarding the effects of MEDI4736 in combination with other agents has been added to the end of the section.</u>

- 2. **Page 93, Section 5.4, Registration Step #2 MEDI4736 Re-Treatment:** A sentence has been added providing contact information for eligibility questions.
- 3. **Page 94, Section 5.4c, Registration Step #2 MEDI4736 Re-Treatment:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - "and prior to Re-TREATMENT registration" has been added to the second sentence
    - "1 day" has been revised to "24 hours"
- 4. **Page 97, Section 7.2a, Treatment Arm 1: MEDI4736:** "for the first year, then every 3 months" has been added to the second sentence in the note.



- 5. **Page 98, Section 7.2c, Treatment Arm 3: MEDI4736 Re-treatment:** "for the first year, then every 3 months" has been added to the second sentence in the note.
- 6. **Pages 101-112, Section 8.3, Dose Modifications for MEDI4736:** This section has been updated as follows:
  - "Immune Mediated Reaction" has been revised to "Immune Related Adverse Events" throughout the section
  - "CTC" has been updated to "CTCAE"
  - Immune-Related Adverse Events: Toxicity Management has been revised to include additional guidelines, specifically to potent immunosuppressive and endocrinopathies
  - Grade 2 for the following toxicities have had the dose modifications updated to include a timeframe for steroid taper: Immune-Related Adverse Events, Pneumonitis/ILD, Diarrhea/Enterocolitis, Hepatitis, Rash, Endocrinopathy, Immune Medicated Neurotoxicity,
  - "4 weeks" has been updated to "28 days"
  - "Study Physician" has been updated to "Study Chair"
  - Rash: Toxicity Management for Grade 3 and 4 has been revised to include additional guidelines, specifically to endocrinopathies
  - "IVIgG" has been revised to "IVIG"
- 7. **Pages 116-117, 120-121, Sections 9.1 and 9.3, Calendar for MEDI4736:** The following footnotes have been updated:
  - In the  $\Omega$  footnote, "for the first year, then every 3 months" has been added.
  - In the ß footnote, "unless otherwise noted." and "for the first year, then every 3 months." have been added.
- 8. **Page 130, Section 15.4a, Radiology Review:** "for the first year, then every 3 months" has been added to the second bullet and to the second paragraph, second sentence.



## <u>S1400B</u>

- 1. **Page 146, Title Page:** The Sub-Study Chairs have been revised; Dr. Corey Lander is now listed as the Chair and Dr. Wade is listed as the Co-Chair.
- 2. **Page 148, Cancer Trials Support Unit (CTSU) Address and Contact Information:** The email address for treatment or toxicity related questions has been updated.
- 3. **Page 149, Schema**: A footnote has been inserted to state that upon progression, patients may be eligible for another sub-study.
- 4. **Page 154, Section 3.1c.1, Taselisib (GDC-0032) NSC 778795:** The Taselisib (GDC-0032) adverse effects section has been replaced with a CTEP Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.1, January 24, 2016. The section has been updated as follows:

Added New Risks:

- <u>Less Likely:</u> Dry mouth, Dyspepsia, Mucositis oral, Aspartate aminotransferase increased, Neutrophil count decrease, Dysgeusia, Dry skin, Skin and subcutaneous tissue disorders (rash)
- <u>Likely</u>: Anorexia
- Increased in Risk Attribution:
  - <u>Changed to Less Likely from Rare but Serious:</u> Abdominal pain, Colitis, Alanine aminotransferase increased, Pruritis

Decreased in Risk Attribution:

Changed to Less Likely from Likely: Vomiting

Removal of Risks:

- <u>Rare but Serious</u>: Anemia, Neutropenia, Lymphopenia, Congestive cardiac failure, Oral pain, Urinary tract infection, Clostridium difficile infection, Increased lipase, Hypokalemia, Hyponatremia, Hypophosphatemia, Peripheral neuropathy, Acute renal failure, Dyspnea, Pneumonia, Hypoxia, Respiratory failure
- Less Likely: Stomatitis, Mucosal inflammation, Pyrexia, Dizziness, Cough, Rash
- Likely: Decreased appetite
- The adverse events also reported on GDC-0032 for which there is insufficient evident to suggest that there was a reasonable possibility that GDC-0032 caused the adverse event have been added: Anemia, Constipation; Oral pain; Sepsis; Cholesterol high; Lymphocyte count decreased; White blood cell decreased; Musculoskeletal and connective tissue disorder Other (muscle spasms); Myalgia; Dizziness; Peripheral sensory neuropathy; Respiratory failure
- 5. **Page 155, Section 3.1c.3, Taselisib (GDC-0032), Drug Interactions:** The following statement has been added to the first paragraph: "GDC-0032 displays weak time-dependent inhibition of CYP3A4 and has the potential to induce CYP3A4/5.".
- 6. **Page 158, Section 5.0, Eligibility Criteria:** A sentence has been added at the end of the instructions providing contact information for eligibility questions.
- 7. **Page 159, Section 5.2g, Clinical laboratory Criteria:** The following criterion has been added:

"Patients must have a Lipase and Amylase performed within 7 days prior to sub-study registration. Additional timepoints are noted in Section 9.0, Study Calendar."

The subsequent sections have been re-numbered accordingly.

8. **Page 159, Section 5.3b, Common Eligibility Criteria:** The eligibility criterion related to progression has been revised from "pre RECIST 1.1 (see Section 10.1)" to "(in the opinion of the treating investigator)".



- 9. **Page 159, Section 5.3c, Common Eligibility Criteria:** The eligibility criterion related to prior therapy has been revised as follows:
  - The third sentence has been replaced with: "Patients must not have received any radiation therapy within 14 days prior to sub-study registration."
  - The last sentence has been removed.
  - A reference to CNS metastases criteria has been added.
- 10. **Page 160, Section 5.3e, Common Eligibility Criteria:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - "and prior to registration" has been added to the second sentence
  - "1 day" has been revised to "24 hours"
- 11. **Page 163, Section 5.4d, Step 2 GDC-0032 Re-Registration:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - "and prior to registration" has been added to the second sentence
  - "1 day" has been revised to "24 hours"
- 12. Page 163, Section 5.4j, Step 2 GDC-0032 Re-Registration: The following criterion has been added:

"Patients must have a Lipase and Amylase performed within 7 days prior to sub-study registration. Additional timepoints are noted in Section 9.0, Study Calendar."

The subsequent sections have been re-numbered accordingly.

- 13. **Page 165, Section 6.0, Stratification Factors:** A sentence has been added regarding the continued stratification by PIK3CA to the first paragraph.
- 14. **Page 167, Section 7.5a, Criteria for Removal from Protocol Treatment:** A footnote \* has been added providing information on new sub-study assignment.
- 15. **Page 167, Section 7.7, Follow-Up Period:** A note has been added for patients that enroll on a new sub-study following progression.

# 16. Pages 179-180, 183-184, Section 9.1, Arm 1 GDC-0032 (Taselisib) and Section 9.3, Arm 3 GDC-0032 (Taselisib) Calendars: The following items have been updated:

- Smoking Status Assessment has been added to Off Tx FU After Progression
- The € footnote has been removed from the Pre-study Laboratory tests
- Laboratory tests have been added to C1W1 with the € footnote noting if the pre-study tests are obtained within 14 days prior to treatment, the tests need not be repeated
- Laboratory tests have been added to Off Tx Follow-up After Progression with the db footnote noting assessments should continue until resolution of all acute adverse events
- The footnote db has been added to the laboratory tests performed at Off Tx follow-up Prior to Progression
- In the  $\Omega$  footnote, "while on treatment" has been removed
- In the β footnote, at the end of the first sentence, the phrase "unless otherwise noted" has been inserted. The Best Practices website has been updated
- The footnote  $\sqrt{}$ , a note has been added for patients that enroll on a new sub-study following progression.
- The footnote € has been revised for clarification
- The footnote ð has been added to the blood for banking noting the off treatment after progression must be collected at first progression after study treatment
- 17. **Page 188, Section 14.4d, Data Submission Overview:** A pre-treatment laboratory form has been added for cycle 1 only.



- 18. **Pages 188-189, Section 14.4g, Data Submission Overview:** A note has been added for patients that enroll on a new sub-study following progression.
- 19. **Page 189, Section 14.4j, Data Submission Overview:** A new section has been added for the request for new sub-study assignment.
- 20. **Page 190, Section 15.2a.1, Peripheral Blood:** "at the time of progression on current treatment or" has been added to the note of the first bullet.



## S1400C

- 1. **Page 200, Title Page:** Dr. Edelman's NCTN Group has been revised to Alliance.
- 2. Page 202, Cancer Trials Support Unit (CTSU) Address and Contact Information: The email address for treatment or toxicity related questions has been updated.
- 3. **Page 203, Schema**: A footnote has been inserted to state that upon progression, patients may be eligible for another sub-study.
- 4. **Pages 208-211, Section 3.1c.1, Palbociclib NSC 772256:** The palbociclib adverse effects section has been replaced with a CTEP Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.2, April 1, 2016. The section has been updated as follows:

Added New Risk:

 <u>Reported but With Insufficient Evidence for Attribution:</u> Ascites; Bone marrow hypocellular; Cataract; Eye disorders - Other (retinal hemorrhage); Gastrointestinal disorders - Other (large intestine perforation); Hepatic failure; Hypoxia; Intra-abdominal hemorrhage; Intracranial hemorrhage; Investigations - Other (pancytopenia); Localized edema; Musculoskeletal and connective tissue disorder - Other (osteomyelitis); Pericarditis; Pneumonitis; Pulmonary edema; Pulmonary hypertension; Small intestinal perforation; Syncope

Increase in Risk Attribution:

- <u>Changed to Likely from Less Likely:</u> Infection
- <u>Changed to Less Likely from Reported but With Insufficient Evidence for Attribution</u>: Dry skin; Headache
- <u>Changed to Rare but Serious from Reported but With Insufficient Evidence for Attribution:</u>
   Thromboembolic event

#### Decrease in Risk Attribution:

- <u>Changed to Less Likely from Likely:</u> Lymphocyte count decreased
- <u>Changed to Reported but With Insufficient Evidence for Attribution from Less Likely:</u> Arthralgia; Blurred vision; Dyspnea; Edema limbs; Flatulence; Hyperglycemia; Nervous system disorders -Other (peripheral neuropathy)

Provided Further Clarification:

- Footnote #3, "Headache has been observed in trials using Palbociclib (PD-0332991) in combination with fuvestrant," has been added.
- Footnote number #4 has been altered to read, "Rash includes rash, rash maculo-papular, erythema, erythematous rash, erysipelas, rash pruritic, rash papular, generalized rash, exanthema, allergic dermatitis, dermatitis acneiform, dermatitis, and palmar-plantar erythrodysesthesia syndrome."

<u>Modified Specific Protocol Exceptions to Expedited Reporting (SPEER) reporting requirements:</u> Column has been removed.

Deleted Risk:

- <u>Reported but With Insufficient Evidence for Attribution:</u> Respiratory, thoracic and mediastinal disorders Other (alveolitis allergic)
- 5. **Page 217, Section 5.0, Eligibility Criteria:** A sentence has been added at the end of the instructions providing contact information for eligibility questions.
- 6. **Page 218, Section 5.2e, Clinical laboratory Criteria:** The following criterion has been added:

"Patients must have a Na, K, Cl, Ca, Mg, and HbA1c performed within 7 days prior to sub-study registration. Additional timepoints are noted in Section 9.0, Study Calendar."



The subsequent sections have been re-numbered accordingly.

- 7. **Page 218, Section 5.3b, Common Eligibility Criteria:** The eligibility criterion related to progression has been revised from "pre RECIST 1.1 (see Section 10.1)" to "(in the opinion of the treating investigator)".
- 8. **Page 219, Section 5.3c, Common Eligibility Criteria:** The eligibility criterion related to prior therapy has been revised as follows:
  - The third sentence has been replaced with: "Patients must not have received any radiation therapy within 14 days prior to sub-study registration."
  - The last sentence has been removed
  - A reference to CNS metastases criteria has been added
- 9. **Page 219, Section 5.3e, Common Eligibility Criteria:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - \* "and prior to registration" has been added to the second sentence
  - "1 day" has been revised to "24 hours"
- 10. **Page 222, Section 5.4d, Step 2 Palbociclib Re-Registration:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - "and prior to registration" has been added to the second sentence
  - "1 day" has been revised to "24 hours"
- 11. **Page 223, Section 5.4j, Step 2 Palbociclib Re-Registration:** The following criterion has been added:

"Patients must have a Na, K, Cl, Ca, Mg, and HbA1c performed within 7 days prior to sub-study registration. Additional timepoints are noted in Section 9.0, Study Calendar."

The subsequent sections have been re-numbered accordingly.

- 12. **Page 231, Section 7.4a, Criteria for Removal from Protocol Treatment:** A footnote \* has been added providing information on new sub-study assignment.
- 13. **Page 231, Section 7.6, Follow-Up Period:** A note has been added for patients that enroll on a new sub-study following progression.
- 14. Pages 238-239, 242-243, Section 9.1, Arm 1 Palbociclib and Section 9.3, Arm 3 Palbociclib Calendars: The following items have been updated:
  - Smoking Status Assessment has been added to Off Tx FU After Progression
  - The € footnote has been removed from the Pre-study Laboratory tests
  - Laboratory tests have been added to C1W1 with the € footnote noting if the pre-study tests are obtained within 14 days prior to treatment, the tests need not be repeated
  - Laboratory tests have been added to Off Tx Follow-up After Progression with the db footnote noting assessments should continue until resolution of all acute adverse events
  - The footnote d has been added to the laboratory tests performed at Off Tx follow-up Prior to Progression
  - In the  $\Omega$  footnote, "while on treatment" has been removed
  - In the β footnote, at the end of the first sentence, the phrase "unless otherwise noted" has been inserted. The Best Practices website has been updated
  - In the footnote  $\sqrt{}$ , a note has been added for patients that enroll on a new sub-study following progression.
  - The footnote € has been revised for clarification
  - The footnote ð has been added to the blood for banking noting the off treatment after progression sample must be collected at first progression after study treatment



- 15. **Page 247, Section 14.4d, Data Submission Overview:** A pre-treatment laboratory form has been added for cycle 1 only.
- 16. **Page 247, Section 14.4g, Data Submission Overview:** A note has been added for patients that enroll on a new sub-study following progression.
- 17. **Page 248, Section 14.4j, Data Submission Overview:** A new section has been added for the request for new sub-study assignment.
- 18. **Page 248-249, Section 15.2a.1, Peripheral Blood, Arm1 and Arm 3:** "at the time of progression on current treatment or" has been added to the note of the first bullet.



#### <u>S1400D</u>

- 1. **Page 258, Title Page:** The email address has been updated for Dr. Primo Lara.
- 2. **Page 260, Cancer Trials Support Unit (CTSU) Address and Contact Information:** The email address for treatment or toxicity related questions has been updated.
- 3. **Page 261, Schema**: A footnote has been inserted to state that upon progression, patients may be eligible for another sub-study.
- 4. **Pages 267-269, Section 3.1c.1, AZD4547 NSC 765338:** The AZD4547 adverse effects section has been replaced with a CTEP Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.2, May 24, 2016. The section has been updated as follows:

Added New Risks:

- Likely: Eye disorders other (retinal pigment epithelium detachment), Constipation; Vomiting; Fatigue; Anorexia
- Less Likely: Anemia; Retinopathy; Abdominal pain; Nausea; Alkaline phosphatase increased; Blood bilirubin increased; Ejection fraction decreased; Neutrophil count decreased; Alopecia; Palmar-plantar erythrodysesthesia syndrome
- Rare but Serious: Electrocardiogram QT corrected interval prolonged

Increase in Risk Attribution:

• Changed from Less Likely to Likely: Diarrhea; Dry mouth; Mucositis oral; Alanine aminotransferase increased; Aspartate aminotransferase increased; Metabolism and nutrition disorders – Other (hyperphosphatemia)

Removal of Risks: Eye disorders - Other (chorioretinopathy)

The adverse events also reported on AZD4547 for which there is insufficient evident to suggest that there was a reasonable possibility that AZD4547 caused the adverse event have been replaced: Pericardial effusion; Sinus bradycardia; Sinus tachycardia; Supraventricular tachycardia; Retinal detachment; Dyspepsia; Dysphagia; Hemorrhoids; Oral pain; Edema limbs; Fever; Malaise; Hepatobiliary disorders - Other (bile duct obstruction); Hepatobiliary disorders - Other (hepatomegaly); Hepatobiliary disorders - Other (jaundice); Paronychia; Sepsis; Upper respiratory infection; Urinary tract infection; Cardiac troponin T increased; GGT increased; Investigations - Other (increase in LVEF); Dehydration; Hyperkalemia; Hypocalcemia; Hypokalemia; Hyponatremia; Hypophosphatemia; Back pain; Musculoskeletal and connective tissue disorder - Other (groin pain); Pain in extremity; Lethargy; Peripheral sensory neuropathy; Insomnia; Acute kidney injury; Dyspnea; Epistaxis; Nasal congestion; Pleural effusion; Pleuritic pain; Respiratory failure; Respiratory, thoracic and mediastinal disorders - Other (breath sounds abnormal); Rash maculo-papular; Hypotension

- 5. **Page 272, Section 5.0, Eligibility Criteria:** A sentence has been added at the end of the instructions providing contact information for eligibility questions.
- 6. Page 273, Section 5.2k, Clinical laboratory Criteria: The following criterion has been added:

"Patients must have albumin, urinalysis, and Troponin I obtained within 7 days prior to sub-study registration."

The subsequent sections have been re-numbered accordingly.

- 7. Page 273, Section 5.2I, Clinical laboratory Criteria: A corrected calcium equation has been added.
- 8. **Page 274, Section 5.3b, Common Eligibility Criteria:** The eligibility criterion related to progression has been revised from "pre RECIST 1.1 (see Section 10.1)" to "(in the opinion of the treating investigator)".



- 9. **Page 274, Section 5.3c, Common Eligibility Criteria:** The eligibility criterion related to prior therapy has been revised as follows:
  - The third sentence has been replaced with: "Patients must not have received any radiation therapy within 14 days prior to sub-study registration."
  - The last sentence has been removed
  - A reference to CNS metastases criteria has been added
- 10. **Page 275, Section 5.3e, Common Eligibility Criteria:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - "and prior to registration" has been added to the second sentence
  - "1 day" has been revised to "24 hours"
- 11. **Page 278, Section 5.4d, Step 2 AZD4547 Re-Registration:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - "and prior to registration" has been added to the second sentence
  - "1 day" has been revised to "24 hours"
- 12. Page 278, Section 5.4f, Step 2 AZD4547 Re-Registration: The following criterion has been added:

"Patients must have albumin, urinalysis, and Troponin I obtained within 7 days prior to sub-study registration."

The subsequent sections have been re-numbered accordingly.

- 13. Page 278, Section 5.4g, Step 2 AZD4547 Re-Registration: A corrected calcium equation has been added.
- 14. **Page 282, Section 7.4a, Criteria for Removal from Protocol Treatment:** A footnote \* has been added providing information on new sub-study assignment.
- 15. **Page 283, Section 7.6, Follow-Up Period:** A note has been added for patients that enroll on a new sub-study following progression.
- 16. **Page 283, Section 8.2b, General Considerations:** This section has been added to provide information on radiation therapy needed while on study treatment.
- 17. Pages 289-291, 294-296, Section 9.1, Arm 1 AZD4547 and Section 9.3, Arm 3 AZD4547 Calendars: The following items have been updated:
  - Smoking Status Assessment has been added to Off Tx FU After Progression
  - The € footnote has been removed from the Pre-study Laboratory tests
  - Laboratory tests have been added to C1W1 with the € footnote noting if the pre-study tests are obtained within 14 days prior to treatment, the tests need not be repeated
  - Albumin testing has been added to C1W1, W2, W3, C2W4,C3W7, C4W10, and subsequent cycles because this is needed to calculate the corrected calcium. The footnote ¥ has been removed
  - Laboratory tests have been added to Off Tx Follow-up After Progression with the db footnote noting assessments should continue until resolution of all acute adverse events
  - The footnote db has been added to the laboratory tests performed at Off Tx follow-up Prior to Progression
  - In the  $\beta$  footnote, the Best Practices website has been updated
  - The footnote  $\sqrt{}$ , a note has been added for patients that enroll on a new sub-study following progression.
  - The footnote ¥ has been revised to reflect a single test
  - The footnote € has been revised for clarification.
  - The footnote ð has been added to the blood for banking noting the off treatment after progression must be collected at first progression after study treatment



- 19. **Page 299, Section 14.4d, Data Submission Overview:** A pre-treatment laboratory form has been added for cycle 1 only.
- 20. **Page 299, Section 14.4g, Data Submission Overview:** A note has been added for patients that enroll on a new sub-study following progression.
- 21. **Page 301, Section 14.4j, Data Submission Overview:** A new section has been added for the request for new sub-study assignment.
- 22. **Page 301, Section 15.2a.1, Peripheral Blood:** "at the time of progression on current treatment or" has been added to the note of the first bullet.



#### <u>S1400I</u>

- 1. **Page 363, Title Page:** The Bristol Myers Squibb Protocol number has been added. Dr. Joseph Unger and Dr. Susan S. Tavernier has have been added to the title page.
- 2. Page 365, Cancer Trials Support Unit (CTSU) Address and Contact Information: The email address for treatment or toxicity related questions has been updated.
- 3. **Page 367, Section 1.3b, Translational Medicine Objectives:** An objective has been added for the patient reported outcomes (PROs).
- 4. **Pages 380 and 389, Section 3.1i.1 and 3.2g.1, Drug ordering:** Two sentences have been added informing sites that drug supplies will be provided once a patient has been randomized and starter supplies will not be provided.
- 5. **Page 391, Section 5.0, Eligibility Criteria:** A sentence has been added at the end of the instructions providing contact information for eligibility questions.
- 6. **Page 392, Section 5.2g, Clinical Laboratory Criteria:** An eligibility criterion related to laboratory tests that are required prior to sub-study registration has been added.
- 7. **Page 392, Section 5.2h, Clinical Laboratory Criteria:** An eligibility criterion related to the patient reported outcomes has been added.
- 8. **Page 392, Section 5.3b, Common Eligibility Criteria:** The eligibility criterion related to progression has been revised from "pre RECIST 1.1 (see Section 10.1)" to "(in the opinion of the treating investigator)".
- 9. **Page 393, Section 5.3c, Common Eligibility Criteria:** The eligibility criterion related to prior therapy has been revised as follows:
  - The third sentence has been replaced with: "Patients must not have received any radiation therapy within 14 days prior to sub-study registration."
  - The last sentence has been removed
  - A reference to CNS metastases criteria has been added
- 10. **Page 393, Section 5.3e, Common Eligibility Criteria:** The eligibility criterion related to CT/MRI scans has been revised as follows:
  - "and prior to registration" has been added to the second sentence
  - "1 day" has been revised to "24 hours"
- 11. **Page 396, Section 7.1, Pre-Medication and Supportive Care:** A statement has been added regarding premedication for the use of prophylaxis for infusion reactions at the end of the first paragraph. The second paragraph has been moved below the third paragraph for a better flow.
- 12. **Page 397, Section 7.2a, Arm1: Nivolumab plus Ipilimumab:** "q" has been added to the cycle schedule of ipilimumab for clarification. Statements have been added to clarify the order of administration and the delay between dosing. A paragraph has been added to provide information on dose recalculations based on weight.
- 13. **Page 397, Section 7.2b, Arm 2:** Nivolumab: A paragraph has been added to provide information on dose recalculations based on weight.
- 14. **Page 397, Section 7.3a, Criteria for Removal from Protocol Treatment:** The last sentence has been replaced with "Patients should still be removed from protocol treatment for criteria below."



- 15. **Pages 398-402, Sections 8.3 and 8.4, Dose Modifications:** The order of the sections has been switched. Nivolumab/Ipilimumab Arm has been corrected to Arm 1 and Nivolumab Arm has been corrected to Arm 2 to be consistent with Section 7 and Section 9.
- 16. **Pages 414-415, Section 9.0, Study Calendars:** The following items have been updated:
  - Smoking Status Assessment has been added to Off Tx FU After Progression

  - The EQ-5Dhas been added at Pre-study, Wk5, Wk7, Wk9, Subsequent cycles, Off Tx FU Prior to Prog and Off Tx FU After Prog. The footnote 
     has been added noting the details of PROs and EQ-5D questionnaires.
  - The € footnote has been removed from the Pre-study Laboratory tests
  - Laboratory tests have been added to C1W1 with the € footnote
  - The LDH testing has been removed from Wk3, Wk5, Wk7, Wk9, Wk11, and Subsequent cycles
  - Laboratory tests have been added to Off Tx Follow-up After Progression with the db
    footnote noting assessments should continue until resolution of all acute adverse events
  - The footnote db has been added to the laboratory tests performed at Off Tx follow-up Prior to Progression
  - In the footnote  $\pi$ , "until disease progression" has been replaced with "while on treatment"
  - The footnote € has been revised for clarification.
  - The footnote w has been added to Ipilimumab noting the treatment administration of subsequent cycles
  - The footnote ð has been added to the blood for banking noting the off treatment after progression sample must be collected at first progression after study treatment
- 17. **Page 416, Section 10.0, Criteria for Evaluation and Endpoint Analysis:** A statement has been added for the evaluation and endpoint analysis of PROs.
- 18. **Page 418, Section 11.5, Translational Medicine:** This section has been added to reference the location of the statistical considerations for PROs.
- 19. **Page 420, Section 14.4c, Data Submission Overview:** This section has been inserted to provide information on forms to be submitted for patients participating in the PROs. The subsequent sections have been re-numbered accordingly.
- 20. **Page 420, Section 14.4d, Data Submission Overview:** This section has been inserted to provide information on forms to be submitted for patients participating in the PROs EQ-5D Questionnaire.
- 21. **Page 420, Section 14.4e, Data Submission Overview:** A pre-treatment laboratory form has been added for cycle 1 only.
- 22. **Page 422, Section 15.2a.1, Peripheral Blood:** "at the time of progression on current treatment or" has been added to the note of the first bullet.
- 23. Page 424, Section 15.5, S1400I PRO Questionnaire Administration Instructions: This section has been added.
- 24. **Pages 433 and 435, Section 18.1, Translational Medicine PD-L1 IHC Testing:** "Lab# 167" has been added to the contact information for Dr. Hirsch's lab.
- 25. Pages 437-450, Section 18.2, Translational Medicine S1400I Patient Reported Outcomes (PRO): This section has been added.



#### Model Consent Forms Changes

The following section refers to changes made to the Model Consent Form. Please refer to the IRB Review Requirements section on Page 1 of this memo.

- 1. The Version Date has been updated.
- 2. Pages 12 [S1400], 27 [S1400PS], 42 [S1400A], 56 [S1400B], 70 [S1400C], 84 [S1400D], 114 [S1400I], "What are the possible risks?": The duplicated sentence, "There are laws against misuse of genetic information, but they may not give full protection." has been removed.
- 3. **Page 16 [S1400PS], Title Page:** "first-line" has been replaced with "current" in the title.
- 4. **Page 36 [S1400A], "What extra tests and procedures...":** "for the first year, then every 3 months" has been added to the first sentence of the first paragraph.
- 5. **Pages 37-40 [S1400A], "What possible risks...":** The following changes have been made to the MEDI4736 side effects information:

<u>Decreased in attribution from Common, some may be Serious (Likely) to Occasional, some may be</u> <u>Serious (Less-Likely):</u>

- Nausea
- Tiredness

Removed from Occasional, some may be Serious (Less-Likely):

- Anemia which may require blood transfusions
- Constipation, belly pain
- Pain or burning during urination, frequent urination
- Severe loss of body water
- Dizziness
- Headaches
- Shortness of breath, wheezing
- Cough
- Chest pain, joint pain, back pain, muscle pain
- Fever
- Chills
- Swelling of arms, legs, or face
- Added to Occasional, some may be Serious (Less-Likely):
  - Cavities, tooth decay

Removed from Rare, and Serious (Rare, but Serious):

- Severe blood infection
- Numbness and tingling in arms and legs
- Infection of the lungs, may cause cough, fever, shortness of breath
- 6. **Page 49 [S1400B], 63 [S1400C], 77 [S1400D], "How long will I be in this study?":** A paragraph has been added to inform patients of the option to screen for another sub-study after progression on the current sub-study.

7. **Page 51 [S1400B], "What possible risks...":** The following changes have been made to the GDC-0032 side effects information:

Added to Occasional, some may be Serious (Less-Likely):

- Heartburn
- Changes in taste
- Dry mouth, skin
- Pain
- Itching rash

Added to Rare and Serious (Rare, but Serious):

Swelling of the lungs which may cause shortness of breath

Decreased in Risk Attribution:

Vomiting

Removed from Common, some may be Serious (Likely):



High blood sugar

Removed from Occasional, some may be Serious (Less-Likely):

- Fever
- Dizziness
- Cough
- Removed from Rare, and Serious (Rare, but Serious):
  - Anemia which may require blood transfusions
    - Congestive heart failure
  - Watery diarrhea
  - Dizziness, shortness of breath, mental confusion due to lack of oxygen in body
  - Infection, especially when white blood cell count is low
  - Oral pain
  - Pain or burning during urination, frequent urination
  - Belly pain
  - Numbness and tingling in arms and legs
  - Kidney damage, kidney failure
  - Infection of the lungs, may cause cough, fever, shortness of breath
  - Itching skin rash
- 8. **Page 65 [S1400C]**, "What possible risks...": The following changes have been made to the palbociclib side effects information:

#### Increase in Risk Attribution:

- <u>Changed to Occasional from Reported but With Insufficient Evidence for Attribution:</u> Headache; Dry skin
- <u>Changed to Rare and Serious from Reported but With Insufficient Evidence for</u> <u>Attribution</u>: Blood clot which may cause swelling, pain, shortness of breath

#### **Decrease in Risk Attribution:**

 <u>Changed to Reported but With Insufficient Evidence for Attribution from Occasional (i.e.,</u> removed from the Risk Profile): Pain in joints; Blurred vision; Swelling of arms, legs; Passing gas; Numbness, tingling or pain of the arms and legs; Muscle weakness

#### Provided Further Clarification:

- Shortness of breath (previously under Occasional) is now listed as a symptom of Blood clot which may cause swelling, pain, shortness of breath (under Rare and Serious).
- 9. **Page 69 [S1400C], "What is involved?":** "If you are on the palbociclib arm," has been removed from the second bullet. "Rarely, patients may experience partial lung collapse that may require a chest tube or even a breathing machine. The samples will be kept until they are used up." has been added to the end of the fourth bullet.
- 10. **Page 78 [S1400D], "What extra tests and procedures…":** "blood tests to check" has been added to the fifth bullet.
- 11. **Pages 79-80 [S1400D], "What possible risks...":** Patients currently receiving AZD4547 and patients who sign a consent form prior to local implementation of the consent form changes must be informed of the bolded changes below. The manner by which this notification takes place is at the discretion of the local institution. At a minimum, the patient must be notified by the next visit and this notification process must be documented in the patient chart. The following changes have been made to the AZD4547 side effects information:

Increased in attribution from Occasional, some may be serious (Less-Likely) to Common, some may be serious (Likely):

- Dry mouth
- Visual changes (updated from "Visual loss")
- Diarrhea



Sores in mouth which may cause difficulty swallowing

Added to Common, some may be serious (Likely):

- Constipation, vomiting
- Tiredness
- Loss of appetite

Added to Occasional, some may be serious (Less-Likely):

- Anemia which may require blood transfusion
- Belly pain
- Nausea
- Change in heart function
- Hair loss
- Redness, pain or peeling of palms and soles

Added to Rare, and serious

#### Change in the heart rhythm

Removed from Occasional some may be Serious (Less-Likely):

- Swelling on the inside of the eye
- 12. **Page 105 [S1400I], "What extra tests and procedures…":** The "before you begin the study" has been updated as follows:
  - EKG procedure has been removed
  - Questionnaires have been added
- 13. **Page 106 [S1400I], "What extra tests and procedures...":** The "during the study" has been updated as follows:
  - Questionnaires have been added
  - "on Day 1 of each cycle" has been updated to "every 6 weeks" in the first sentence of the first paragraph
  - A paragraph has been added to inform patients of the details of the questionnaires

Due to the extensive repagination, an entire replacement protocol is attached. Please discard any previous versions of the protocol and attach this memorandum to the front of your copy of <u>S1400</u>. This memorandum serves to notify the NCI and the SWOG Statistical Center.

**PROTOCOL & INFORMATION OFFICE** CC: Hossein Borghaei, D.O. James L. Wade III, M.D.Corey J. Langer, M.D. Martin J. Edelman, M.D. Charu Aggarwal, M.D., M.P. Mark A. Socinski, M.D. Scott Gettinger, M.D. Lyudmila A. Bazhenova, M.D. Mary Redman, Ph.D. James Moon, M.S. Shannon McDonough, M.S. Jieling Miao, M.S. Katherine Griffin, M.S. Monica Yee, B.A. Louise Highleyman Kara Amber MedImmune, LLC. Genentech. Inc. Pfizer, Inc. AstraZeneca **Bristol Myers Squib** Foundation Medicine Inc. TRIAD

Nationwide



## Informed Consent Addendum Model for S1400D

<u>S1400</u>, "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer"

**<u>S1400D</u>**, "A Phase II Study of AZD4547 for Previously Treated FGFR-Positive Patients with Stage IV Squamous Cell Lung Cancer (Lung-MAP Sub-Study)"

## \*NOTES FOR LOCAL INSTITUTION INFORMED CONSENT AUTHORS:

The purpose of a consent addendum is to:

- Inform patients of any significant new findings developed during the course of participation that may have a bearing on their willingness to continue in the study.
- Inform patients of specific changes (rather than having them sign a modified consent). The addendum will facilitate discussion since the changes/new findings are the focus of the document.

This consent addendum has been prepared for patients currently registered to S1400D and/or receiving the study drug, AZD4547

The following information should be read as an addition to the original Consent form that you read and signed at the beginning of the study. Unless specifically stated otherwise in the following paragraphs, all information contained in that original Consent Form is still true and remains in effect. Your participation continues to be voluntary. You may refuse to participate, or may withdraw your consent to participate at any time, and for any reason, without jeopardizing your future care at this institution or your relationship with your study doctor.

## New or additional information

The tables provided below show the most common and the most serious side effects that researchers know about related to AZD4547. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you.



### COMMON, SOME MAY BE SERIOUS

In 100 people receiving AZD4547, more than 20 and up to 100 may have:

- Visual changes
- Constipation, diarrhea, vomiting
- Dry mouth
- Sores in the mouth which may cause difficulty swallowing
- Tiredness
- Loss of appetite

### **OCCASIONAL, SOME MAY BE SERIOUS**

In 100 people receiving AZD4547, from 4 to 20 may have:

- Anemia which may require blood transfusion
- Dry eye, skin
- Swelling and redness of the eye
- Belly pain
- Nausea
- Change in heart function
- Changes in taste
- Hair loss
- Redness, pain or peeling of palms and soles
- Change in or loss of some or all of the finger or toenails

### RARE, AND SERIOUS

In 100 people receiving AZD4547, 3 or fewer may have:

• Change in the heart rhythm

## My Signature Agreeing to Take Part in the Study

I have read this consent form or had it read to me. I have discussed it with the study doctor and my questions have been answered. I will be given a signed copy of this form. I agree to take part in the main study *and any additional studies where I circled 'yes'*.

Participant's signature\_\_\_\_\_

Date of signature\_\_\_\_\_





National Institutes of Health National Cancer Institute Bethesda, Maryland 20892

# **Action Letter for Study S1400**

- **DATE:** August 2, 2016
- **FROM:** Meg Mooney, MD, Branch Chief, CIB, CTEP, DCTD, NCI
- SUBJECT: CONFIDENTIAL COMMUNICATION Action Letter for S1400 Study (A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer – LUNG-MAP) Involving the Following Sub-Studies and Associated Agents:
  - Sub-Study 1400A: A Phase II Study of MEDI4736 for Previously Treated Patients with Stage IV Squamous Cell Lung Cancer and No Matching Biomarkers (Agent: MEDI4736; NSC 778709)
  - Sub-Study 1400B: A Phase II Study of GDC-0032 (taselisib) for Previously Treated PI3K Positive Patients with Stage IV Squamous Cell Lung Cancer (Agent: GDC-0032; NSC 778795)
  - Sub-Study 1400C: A Phase II Study of Palbociclib for Previously Treated Cell Cycle Gene Alteration Positive Patients with Stage IV Squamous Cell Lung Cancer (Agent: PD-0332991, NSC 772256)
  - Sub-Study 1400D: A Phase II Study of AZD4547 for Previously Treated FGFR-Positive Patients with Stage IV Squamous Cell Lung Cancer (Agent: AZD4547; NSC 765338)
- TO: Principal Investigators and Protocol Coordinators of the CTEP-supported S1400 and Associated Sub-Studies Involving Associated Agents MEDI4736 (NSC 778709), GDC-0032 (NSC 778795), PD-0332991 (NSC 772256), and AZD4547 (NSC 765338)

The purpose of this Action Letter is to alert patients and investigators in studies conducted by the Cancer Therapy Evaluation Program (CTEP), National Cancer Institute (NCI), of new and/or modified risk information associated with MEDI4736, GDC-0032, PD-0332991, and AZD4547.

The SWOG clinical trials Operations Office is receiving this letter because it is conducting the S1400 trial (which includes associated sub-studies) which involves all these agents. After review of all the available data, CTEP believes that the new and/or modified risk information for all these agents does not significantly alter the risk-benefit profile for patients in the S1400 study and its associated sub-studies since these agents are already known to cause serious adverse events and the new/modified risk information does not change the overall weight given to risks versus benefits for patients in S1400 and the associated sub-studies. CTEP considers all the proposed protocol and informed consent changes for S1400 and the associated sub-studies affected by this Action Letter to be minor.

SWOG has prepared an amendment for S1400 and the associated sub-studies to include this new/modified risk information for these agents and other general and administrative information that has been approved by CTEP and the NCI Central Institutional Review Board (NCI CIRB). The CTEP and NCI CIRB-approved amendment is being distributed by SWOG for the S1400 study along with this Action Letter. For S1400 participating sites that use a local Institutional Review Board (IRB) as the IRB of record for the S1400 study, the local IRB will decide whether it can review the CTEP-approved amendment through the expedited review procedure authorized by 45 CFR 46.110 and 21 CFR 56.110 since the amendment includes the new/modified risk information for the agents <u>as well as</u> other general and administrative information.

The following sections, *Specific Amendment Instructions*, include background information on the risk(s) and any risk mitigation strategies included in the CTEP-approved amendment for each sub-study (i.e., S1400A, S1400B, S1400C, and S1400D). The revised Comprehensive Adverse Events and Potential Risks (CAEPR) list (Attachment 1) and Informed Consent Document (ICD) risk information (Attachment 2) are also included for each sub-study.

Action Letter GENERAL INSTRUCTIONS for distribution of the S1400 Action Letter with the CTEPapproved amendment are included in Attachment 3. You MUST follow the instructions outlined in Attachment 3 on the last two pages of this Action Letter.

### SPECIFIC AMENDMENT INSTRUCTIONS FOR NEW/MODIFIED RISK INFORMATION – Sub-Study 1400A (MEDI4736; NSC 778709)

#### **Background**

As part of Good Clinical Practice, CTEP reviews and generates a CAEPR list for agents on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has generated risk information associated with MEDI4736.

### Attachment 1 - S1400 Sub-Study 1400A: MEDI4736 CAEPR – Version 2.0, February 2, 2016

### **Comprehensive Adverse Events and Potential Risks list (CAEPR)** for MEDI4736 (NSC 778709)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf for further clarification. Frequency is provided based on 1432 patients. Below is the CAEPR for MEDI4736.

NOTE: Report AEs on the SPEER ONLY IF they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

		Ver	sion 2.0, February 2, 2016 <sup>1</sup>
	Adverse Events with Possible Relationship to MEDI4736 (CTCAE 4.0 Term) [n= 1432]		Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
ENDOCRINE DISORDERS	•		
	Hypothyroidism		
GASTROINTESTINAL DISOR	DERS		
	Dental caries		
	Diarrhea		
	Nausea		
	Vomiting		
GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS			
	Fatigue		Fatigue (Gr 2)
METABOLISM AND NUTRITION DISORDERS			
	Anorexia		
SKIN AND SUBCUTANEOUS TISSUE DISORDERS			
	Pruritus		
	Rash maculo-papular		

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV</u>. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.

Adverse events reported on MEDI4736 trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that MEDI4736 caused the adverse event:

BLOOD AND LYMPHATIC SYSTEM DISORDERS - Anemia; Disseminated intravascular coagulation

**CARDIAC DISORDERS** - Atrial flutter; Cardiac disorders - Other (coronary artery disease); Pericardial effusion; Pericardial tamponade

EAR AND LABYRINTH DISORDERS - Hearing impaired

ENDOCRINE DISORDERS - Adrenal insufficiency; Hyperthyroidism

EYE DISORDERS - Eye disorders - Other (choroidal effusion with shut down of ciliary body)

**GASTROINTESTINAL DISORDERS** - Abdominal pain; Colitis; Esophageal perforation; Gastrointestinal disorders - Other (gastrointestinal hemorrhage); Proctitis; Small intestinal obstruction; Upper gastrointestinal hemorrhage

**GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS** - Edema limbs; Fever; Infusion related reaction; Non-cardiac chest pain

HEPATOBILIARY DISORDERS - Hepatic hemorrhage; Hepatobiliary disorders - Other (hepatitis)

**IMMUNE SYSTEM DISORDERS** - Immune system disorders - Other (drug-induced liver injury)

**INFECTIONS AND INFESTATIONS** - Infections and infestations - Other (liver abscess); Lung infection; Rash pustular; Urinary tract infection

**INVESTIGATIONS** - Alanine aminotransferase increased; Aspartate aminotransferase increased; GGT increased; Investigations - Other (electrocardiogram T wave inversion); Neutrophil count decreased; Platelet count decreased; Serum amylase increased; Weight loss; White blood cell decreased

**METABOLISM AND NUTRITION DISORDERS** - Dehydration; Hypercalcemia; Hyperglycemia; Hypomagnesemia; Hyponatremia

MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS - Arthralgia; Arthritis; Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis); Myalgia

**NEOPLASMS BENIGN, MALIGNANT AND UNSPECIFIED (INCL CYSTS AND POLYPS)** - Neoplasms benign, malignant and unspecified (incl cysts and polyps) - Other (tumor hemorrhage); Treatment related secondary malignancy; Tumor pain

**NERVOUS SYSTEM DISORDERS**- Ataxia; Dizziness; Edema cerebral; Headache; Nervous system disorders - Other (hemiparesis); Nervous system disorders - Other (axonal neuropathy); Paresthesia; Seizure

**RENAL AND URINARY DISORDERS** - Acute kidney injury; Renal and urinary disorders - Other (nephritis); Renal and urinary disorders - Other (tubulointerstitial nephritis)

**RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS** - Bronchopulmonary hemorrhage; Cough; Dyspnea; Hypoxia; Pleural effusion; Pneumonitis; Respiratory failure

**SKIN AND SUBCUTANEOUS TISSUE DISORDERS** - Dry skin; Skin and subcutaneous tissue disorders - Other (blister); Skin and subcutaneous tissue disorders - Other (dermatitis); Skin hypopigmentation

**Note**: MEDI4736 in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

### Attachment 2 - S1400 Sub-Study 1400A: ICD Section(s) for MEDI4736

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed format. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the informed consent document. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. <u>Please insert this condensed risk profile as the Table of Possible Side Effects for MEDI4736 in your ICD.</u>

### Risk Profile for MEDI4736 (CAEPR Version 2.0, February 2, 2016)

**NOTE:** The risk list section in the new NCI Consent Form Template (latest version: May 2013) will include the wording below:

"If you choose to take part in this study, there is a risk that:

- You may lose time at work or home and spend more time in the hospital or doctor's office than usual
- You may be asked sensitive or private questions which you normally do not discuss

The MEDI4736 used in this study may affect how different parts of your body work such as your liver, kidneys, heart, and blood. The study doctor will be testing your blood and will let you know if changes occur that may affect your health.

There is also a risk that you could have side effects from the study drug(s)/study approach.

Here are important points about side effects:

- The study doctors do not know who will or will not have side effects.
- Some side effects may go away soon, some may last a long time, or some may never go away.
- Some side effects may interfere with your ability to have children.
- Some side effects may be serious and may even result in death.

Here are important points about how you and the study doctor can make side effects less of a problem:

- Tell the study doctor if you notice or feel anything different so they can see if you are having a side effect.
- The study doctor may be able to treat some side effects.
- The study doctor may adjust the study drugs to try to reduce side effects.

The tables below show the most common and the most serious side effects that researchers know about. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you."

Please insert this condensed risk profile as the Table of Possible Side Effects for MEDI4736 in your ICD.

### OCCASIONAL, SOME MAY BE SERIOUS

In 100 people receiving MEDI4736, from 4 to 20 may have:

- Cavities, tooth decay
- Diarrhea, nausea, vomiting
- Tiredness
- Loss of appetite
- Itching, rash

# SPECIFIC AMENDMENT INSTRUCTIONS FOR NEW/MODIFIED RISK INFORMATION – Sub-Study 1400B (GDC-0032; NSC 778795)

#### Background

As part of Good Clinical Practice, CTEP reviews each CAEPR list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with GDC-0032.

#### Detailed Description of Required Protocol Changes for the Amendment/ Sample Change Memo Template

1) <u>New Protocol Amendment/Version Date Included on the Title/Cover Page per Operations Office Policy:</u>

Protocol Cover Page: Page Number(s): \_\_\_\_\_ Version Date: \_\_\_\_\_

2) <u>Revision of the Protocol CAEPR:</u>

Protocol Section(s) for Insertion of Revised CAEPR (Version 2.1, August 18, 2015): \_\_\_\_\_ Page Number(s): \_\_\_\_\_

- Added New Risk:
  - Less Likely: Abdominal pain; Alanine aminotransferase increased
  - <u>Also Reported on GDC-0032 Trials But With Insufficient Evidence for Attribution:</u> Constipation; Dizziness; Lymphocyte count decreased; Myalgia; Respiratory failure; Sepsis
- Increase in Risk Attribution:
  - <u>Changed to Less Likely from Reported but With Insufficient Evidence for Attribution</u>: Aspartate aminotransferase increased; Dry mouth; Neutrophil count decreased; Pruritus
- Decrease in Risk Attribution:
  - <u>Changed to Less Likely from Likely</u>: Skin and subcutaneous tissue disorders (rash)
- <u>Provided Further Clarification:</u>
  - Footnote #2 has been altered to read: "Rash may include rash, rash erythematous, rash follicular, rash generalized, rash macular, rash maculo-papular, rash maculovesicular, rash morbilliform, rash papular, rash papulosquamous, rash pruritic, rash pustular, and rash vesicular."
- Modified Specific Protocol Exceptions to Expedited Reporting (SPEER) reporting requirements:
  - <u>Added:</u> Anorexia; Fatigue; Nausea; Vomiting

<u>PLEASE NOTE</u>: The specific detailed changes listed here compare the new revised CAEPR Version 2.1, and associated risk information for the Informed Consent Document (ICD), to the most recent CAEPR Version 2.0. If your trial contains an older CAEPR version (i.e., does <u>NOT</u> currently contain CAEPR Version 2.0), you <u>MUST</u> include a description of any additional changes resulting from migration from the older CAEPR version.

#### 3) <u>Revision of the ICD as Specified Below:</u>

The terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed form. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the informed consent document. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo.

- Increase in Risk Attribution:
  - Changed to Occasional from Reported but With Insufficient Evidence for Attribution: Dry mouth
- Decrease in Risk Attribution:
  - Changed to Occasional from Common: Itching; Rash
- <u>Provided Further Clarification:</u>
  - Belly pain (under Occasional) is now reported as Pain (under Occasional)

<u>PLEASE NOTE</u>: The potential risks listed in the CAEPR whose relationship to GDC-0032 is still undetermined are not required by CTEP to be described in the ICD; however, they may be communicated to patients according to local IRB requirements.

#### Attachment 1 - S1400 Sub-Study 1400B: Revised GDC 0032 CAEPR – Version 2.1, January 24, 2016

### Comprehensive Adverse Events and Potential Risks list (CAEPR) for GDC-0032 (Taselisib, NSC 778795)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' <a href="http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf">http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf</a> for further clarification. *Frequency is provided based on 425 patients*. Below is the CAEPR for GDC-0032 (taselisib).

**NOTE**: Report AEs on the SPEER <u>**ONLY IF**</u> they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

		V	ersion 2.1, January 24, 2016 <sup>1</sup>
Adverse Events with Possible Relationship to GDC-0032 (taselisib) (CTCAE 4.0 Term) [n= 425]			Specific Protocol Exceptions to Expedited Reporting
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
GASTROINTESTINAL DIS	SORDERS		
	Abdominal pain		
	Colitis		Colitis (Gr 2)
Diarrhea			Diarrhea (Gr 2)
	Dry mouth		
	Dyspepsia		
	Mucositis oral		Mucositis oral (Gr 3)
Nausea			Nausea (Gr 2)
	Vomiting		Vomiting (Gr 2)
GENERAL DISORDERS AND	D ADMINISTRATION SITE CONDITION	٧S	
Fatigue			Fatigue (Gr 2)
INVESTIGATIONS			
	Alanine aminotransferase increased		
	Aspartate aminotransferase increased		
	Neutrophil count decreased		
METABOLISM AND NUT	RITION DISORDERS		
Anorexia			Anorexia (Gr 2)
Hyperglycemia			Hyperglycemia (Gr 3)
NERVOUS SYSTEM DISO	ORDERS		
	Dysgeusia		
RESPIRATORY, THORAC	TIC AND MEDIASTINAL DISORDE	RS	
		Pneumonitis	
SKIN AND SUBCUTANEO	OUS TISSUE DISORDERS		
	Dry skin		
	Pruritus		

R	Adverse Events with Possible Relationship to GDC-0032 (taselisib) (CTCAE 4.0 Term) [n= 425]		
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
	Skin and subcutaneous tissue disorders (rash) <sup>2</sup>		Skin and subcutaneous tissue disorders (rash) <sup>2</sup> (Gr 3)

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV</u>. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.

<sup>2</sup>Rash may include rash, rash erythematous, rash follicular, rash generalized, rash macular, rash maculo-papular, rash maculovesicular, rash morbilliform, rash papular, rash papulosquamous, rash pruritic, rash pustular, and rash vesicular.

Adverse events reported on GDC-0032 (taselisib) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility GDC-0032 (taselisib) caused the adverse event:

BLOOD AND LYMPHATIC SYSTEM DISORDERS - Anemia GASTROINTESTINAL DISORDERS - Constipation; Oral pain INFECTIONS AND INFESTATIONS - Sepsis INVESTIGATIONS - Cholesterol high; Lymphocyte count decreased; White blood cell decreased MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS - Musculoskeletal and connective tissue disorder - Other (muscle spasms); Myalgia NERVOUS SYSTEM DISORDERS - Dizziness; Peripheral sensory neuropathy RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS - Respiratory failure

**Note**: GDC-0032 (taselisib) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

### Attachment 2 - S1400 Sub-Study 1400B: Revised ICD section(s) for GDC-0032

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in a "patient-friendly" condensed form. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the informed consent document. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. Please insert this condensed risk profile as the Table of Possible Side Effects for GDC 0032 in your ICD.

### Risk Profile for GDC-0032 (CAEPR Version 2.1, January 24, 2016)

**NOTE:** The risk list section in the new NCI Consent Form Template (latest version: May 2013) will include the wording below:

"If you choose to take part in this study, there is a risk that:

- You may lose time at work or home and spend more time in the hospital or doctor's office than usual
- You may be asked sensitive or private questions which you normally do not discuss

The GDC-0032 used in this study may affect how different parts of your body work such as your liver, kidneys, heart, and blood. The study doctor will be testing your blood and will let you know if changes occur that may affect your health.

There is also a risk that you could have side effects from the study drug(s)/study approach.

Here are important points about side effects:

- The study doctors do not know who will or will not have side effects.
- Some side effects may go away soon, some may last a long time, or some may never go away.
- Some side effects may interfere with your ability to have children.
- Some side effects may be serious and may even result in death.

Here are important points about how you and the study doctor can make side effects less of a problem:

- Tell the study doctor if you notice or feel anything different so they can see if you are having a side effect.
- The study doctor may be able to treat some side effects.
- The study doctor may adjust the study drugs to try to reduce side effects.

The tables below show the most common and the most serious side effects that researchers know about. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you."

Please insert this condensed risk profile as the Table of Possible Side Effects for GDC-0032 in your ICD.

### COMMON, SOME MAY BE SERIOUS

In 100 people receiving GDC-0032, more than 20 and up to 100 may have:

- Diarrhea, nausea
- Tiredness
- Loss of appetite

### OCCASIONAL, SOME MAY BE SERIOUS

In 100 people receiving GDC-0032, from 4 to 20 may have:

- Pain
- Dry mouth, skin
- Heartburn, vomiting
- Sores in mouth which may cause difficulty swallowing
- Changes in taste
- Itching, rash

### RARE, AND SERIOUS

In 100 people receiving GDC-0032, 3 or fewer may have:

• Swelling of the lungs which may cause shortness of breath

# SPECIFIC AMENDMENT INSTRUCTIONS FOR NEW/MODIFIED RISK INFORMATION – Sub-Study S1400C (PD-0332991; NSC 772256)

#### **Background**

As part of Good Clinical Practice, CTEP reviews each CAEPR list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with palbociclib.

#### Detailed Description of Required Protocol Changes for the Amendment/ Sample Change Memo Template

4) <u>New Protocol Amendment/Version Date Included on the Title/Cover Page per Operations Office Policy:</u>

Protocol Cover Page: Page Number(s): \_\_\_\_\_ Version Date: \_\_\_\_\_

5) <u>Revision of the Protocol CAEPR:</u>

Protocol Section(s) for Insertion of Revised CAEPR (Version 2.2, April 1, 2016): \_\_\_\_\_ Page Number(s): \_\_\_\_\_

- Added New Risk:
  - <u>Reported but With Insufficient Evidence for Attribution:</u> Ascites; Bone marrow hypocellular; Cataract; Eye disorders - Other (retinal hemorrhage); Gastrointestinal disorders - Other (large intestine perforation); Hepatic failure; Hypoxia; Intra-abdominal hemorrhage; Intracranial hemorrhage; Investigations - Other (pancytopenia); Localized edema; Musculoskeletal and connective tissue disorder - Other (osteomyelitis); Pericarditis; Pneumonitis; Pulmonary edema; Pulmonary hypertension; Small intestinal perforation; Syncope
- Increase in Risk Attribution:
  - <u>Changed to Likely from Less Likely:</u> Infection
  - <u>Changed to Less Likely from Reported but With Insufficient Evidence for Attribution:</u> Dry skin; Headache
  - <u>Changed to Rare but Serious from Reported but With Insufficient Evidence for Attribution:</u> Thromboembolic event
- Decrease in Risk Attribution:
  - Changed to Less Likely from Likely: Lymphocyte count decreased
  - <u>Changed to Reported but With Insufficient Evidence for Attribution from Less Likely:</u> Arthralgia; Blurred vision; Dyspnea; Edema limbs; Flatulence; Hyperglycemia; Nervous system disorders - Other (peripheral neuropathy)
- <u>Provided Further Clarification:</u>
  - Footnote #3, "Headache has been observed in trials using Palbociclib (PD-0332991) in combination with fuvestrant," has been added.
  - Footnote number #4 has been altered to read, "Rash includes rash, rash maculo-papular, erythema, erythematous rash, erysipelas, rash pruritic, rash papular, generalized rash, exanthema, allergic dermatitis, dermatitis acneiform, dermatitis, and palmar-plantar erythrodysesthesia syndrome."

- Modified Specific Protocol Exceptions to Expedited Reporting (SPEER) reporting requirements:
  - <u>Added:</u> Alopecia; Mucositis oral
- Deleted Risk:
  - <u>Reported but With Insufficient Evidence for Attribution:</u> Respiratory, thoracic and mediastinal disorders Other (alveolitis allergic)

<u>PLEASE NOTE</u>: The specific detailed changes listed here compare the new revised CAEPR Version 2.2, and associated risk information for the Informed Consent Document (ICD), to the most recent CAEPR Version 2.1. If your trial contains an older CAEPR version (i.e., does <u>NOT</u> currently contain CAEPR Version 2.1), you <u>MUST</u> include a description of any additional changes resulting from migration from the older CAEPR version.

### 6) <u>Revision of the ICD as Specified Below:</u>

The terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed form. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the ICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo.

- Increase in Risk Attribution:
  - <u>Changed to Occasional from Reported but With Insufficient Evidence for Attribution:</u> Headache; Dry skin
  - <u>Changed to Rare and Serious from Reported but With Insufficient Evidence for Attribution</u>: Blood clot which may cause swelling, pain, shortness of breath
- Decrease in Risk Attribution:
  - <u>Changed to Reported but With Insufficient Evidence for Attribution from Occasional (i.e., removed from the Risk Profile)</u>: Pain in joints; Blurred vision; Swelling of arms, legs; Passing gas; Numbness, tingling or pain of the arms and legs; Muscle weakness
- <u>Provided Further Clarification:</u>
  - Shortness of breath (previously under Occasional) is now listed as a symptom of Blood clot which may cause swelling, pain, shortness of breath (under Rare and Serious).

<u>PLEASE NOTE</u>: The potential risks listed in the CAEPR whose relationship to palbociclib is still undetermined are not required by CTEP to be described in the ICD; however, they may be communicated to patients according to local IRB requirements.

### Attachment 1-S1400 Sub-Study 1400C: Revised Palbociclib CAEPR – Version 2.2, April 1, 2016

#### **Comprehensive Adverse Events and Potential Risks list (CAEPR)**

for

Palbociclib (PD-0332991, NSC 772256)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' <a href="http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf">http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf</a> for further clarification. *Frequency is provided based on 759 patients*. Below is the CAEPR for Palbociclib (PD-0332991).

**NOTE**: Report AEs on the SPEER <u>ONLY IF</u> they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

			Version 2.2, April 1, 2016 <sup>1</sup>
Adverse Events with Possible Relationship to Palbociclib (PD-0332991) (CTCAE 4.0 Term) [n= 759]			Specific Protocol Exceptions to Expedited
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
BLOOD AND LYMPHATI	C SYSTEM DISORDERS		
Anemia			Anemia (Gr 2)
		Febrile neutropenia	
EYE DISORDERS			
	Dry eye		
	Watering eyes		
GASTROINTESTINAL DIS	SORDERS		
	Constipation		Constipation (Gr 2)
	Diarrhea		Diarrhea (Gr 2)
	Mucositis oral		Mucositis oral (Gr 2)
Nausea			Nausea (Gr 2)
	Vomiting		Vomiting (Gr 2)
GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS			
Fatigue			Fatigue (Gr 2)
	Fever		
INFECTIONS AND INFESTA	TIONS		
Infection <sup>2</sup>			Infection <sup>2</sup> (Gr 2)
INVESTIGATIONS			
	Lymphocyte count decreased		Lymphocyte count decreased (Gr 2)
Neutrophil count decreased			Neutrophil count decreased (Gr 2)
Platelet count decreased			Platelet count decreased (Gr 2)
White blood cell decreased			White blood cell decreased (Gr 2)
METABOLISM AND NUT	RITION DISORDERS		
	Anorexia		Anorexia (Gr 2)
NERVOUS SYSTEM DISO	ORDERS		
	Dysgeusia		
	Headache <sup>3</sup>		
<b>RESPIRATORY, THORAC</b>	CIC AND MEDIASTINAL DISO	RDERS	

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Adverse Events with Possible Relationship to Palbociclib (PD-0332991) (CTCAE 4.0 Term) [n= 759]			Specific Protocol Exceptions to Expedited
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
	Epistaxis		
SKIN AND SUBCUTANEOU	SKIN AND SUBCUTANEOUS TISSUE DISORDERS		
	Alopecia		Alopecia (Gr 2)
	Dry skin		
	Skin and subcutaneous tissue		
	disorders - Other (rash) <sup>4</sup>		
VASCULAR DISORDERS			
		Thromboembolic event	

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV</u>. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.

<sup>2</sup>Infection includes all 75 infection sites under the INFECTIONS AND INFESTATIONS SOC.

<sup>3</sup>Headache has been observed in trials using Palbociclib (PD-0332991) in combination with fuvestrant.

<sup>4</sup>Rash includes rash, rash maculo-papular, erythema, erythematous rash, erysipelas, rash pruritic, rash papular, generalized rash, exanthema, allergic dermatitis, dermatitis acneiform, dermatitis, and palmar-plantar erythrodysesthesia syndrome.

<sup>5</sup>Peripheral neuropathy includes both peripheral motor neuropathy and peripheral sensory neuropathy under the NERVOUS SYSTEM DISORDERS SOC.

Adverse events reported on Palbociclib (PD-0332991) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that Palbociclib (PD-0332991) caused the adverse event:

BLOOD AND LYMPHATIC SYSTEM DISORDERS - Bone marrow hypocellular

**CARDIAC DISORDERS** - Atrial fibrillation; Cardiac arrest; Palpitations; Pericarditis; Sinus bradycardia; Supraventricular tachycardia

EYE DISORDERS - Blurred vision; Cataract; Eye disorders - Other (retinal hemorrhage)

**GASTROINTESTINAL DISORDERS** - Abdominal distension; Abdominal pain; Ascites; Colitis; Dry mouth; Dyspepsia; Dysphagia; Esophageal stenosis; Flatulence; Gastric hemorrhage; Gastrointestinal disorders - Other (gastrointestinal

hemorrhage); Gastrointestinal disorders - Other (large intestine perforation); Gastrointestinal disorders - Other (oropharyngeal pain); Intra-abdominal hemorrhage; Lower gastrointestinal hemorrhage; Small intestinal obstruction; Small intestinal perforation

**GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS** - Chills; Edema limbs; Localized edema; Malaise; Non-cardiac chest pain; Pain

**HEPATOBILIARY DISORDERS** - Hepatic failure; Hepatobiliary disorders - Other (bile duct obstruction); Hepatobiliary disorders - Other (jaundice)

**IMMUNE SYSTEM DISORDERS** - Allergic reaction

INJURY, POISONING AND PROCEDURAL COMPLICATIONS - Fall; Fracture

**INVESTIGATIONS** - Alanine aminotransferase increased; Alkaline phosphatase increased; Aspartate aminotransferase increased; Blood bilirubin increased; CPK increased; Creatinine increased; GGT increased; INR increased; Investigations - Other (pancytopenia); Weight loss

**METABOLISM AND NUTRITION DISORDERS** - Dehydration; Hyperglycemia; Hyperkalemia; Hypermagnesemia; Hyperuricemia; Hypoalbuminemia; Hypocalcemia; Hypokalemia; Hyponatremia; Hypophosphatemia; Metabolism and nutrition disorders - Other (failure to thrive)

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MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS - Arthralgia; Back pain; Flank pain; Generalized muscle weakness; Musculoskeletal and connective tissue disorder - Other (muscle spasms); Musculoskeletal and connective tissue disorder - Other (osteomyelitis); Musculoskeletal and connective tissue disorder - Other (osteonecrosis); Myalgia; Neck pain; Pain in extremity
 NEOPLASMS BENIGN, MALIGNANT AND UNSPECIFIED (INCL CYSTS AND POLYPS) - Treatment related secondary malignancy
 NERVOUS SYSTEM DISORDERS - Dizziness; Dysesthesia; Dysphasia; Intracranial hemorrhage; Nervous system disorders - Other (peripheral neuropathy)<sup>5</sup>; Syncope
 PSYCHIATRIC DISORDERS - Insomnia
 RENAL AND URINARY DISORDERS - Acute kidney injury; Hematuria
 RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS - Cough; Dyspnea; Hypoxia; Pleural effusion; Pneumonitis; Postnasal drip; Pulmonary edema; Pulmonary hypertension
 SKIN AND SUBCUTANEOUS TISSUE DISORDERS - Hyperhidrosis; Pruritus
 VASCULAR DISORDERS - Hypertension; Hypotension

**Note**: Palbociclib (PD-0332991) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

### Attachment 2 - S1400 Sub-Study 1400C: Revised ICD Section(s) for Palbociclib

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in a "patient-friendly" condensed form. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in theICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. <u>Please insert this condensed risk profile as the Table of Possible Side Effects for palbociclib in your ICD.</u>

### Risk Profile for Palbociclib (CAEPR Version 2.2, April 1, 2016)

**NOTE:** The risk list section in the new NCI Consent Form Template (latest version: May 2013) will include the wording below:

"If you choose to take part in this study, there is a risk that:

- You may lose time at work or home and spend more time in the hospital or doctor's office than usual
- You may be asked sensitive or private questions which you normally do not discuss

The palbociclib used in this study may affect how different parts of your body work such as your liver, kidneys, heart, and blood. The study doctor will be testing your blood and will let you know if changes occur that may affect your health.

There is also a risk that you could have side effects from the study drug(s)/study approach.

Here are important points about side effects:

- The study doctors do not know who will or will not have side effects.
- Some side effects may go away soon, some may last a long time, or some may never go away.
- Some side effects may interfere with your ability to have children.
- Some side effects may be serious and may even result in death.

Here are important points about how you and the study doctor can make side effects less of a problem:

- Tell the study doctor if you notice or feel anything different so they can see if you are having a side effect.
- The study doctor may be able to treat some side effects.
- The study doctor may adjust the study drugs to try to reduce side effects.

The tables below show the most common and the most serious side effects that researchers know about. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you."

Please insert this condensed risk profile as the Table of Possible Side Effects for palbociclib in your ICD.

### COMMON, SOME MAY BE SERIOUS

In 100 people receiving palbociclib, more than 20 and up to 100 may have:

- Anemia which may require blood transfusion
- Nausea
- Tiredness
- Infection, especially when white blood cell count is low
- Bruising, bleeding

### OCCASIONAL, SOME MAY BE SERIOUS

In 100 people receiving palbociclib, from 4 to 20 may have:

- Dry eye, skin
- Watering eyes
- Constipation, diarrhea, vomiting
- Sores the in mouth which may cause difficulty swallowing
- Fever
- Loss of appetite
- Changes in taste
- Headache
- Nose bleed
- Hair loss, rash

#### **RARE, AND SERIOUS**

In 100 people receiving palbociclib, 3 or fewer may have:

• Blood clot which may cause swelling, pain, shortness of breath

# SPECIFIC AMENDMENT INSTRUCTIONS FOR NEW/MODIFIED RISK INFORMATION – Sub-Study S1400D (AZD4547; NSC 765338)

#### Background

As part of Good Clinical Practice, CTEP reviews each CAEPR list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with AZD4547.

#### Detailed Description of Required Protocol Changes for the Amendment/ Sample Change Memo Template

1) <u>New Protocol Amendment/Version Date Included on the Title/Cover Page per Operations Office Policy:</u>

Protocol Cover Page: Page Number(s): \_\_\_\_\_ Version Date: \_\_\_\_\_

2) <u>Revision of the Protocol CAEPR:</u>

Protocol Section(s) for Insertion of Revised CAEPR (Version 2.0, March 25, 2015): \_\_\_\_ Page Number(s): \_\_\_\_\_

- Added New Risk(s):
  - <u>Likely:</u> Eye disorders Other (retinal pigment epithelium detachment)<sup>2</sup> with corresponding footnote 2 stating that "Retinal Pigment Epithelium Detachment (RPED) is characterized as RPED, detachment of macular retinal pigment epithelium, subretinal fluid, serous retinal detachment."
  - Less Likely: retinopathy; abdominal pain; alopecia; palmar-plantar erythrodysesthesia syndrome
  - <u>Rare but Serious:</u> Electrocardiogram QT corrected interval prolonged
  - <u>Reported but With Insufficient Evidence for Attribution:</u> Pericardial effusion; Sinus bradycardia; Sinus tachycardia; Supraventricular tachycardia; Dyspepsia; Dysphasia; Hemorrhoids; Oral pain; edema limbs; Hepatobiliary disorders Other (bile duct obstruction); Hepatobiliary disorders Other (hepatomegaly); Hepatobiliary disorders Other (jaundice); Paronychia; Upper respiratory infection; Urinary tract infection; Hyperkalemia; Hypocalcemia; Hypokalemia; Hypophosphatemia; Back pain; Musculoskeletal and connective tissue disorder Other (groin pain); Pain in extremity; Lethargy; Peripheral sensory neuropathy; Insomnia; Nasal congestion; Pleuritic pain; Respiratory, thoracic and mediastinal disorders Other (breath sounds abnormal); Rash maculo-papular; Hypotension
- <u>Increase in Risk Attribution:</u>
  - <u>Changed to Likely from Less Likely:</u> diarrhea; dry mouth; mucositis oral; alanine aminotransferase increased; aspartate aminotransferase increased; metabolishm and butrition distorders Other hyperphosphatemia
  - <u>Changed to Likely from Reported but With Insufficient Evidence for Attribution:</u> constipation; vomiting; fatigue; anorexia
  - <u>Changed to Less Likely from Reported but With Insufficient Evidence for Attribution:</u> anemia; nausea; alkaline phosphatase increased; blood bilirubin increased; ejection fraction decreased; neutrophil count decreased;

- <u>Reported but With Insufficient Evidence for Attribution:</u>
  - EYE DISORDERS Retinal detachment
- Deleted Risk(s):
  - Eye disorders Other (chorioretinopathy) (which was been replaced by retinopathy under Less Likely)
  - Retinal detachment (which was been moved to "Reported but With Insufficient Evidence for Attribution" as noted above)
- Modified Specific Protocol Exceptions to Expedited Reporting (SPEER) reporting requirement(s):
  - Added: Anemia; Eye disorders Other (retinal pigment epithelium detachment); Abdominal pain; Constipation; Dry Mouth; Mucositis oral; Vomiting; Fatigue; Aspartate aminotransferase increased; Creatinine increased; Anorexia; Metabolism and nutrition – Other (hyperphosphatemia); Dysgeusia; Alopecia; Dry skin; Skin and subcutaneous tissue disorders – Other (nail disorders)

<u>PLEASE NOTE</u>: The specific detailed changes listed here compare the new revised CAEPR Version 2.2, and associated risk information for the Informed Consent Document (ICD), to the most recent CAEPR Version 2.0. If your trial contains an older CAEPR version (i.e., does <u>NOT</u> currently contain CAEPR Version 2.1), you <u>MUST</u> include a description of any additional changes resulting from migration from the older CAEPR version.

### 3) <u>Revision of the ICD as Specified Below:</u>

- Increase in Risk Attribution:
  - <u>Changed to Common from Occasional:</u> Dry mouth; Diarrhea; Sores in the mouth which may cause difficulty swallowing
  - <u>Changed to Common from Reported but With Insufficient Evidence for Attribution:</u> Constipation; Vomiting; Tiredness; Loss of Appetite
  - Added to Occasional as New Risk: Belly pain
  - <u>Changed to Occasional from Reported but With Insufficient Evidence for Attribution:</u> Nausea; Change in heart function; Hair loss; Redness, pain or peeling of palms and soles
  - <u>Changed to Rare and Serious as New Risk:</u> Change in the heart rhythm
- **Provided Further Clarification:** 
  - Since the risk of retinal pigment epithelium detachment (RPED) results in symptoms of visual changes (and the risk of retinal detachment has been moved to "Reported but With Insufficient Evidence for Attribution"), Visual loss has been changed to Visual changes under Common
  - Swelling on the inside of the eye deleted under Occasional as it is covered by Swelling and redness of the eye under Occasional

<u>PLEASE NOTE</u>: The potential risks listed in the CAEPR whose relationship to AZD4547 is still undetermined are not required by CTEP to be described in the ICD; however, they may be communicated to patients according to local IRB requirements.

### Attachment 1 - S1400 Sub-Study 1400D: Revised AZD4547 CAEPR – Version 2.2, May 24, 2016

# Comprehensive Adverse Events and Potential Risks list (CAEPR) for

AZD4547 (NSC 765338)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' <a href="http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf">http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf</a> for further clarification. *Frequency is provided based on 168 patients*. Below is the CAEPR for AZD4547.

**NOTE**: Report AEs on the SPEER <u>**ONLY IF**</u> they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

			Version 2.2, May 24, 2016 <sup>1</sup>
Adverse Events with Possible Relationship to AZD4547 (CTCAE 4.0 Term) [n= 168]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
BLOOD AND LYMPHATIC SYS	STEM DISORDERS		
	Anemia		Anemia (Gr 2)
EYE DISORDERS			
	Dry eye		
	Keratitis		
Eye disorders - Other (retinal pigment epithelium detachment) <sup>2</sup>			Eye disorders - Other (retinal pigment epithelium detachment) <sup>2</sup>
	Retinopathy		
GASTROINTESTINAL DISORD	ERS		
	Abdominal pain		Abdominal pain (Gr 2)
Constipation			Constipation (Gr 2)
Diarrhea			Diarrhea (Gr 2)
Dry mouth			Dry mouth (Gr 2)
Mucositis oral			Mucositis oral (Gr 2)
	Nausea		
Vomiting			Vomiting (Gr 2)
GENERAL DISORDERS AND A	DMINISTRATION SITE CON	IDITIONS	
Fatigue			Fatigue (Gr 2)
INVESTIGATIONS			
Alanine aminotransferase increased			Alanine aminotransferase increased (Gr 2)
	Alkaline phosphatase increased		
Aspartate aminotransferase increased			Aspartate aminotransferase increased (Gr 2)
	Blood bilirubin increased		
	Creatinine increased		Creatinine increased (Gr 2)
	Ejection fraction decreased		
		Electrocardiogram QT	
		corrected interval prolonged	

Adverse Events with Possible Relationship to AZD4547 (CTCAE 4.0 Term) [n= 168]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
	Neutrophil count decreased		
METABOLISM AND NUTRITIC	N DISORDERS		
Anorexia			Anorexia (Gr 2)
Metabolism and nutrition disorders -			Metabolism and nutrition disorders -
Other (hyperphosphatemia)			Other (hyperphosphatemia) (Gr 2)
NERVOUS SYSTEM DISORDERS			
	Dysgeusia		Dysgeusia (Gr 2)
SKIN AND SUBCUTANEOUS TISSUE DISORDERS			
	Alopecia		Alopecia (Gr 2)
	Dry skin		Dry skin (Gr 2)
	Palmar-plantar		
	erythrodysesthesia syndrome		
	Skin and subcutaneous tissue		Skin and subcutaneous tissue
	disorders - Other (nail disorders) <sup>3</sup>		disorders - Other (nail disorders) <sup>3</sup> (Gr 2)

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV.</u> Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.

<sup>2</sup>Retinal Pigment Epithelium Detachment (RPED) is characterized as RPED, detachment of macular retinal pigment epithelium, subretinal fluid, serous retinal detachment.

<sup>3</sup>Nail disorders include nail discoloration, and/or dystrophy.

# Adverse events reported on AZD4547 trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that AZD4547 caused the adverse event:

**CARDIAC DISORDERS** - Pericardial effusion; Sinus bradycardia; Sinus tachycardia; Supraventricular tachycardia **EYE DISORDERS** - Retinal detachment

GASTROINTESTINAL DISORDERS - Dyspepsia; Dysphagia; Hemorrhoids; Oral pain

**GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS** - Edema limbs; Fever; Malaise **HEPATOBILIARY DISORDERS** - Hepatobiliary disorders - Other (bile duct obstruction); Hepatobiliary disorders - Other (hepatomegaly); Hepatobiliary disorders - Other (jaundice)

**INFECTIONS AND INFESTATIONS** - Paronychia; Sepsis; Upper respiratory infection; Urinary tract infection **INVESTIGATIONS** - Cardiac troponin T increased; GGT increased; Investigations - Other (increase in LVEF) **METABOLISM AND NUTRITION DISORDERS** - Dehydration; Hyperkalemia; Hypocalcemia; Hypokalemia; Hyponatremia; Hypophosphatemia

**MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS** - Back pain; Musculoskeletal and connective tissue disorder - Other (groin pain); Pain in extremity

NERVOUS SYSTEM DISORDERS - Lethargy; Peripheral sensory neuropathy

**PSYCHIATRIC DISORDERS** - Insomnia

RENAL AND URINARY DISORDERS - Acute kidney injury

**RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS** - Dyspnea; Epistaxis; Nasal congestion; Pleural effusion; Pleuritic pain; Respiratory failure; Respiratory, thoracic and mediastinal disorders - Other (breath sounds abnormal)

SKIN AND SUBCUTANEOUS TISSUE DISORDERS - Rash maculo-papular VASCULAR DISORDERS - Hypotension

Note: AZD4547 in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent. Attachment 2 - S1400 Sub-Study 1400D: Revised ICD Section(s) for AZD4547

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in a "patient-friendly" condensed form. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the ICD. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. <u>Please insert this condensed risk profile as the Table of Possible Side Effects for AZD4547 in your ICD.</u>

### Risk Profile for AZD4547 (CAEPR Version 2.2, May 24, 2016)

**NOTE:** The risk list section in the new NCI Consent Form Template (latest version: May 2013) will include the wording below:

"If you choose to take part in this study, there is a risk that:

- You may lose time at work or home and spend more time in the hospital or doctor's office than usual
- You may be asked sensitive or private questions which you normally do not discuss

The AZD4547 used in this study may affect how different parts of your body work such as your liver, kidneys, heart, and blood. The study doctor will be testing your blood and will let you know if changes occur that may affect your health.

There is also a risk that you could have side effects from the study drug(s)/study approach.

Here are important points about side effects:

- The study doctors do not know who will or will not have side effects.
- Some side effects may go away soon, some may last a long time, or some may never go away.
- Some side effects may interfere with your ability to have children.
- Some side effects may be serious and may even result in death.

Here are important points about how you and the study doctor can make side effects less of a problem:

- Tell the study doctor if you notice or feel anything different so they can see if you are having a side effect.
- The study doctor may be able to treat some side effects.
- The study doctor may adjust the study drugs to try to reduce side effects.

The tables below show the most common and the most serious side effects that researchers know about. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you."

Please insert this condensed risk profile as the Table of Possible Side Effects for AZD4547 in your ICD.

### COMMON, SOME MAY BE SERIOUS

In 100 people receiving AZD4547, more than 20 and up to 100 may have:

- Visual changes
- Constipation, diarrhea, vomiting
- Dry mouth
- Sores in the mouth which may cause difficulty swallowing
- Tiredness
- Loss of appetite

### OCCASIONAL, SOME MAY BE SERIOUS

In 100 people receiving AZD4547, from 4 to 20 may have:

- Anemia which may require blood transfusion
- Dry eye, skin
- Swelling and redness of the eye
- Belly pain
- Nausea
- Change in heart function
- Changes in taste
- Hair loss
- Redness, pain or peeling of palms and soles
- Change in or loss of some or all of the finger or toenails

### RARE, AND SERIOUS

In 100 people receiving AZD4547, 3 or fewer may have:

• Change in the heart rhythm

# <u>Attachment 3:</u> Action Letter GENERAL INSTRUCTIONS for distribution of the S1400 Action Letter with the CTEP-approved Amendment

- 1. Distribute this Action Letter (and the accompanying CTEP-approved amendment) to all participating investigators and IRBs within 2 working days. Since S1400 is a National Clinical Trials Network (NCTN) study, please follow instructions from the SWOG Operations office. For sites participating using the NCI Central-IRB (CIRB) as the IRB of record for the S1400 study, CTEP has provided a copy of this Action Letter to the NCI CIRB. The SWOG clinical trial Operations Office may use its own Change Memo to detail the changes made in the CTEP-approved office when it distributes the amendment to sites participating in the S1400 study.
- 2. For Institutions/Sites Participating in S1400 <u>Using NCI CIRB as the IRB of Record</u> for S1400:
  - This CTEP-approved amendment has also been approved by the NCI CIRB. Sites using the NCI CIRB should implement the amendment per the usual procedures for a CTEP Action Letter amendment.
- 3. For Institutions/Sites Participating in S1400 Using a Local IRB as the IRB of Record for S1400:
  - The site's local IRB which reviews the CTEP-approved amendment will decide whether it can review the amendment through the expedited review procedure authorized by 45 CFR 46.110 and 21 CFR 56.110 since the CTEP approved amendment includes the new/modified risk information for the agents listed on the first page of the Action Letter <u>as well as</u> other general and administrative information.
  - Patients are considered to be "on study" for S1400 with respect to the changes required by the CTEP-approved amendment if they are/were registered to S1400 as of the date SWOG distributes the amendment & Action Letter to S1400 participating sites. If patients are already enrolled on (or are eventually assigned/registered to) one of the biomarker driven sub-studies affected by this Action Letter (i.e., S1400A, S1400B, S1400C, or S1400D) prior to local implementation of the consent forms, the patients should be informed of the new and/or modified risk information for the sub-study. This information should be communicated to these patients already enrolled "on study" without waiting for IRB review/approval since this information represents a significant new finding(s) that developed during the course of the research that may relate to a patient's willingness to continue participation and, per the Office for Human Research Protections, the regulations do not require IRB review and approval of statements describing such significant new findings before they are provided to patients already "on study." Documentation of their informed consent should be carried out according to local IRB requirements.
  - Patients who are <u>not</u> registered to S1400 as of the date SWOG distributes the CTEP-approved amendment & Action Letter to S1400 participating sites are <u>not</u> considered to be "on study" with respect to the changes required by the amendment. Depending on the extent of the new/modified risk information included in the amendment for a particular sub-study, patients may not be able to be registered to the sub-study until the site's local IRB of record has approved the amendment and substudy consent form and both have been implemented, as outlined below:
    - **S1400A Suspension of new patient accrual is <u>not applicable</u> to this sub-study** since it is already permanently closed to new accrual.

## **Action Letter for Study S1400**

- S1400B Suspension of new patient accrual is not applicable to this sub-study with GDC-0032 since the added risks are similar to the risks that were already included in the sub-study protocol and would have already been communicated to patients in the informed consent document: (1) an increase in the frequency of abdominal pain, colitis, pruritus, and alanine aminotransferase resulted in these risks, which were already in the sub-study CAEPR/ICD, being moved from rare to less likely; (2) decreased neutrophil count is very similar to neutropenia which was previously included in the sub-study CAEPR/ICD; (3) increased aspartate aminotransferase is similar to increases in other liver function tests like increased alanine aminotransferase which was already in the sub-study CAEPR/ICD; (4) anorexia is similar to decreased appetite and its consequences which was already in the sub-study CAEPR/ICD; and (5) dry mouth, mucositis oral, and dysgeusia can be associated with other adverse events affecting the oral area such as oral pain, stomatitis, and mucosal inflammation which were previously identified side effects in the CAEPR/ICD.
- S1400C Suspension of new patient accrual is <u>required</u> to this sub-study until the revised Model Consent Form, in association with this CTEP-approved amendment, is approved by the local IRB of record and is implemented.
- S1400D Suspension of new patient accrual is <u>required</u> to this sub-study until the revised Model Consent Form, in association with this CTEP-approved amendment, is approved by the local IRB of record and is implemented.
- 4. Save a copy of the Action Letter (and any CTEP approval letter for the accompanying amendment) for your records.



#### August 1, 2016

GROUP CHAIR'S OFFICE			
Charles D. Blanke, MD	TO:	ALL NATIONAL CLINICA	L TRIALS NETWORK (NCTN) MEMBERS
CHAIR	FROM:	SWOG Operations Office	
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239	RE:	IND Safety Reports for Ipi	limumab (BMS-734016)
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review	v required v allowed
OPERATIONS OFFICE		() No review require	ed
4201 Medical Dr Suite 250 San Antonio, TX 78229		Status Change () IRB Review only () Activation () Closure	
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210-614-0006 FAX STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101 206-652-2267		<ul> <li>() Informed Consent c</li> <li>() Patient notification</li> <li>() Patient notification</li> </ul>	ation not required ation required I Consideration changes on changes
206-342-1616 FAX		<ul><li>( ) Editorial / Administra</li><li>( ) Other:</li></ul>	
1100 Fairview Ave North M3-C102			
PO Box 19024			MEMORANDUM
Seattle, WA 98109 206-667-4623 206-667-4408 FAX	occurred study's	in association with the dru	have been posted regarding adverse events that ig ipilimumab. Please access this safety reports via the safety report link on the SWOG website tyreports.asp).
		afety reports pertain to ving study:	Reports:
swog.org	<u>S140</u>	<u>001</u> Lung	Jun. 28, 2016 Mfr Rpt #BMS2016049140

Jun. 28, 2016Mfr Rpt #BMS2016049140Jul. 05, 2016Mfr Rpt #BMS2016043389 FUJul. 11, 2016Mfr Rpt # BMS2016054075



This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza – Bristol Myers Squibb





August 1, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETW	VORK (NCTN) MEMBERS		
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office				
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ni	volumab (BMS-9	936558)		
Portland, OR 97239		MEMORANDUM				
503-494-5586 503-346-8038 FAX		<ul> <li>IRB Review Requirem</li> <li>( ) Full board review</li> <li>( √ ) Expedited review</li> <li>( ) No review required</li> </ul>	<pre>/ required / allowed</pre>			
OPERATIONS OFFICE		Status Change				
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210-614-8808		Protocol changes				
210-614-0006 FAX		<ul> <li>( ) Eligibility changes</li> <li>( ) Treatment / Dose Modification / Study Calendar changes</li> </ul>				
STATISTICAL CENTER		<ul> <li>() Informed Consent changes <ul> <li>Patient notification not required</li> <li>Patient notification required</li> </ul> </li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> </ul>				
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206-342-1616 FAX						
1100 Fairview Ave North				м		
M3-C102			<u>MEMORANDU</u>			
PO Box 19024				osted regarding adverse events that		
Seattle, WA 98109	the stu	ed in association with the drug nivolumab. Please access these safety reports via tudy's abstract page or the safety report link on the SWOG website				
206-667-4623	( <u>nttps://s</u>	wog.org/safetyreports/safe	tyreports.asp).			
206-667-4408 FAX		afety reports pertain to ving study:	Reports:			
swog.org	<u>S14(</u>	<u>001</u> Lung	Jun. 28, 2016 Jul. 05, 2016 Jul. 11, 2016	Mfr Rpt #BMS2016049140 Mfr Rpt #BMS2016043389 FU Mfr Rpt #BMS2016054075		



This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza – Bristol Myers Squibb





## July 15, 2016

GROUP CHAIR'S OFFICE Charles D. Blanke, MD	TO:	ALL NATIONAL CLINICA	L TRIALS NETW	/ORK (NCTN) MEMBERS
CHAIR	FROM:	SWOG Operations Office		
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239	RE:	IND Safety Reports for Ip		734016)
Fortiariu, OK 97239		MEMORANDUM		
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review	/ required	
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Seattle, WA 98109	The follo	wing new safety report ha	s been posted re	egarding adverse events that occurred
206-667-4623 206-667-4408 FAX	in assoc abstract	iation with the drug ipilimu	imab. Please act fety report	cess this safety report via the study's link on the SWOG website
swog.org	following	ety report pertain to the ı study: <b>DOI</b> Lung	Reports: Jun. 13, 2016	Mfr Rpt #BMS2016043759



This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza – Bristol Myers Squibb





July 15, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETWORK (NCTN) MEMBERS				
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office					
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that

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza – Bristol Myers Squibb





#### July 1, 2016

GROUP CHAIR'S OFFICE Charles D. Blanke, MD	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
CHAIR	FROM:	SWOG Operations Office
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
503-494-5586 503-346-8038 FAX		<pre>MEMORANDUM IRB Review Requirements ( ) Full board review required ( √) Expedited review allowed ( ) No review required</pre>
OPERATIONS OFFICE 4201 Medical Dr Suite 250 San Antonio, TX 78229 210-614-8808		Status Change ( ) IRB Review only ( ) Activation ( ) Closure ( ) Reactivation
210-614-0006 FAX STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101 206-652-2267 206-342-1616 FAX 1100 Fairview Ave North		<ul> <li>Protocol changes <ul> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes</li> <li>() Patient notification not required</li> <li>() Patient notification required</li> <li>() Scientific / Statistical Consideration changes</li> <li>() Specimen Submission changes</li> <li>() Data Submission / Forms changes</li> <li>() Editorial / Administrative changes</li> <li>() Other:</li> </ul></li></ul>
M3-C102 PO Box 19024 Seattle, WA 98109 206-667-4623 206-667-4408 FAX	occurrec the stu ( <u>https://s</u> These sa	MEMORANDUM         owing new safety reports have been posted regarding adverse events that         d in association with the drug ipilimumab. Please access these safety reports via         dy's abstract page or the safety report link on the SWOG website         swog.org/safetyreports/safetyreports.asp).         afety reports pertain to         wing study:

swog.org

<u>**S1400I**</u> Lung

May 10, 2016Mfr Rpt #BMS2016022351 FUMay 19, 2016Mfr Rpt #BMS2016014349Jun. 08, 2016Mfr Rpt #BMS2016003371



This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza – Bristol Myers Squibb May Venturanza – Merck





July 1, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETWORK (NCTN) MEMBERS			
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office				
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ni	volumab (BMS-936558)			
Portland, OR 97239		MEMORANDUM				
503-494-5586 503-346-8038 FAX		IRB Review Requirem () Full board review (√) Expedited review () No review require	ν required ν allowed			
OPERATIONS OFFICE		Status Change				
4201 Medical Dr		() IRB Review only				
Suite 250		() Activation				
San Antonio, TX 78229		() Closure () Reactivation				
210-614-8808						
210-614-0006 FAX			odification / Study Calendar changes			
STATISTICAL CENTER		() Informed Consent c	hanges ation not required			
1730 Minor Ave		() Patient notifica				
Suite 1900			I Consideration changes			
Seattle, WA 98101		()Specimen Submission changes ()Data Submission / Forms changes				
206-652-2267		() Editorial / Administra				
206-342-1616 FAX		() Other:				
1100 Fairview Ave North			MEMORANDUM			
M3-C102						
PO Box 19024			have been posted regarding adverse events that			
Seattle, WA 98109	the stu	dy's abstract page or	ug nivolumab. Please access these safety reports via the safety report link on the SWOG website			
206-667-4623	( <u>nttps://s</u>	wog.org/safetyreports/safe	tyrepons.asp).			
206-667-4408 FAX		afety reports pertain to wing study:	Reports:			
swog.org	<u> 514</u>	<u>001</u> Lung	May 10, 2016 Mfr Rpt #BMS2016022351 FU May 16, 2016 Mfr Rpt #2016IN002471 May 19, 2016 Mfr Rpt #BMS2016014349 May 25, 2016 Mfr Rpt #2016IN002778			



Jun. 08, 2016 Mfr Rpt #BMS2016003371 Jun. 10, 2016 Mfr Rpt #BMS2016042534

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza – Bristol Myers Squibb May Venturanza – Merck





#### June 15, 2016

GROUP CHAIR'S OFFICE Charles D. Blanke, MD	TO:	ALL NATIONAL CLINICA	L TRIALS NETWORK (NCTN) MEMBERS
CHAIR	FROM:	SWOG Operations Office	
3181 SW Sam Jackson Pk Rd MC: L586 Portland OP 97239	RE:	IND Safety Reports for Ipi	limumab (BMS-734016)
Portland, OR 97239		MEMORANDUM	
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review	v required v allowed
OPERATIONS OFFICE		() No review require	ed
4201 Medical Dr Suite 250		Status Change () IRB Review only () Activation	
San Antonio, TX 78229		() Closure	
210-614-8808		() Reactivation	
210-614-0006 FAX		<b>Protocol changes</b> () Eligibility changes	
STATISTICAL CENTER			odification / Study Calendar changes
1730 Minor Ave		<ul> <li>( ) Informed Consent c</li> <li>( ) Patient notification</li> </ul>	ation not required
Suite 1900		() Patient notifica	ation required
Seattle, WA 98101		() Specimen Submissi	
206-652-2267		() Data Submission / F	
206-342-1616 FAX		() Editorial / Administra () Other:	ative changes
1100 Fairview Ave North			
M3-C102			
PO Box 19024			<u>MEMORANDUM</u>
Seattle, WA 98109	The foll	owing new safety report	has been posted regarding an adverse event that
206-667-4623 206-667-4408 FAX	occurred study's	l in association with the dru	ug ipilimumab. Please access this safety report via the safety report link on the SWOG website
	This safe following	ety report pertains to the study:	Reports:
swog.org	<u>S14</u>	<u>001</u> Lung	May 24, 2016 Mfr Rpt #AE2478723



This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza (Bristol Myers Squibb) May Venturanza – Merck





June 15, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETWO	ORK (NCTN) MEMBERS		
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office				
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ni	volumab (BMS-93	6558)		
Portland, OR 97239		MEMORANDUM				
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review () No review require	<pre>required allowed</pre>			
OPERATIONS OFFICE		Statua Changa				
4201 Medical Dr		Status Change () IRB Review only				
Suite 250		() Activation				
San Antonio, TX 78229		() Closure () Reactivation				
210-614-8808						
210-614-0006 FAX		<ul> <li>Protocol changes</li> <li>( ) Eligibility changes</li> <li>( ) Treatment / Dose Modification / Study Calendar changes</li> <li>( ) Informed Consent changes</li> <li>( ) Patient notification not required</li> </ul>				
STATISTICAL CENTER						
1730 Minor Ave		() Patient notifica				
Suite 1900		() Scientific / Statistica		anges		
Seattle, WA 98101		<ul> <li>( ) Specimen Submission changes</li> <li>( ) Data Submission / Forms changes</li> </ul>				
206-652-2267		<ul> <li>( ) Editorial / Administrative changes</li> <li>( ) Other:</li> </ul>				
206-342-1616 FAX						
1100 Fairview Ave North M3-C102			MEMORANDUM	1		
PO Box 19024	The follo	owing new safety report	has been posted	d regarding an adverse event that		
Seattle, WA 98109		in association with the dru abstract page or the		ase access this safety report via the link on the SWOG website		
206-667-4623	( <u>https://s</u>	wog.org/safetyreports/safe	tyreports.asp).			
206-667-4408 FAX		ety report pertains to ving study:	Reports:			
swog.org	<u>S14(</u>	<u>001</u> Lung	Jun. 03, 2016	Mfr Rpt # AE-2069632		



that

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza (Bristol Myers Squibb) May Venturanza – Merck





#### June 1, 2016

GROUP CHAIR'S OFFICE		
Charles D. Blanke, MD	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
CHAIR	FROM:	SWOG Operations Office
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
Portland, OR 97239		MEMORANDUM
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirements</b> () Full board review required () Expedited review allowed
OPERATIONS OFFICE		() No review required
4201 Medical Dr Suite 250 San Antonio, TX 78229		Status Change ( ) IRB Review only ( ) Activation ( ) Closure ( ) Reactivation
210-614-8808		
210-614-0006 FAX		Protocol changes <ul> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> </ul>
STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>( ) Informed Consent changes</li> <li>( ) Informed Consent changes</li> <li>( ) Patient notification not required</li> <li>( ) Patient notification required</li> <li>( ) Scientific / Statistical Consideration changes</li> <li>( ) Specimen Submission changes</li> </ul>
206-652-2267 206-342-1616 FAX		<ul> <li>( ) Specimen Submission changes</li> <li>( ) Data Submission / Forms changes</li> <li>( ) Editorial / Administrative changes</li> <li>( ) Other:</li> </ul>
1100 Fairview Ave North		
M3-C102 PO Box 19024		MEMORANDUM
Seattle, WA 98109	The follo	owing new safety reports have been posted regarding adverse events that
206-667-4623 206-667-4408 FAX	occurred the stue	in association with the drug ipilimumab. Please access these safety reports via dy's abstract page or the safety report link on the SWOG website wog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

swog.org

<u>S1400I</u> Lung <u>S1404</u> Melanoma Reports:

Apr. 27, 2016 Mfr Rpt #BMS2016011751 FU



#### May 03, 2016 Mfr Rpt #BMS2016031561

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza (Bristol Myers Squibb) May Venturanza – Merck





June 1, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETWORK (NCTN) MEMBERS				
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office					
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ni	volumab (BMS-936558)				
Portland, OR 97239		MEMORANDUM					
503-494-5586 503-346-8038 FAX		IRB Review Requirem () Full board review (√) Expedited review () No review require	/ required / allowed				
OPERATIONS OFFICE		Status Change					
4201 Medical Dr Suite 250 San Antonio, TX 78229		<ul> <li>() IRB Review only</li> <li>() Activation</li> <li>() Closure</li> <li>() Reactivation</li> </ul>					
210-614-8808							
210-614-0006 FAX			odification / Study Calendar changes				
STATISTICAL CENTER		() Informed Consent c	hanges ation not required				
1730 Minor Ave		() Patient notifica	ation required				
Suite 1900		<ul> <li>Scientific / Statistical Consideration changes</li> <li>Specimen Submission changes</li> <li>Data Submission / Forms changes</li> </ul>					
Seattle, WA 98101							
206-652-2267 206-342-1616 FAX		<ul><li>Éditorial / Administra</li><li>Other:</li></ul>	ative changes				
1100 Fairview Ave North			MEMORANDUM				
M3-C102							
PO Box 19024 Seattle, WA 98109	occurred the stu	l in association with the dr dy's abstract page or	a have been posted regarding adverse events that ug nivolumab. Please access these safety reports via the safety report link on the SWOG website				
206-667-4623	( <u>https://s</u>	wog.org/safetyreports/safe	tyreports.asp).				
206-667-4408 FAX		afety reports pertain to wing study:	Reports:				
swog.org		<b>00I</b> Lung <b>04</b> Melanoma	Apr. 27, 2016 Mfr Rpt #BMS2016011751 FU May 02, 2016 Mfr Rpt #BMS2016031021 May 03, 2016 Mfr Rpt #BMS2016031561				



This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza (Bristol Myers Squibb) May Venturanza – Merck





#### May 15, 2016

GROUP CHAIR'S OFFICE		
Charles D. Blanke, MD	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
CHAIR	FROM:	SWOG Operations Office
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
503-494-5586 503-346-8038 FAX		IRB Review Requirements ( ) Full board review required ( √) Expedited review allowed ( ) No review required
OPERATIONS OFFICE 4201 Medical Dr Suite 250 San Antonio, TX 78229		Status Change ( ) IRB Review only ( ) Activation ( ) Closure
210-614-8808 210-614-0006 FAX		<ul> <li>( ) Reactivation</li> <li>Protocol changes</li> <li>( ) Eligibility changes</li> </ul>
STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101		<ul> <li>( ) Treatment / Dose Modification / Study Calendar changes</li> <li>( ) Informed Consent changes</li> <li>( ) Patient notification not required</li> <li>( ) Patient notification required</li> <li>( ) Scientific / Statistical Consideration changes</li> <li>( ) Specimen Submission changes</li> </ul>
206-652-2267 206-342-1616 FAX		<ul> <li>( ) Data Submission / Forms changes</li> <li>( ) Editorial / Administrative changes</li> <li>( ) Other:</li> </ul>
1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109	The foll	MEMORANDUM owing new safety reports have been posted regarding adverse events that
206-667-4623 206-667-4408 FAX	occurred the stu	I in association with the drug Ipilimumab. Please access these safety reports via dy's abstract page or the safety report link on the SWOG website wog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:

Reports:

<u>**S1400I**</u> Lung

swog.org

Apr. 13, 2016 AWARE #BMS2016022351



This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza (Bristol Myers Squibb)





May 15, 2016

	TO:	ALL NATIONAL CLINICA	L TRIALS NETW	ORK (NCTN) MEMBERS			
GROUP CHAIR'S OFFICE Charles D. Blanke, MD CHAIR	FROM:	SWOG Operations Office					
3181 SW Sam Jackson Pk Rd MC: L586	RE:	IND Safety Reports for Ni	volumab (BMS-9	36558)			
Portland, OR 97239		MEMORANDUM					
503-494-5586 503-346-8038 FAX		<b>IRB Review Requirem</b> () Full board review () Expedited review () No review require	<pre>required allowed</pre>				
OPERATIONS OFFICE		Status Change					
4201 Medical Dr		Status Change () IRB Review only					
Suite 250		() Activation					
San Antonio, TX 78229		() Closure () Reactivation					
210-614-8808		Protocol changes					
210-614-0006 FAX		<ul> <li>() Eligibility changes</li> <li>() Treatment / Dose Modification / Study Calendar changes</li> <li>() Informed Consent changes         <ul> <li>() Patient notification not required</li> </ul> </li> </ul>					
STATISTICAL CENTER							
1730 Minor Ave		() Patient notifica					
Suite 1900		() Scientific / Statistica		hanges			
Seattle, WA 98101		<ul> <li>( ) Specimen Submission changes</li> <li>( ) Data Submission / Forms changes</li> </ul>					
206-652-2267		<ul> <li>Éditorial / Administra</li> <li>Other:</li> </ul>	ative changes				
206-342-1616 FAX							
1100 Fairview Ave North M3-C102			MEMORANDU	<u>M</u>			
PO Box 19024	The follo	wing new safety reports	have been po	sted regarding adverse events that			
Seattle, WA 98109	The following new safety reports have been posted regarding adverse events that occurred in association with the drug Nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website						
206-667-4623	(https://s	wog.org/safetyreports/safe	tyreports.asp).				
206-667-4408 FAX		fety reports pertain to ving study:	Reports:				
swog.org	<u>S140</u>	<b>)01</b> Lung	Apr. 11, 2016 Apr. 13, 2016 Apr. 14, 2016	AWARE #BMS2016022351			



that

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Sadia Mirza (Bristol Myers Squibb)





### April 15, 2016

GROUP CHAIR'S OFFICE	то				
Charles D. Blanke, MD	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS			
CHAIR	FROM:	SWOG Operations Office			
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239	RE:	IND Safety Reports for Ipilimumab (BMS-734016)			
503-494-5586		MEMORANDUM			
503-346-8038 FAX		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> </ul>			
OPERATIONS OFFICE		() No review required			
4201 Medical Dr Suite 250 San Antonio, TX 78229		Status Change () IRB Review only () Activation () Closure			
210-614-8808		() Reactivation			
210-614-0006 FAX		Protocol changes ( ) Eligibility changes			
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1730 Minor Ave		() Patient notification not required			
Suite 1900 Seattle, WA 98101		<ul> <li>Patient notification required</li> <li>Scientific / Statistical Consideration changes</li> <li>Specimen Submission changes</li> </ul>			
206-652-2267		() Data Submission / Forms changes			
206-342-1616 FAX		<ul><li>( ) Editorial / Administrative changes</li><li>( ) Other:</li></ul>			
1100 Fairview Ave North		· · · · · · · · · · · · · · · · · · ·			
M3-C102		MEMORANDUM			
PO Box 19024 Seattle, WA 98109					
ocattio, WA JOTOJ		owing new safety reports have been posted regarding adverse events that I in association with the drug Ipilimumab. Please access these safety reports via			
206-667-4623	the stu	dy's abstract page or the safety report link on the SWOG website			
206-667-4408 FAX	( <u>https://s</u>	wog.org/safetyreports/safetyreports.asp).			
	Those of	afoty reports portain to			

These safety reports pertain to the following study:

Reports:

Mar. 16, 2016 AE-2433848 Mar. 18, 2016 Mfr Rpt #BMS2015060871



swog.org

<u>**S1400I**</u> Lung

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D.





### April 15, 2016

GROUP CHAIR'S OFFICE	TO				
Charles D. Blanke, MD	TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS				
CHAIR	FROM:	SWOG Operations Office			
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239	RE:	IND Safety Reports for Nivolumab (BMS-936558)			
503-494-5586		MEMORANDUM			
503-346-8038 FAX		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required</li> <li>( √ ) Expedited review allowed</li> </ul>			
OPERATIONS OFFICE		( ) No review required			
4201 Medical Dr Suite 250 San Antonio, TX 78229		Status Change ( ) IRB Review only ( ) Activation ( ) Closure			
210-614-8808		() Reactivation			
210-614-0006 FAX		Protocol changes ( ) Eligibility changes ( ) Tractice ( ) Changes			
STATISTICAL CENTER		<ul> <li>( ) Treatment / Dose Modification / Study Calendar changes</li> <li>( ) Informed Consent changes</li> </ul>			
1730 Minor Ave		() Patient notification not required			
Suite 1900 Seattle, WA 98101		<ul> <li>Patient notification required</li> <li>Scientific / Statistical Consideration changes</li> <li>Specimen Submission changes</li> </ul>			
206-652-2267		() Data Submission / Forms changes			
206-342-1616 FAX		<ul><li>( ) Editorial / Administrative changes</li><li>( ) Other:</li></ul>			
1100 Fairview Ave North					
M3-C102 PO Box 19024		MEMORANDUM			
Seattle, WA 98109					
206-667-4623 206-667-4408 FAX	occurrect the stu	owing new safety reports have been posted regarding adverse events that I in association with the drug Nivolumab. Please access these safety reports via dy's abstract page or the safety report link on the SWOG website			
200-007-4400 FAA	( <u>nttps://s</u>	wog.org/safetyreports/safetyreports.asp).			
	Those of	afety reports portain to			

These safety reports pertain to the following study:

<u>**S1400I**</u> Lung

Reports:

Mar. 18, 2016 Mfr Rpt #BMS2015060871 Mar. 30, 2016 AWARE #21409321



swog.org

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D.





April 1, 2016

RE:

TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) PARTICIPANTS	S
-----	--	---

S1400, "A Biomarker-Driven Master Protocol for Previously Treated Squamous

Cell Lung Cancer ". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C.

**GROUP CHAIR'S OFFICE** 

FROM: Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u>)

Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.

Study Chair: Vassiliki A. Papadimitrakopoulou, M.D.

Charles D. Blanke, MD CHAIR

3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239

503-494-5586 503-346-8038 FAX

#### OPERATIONS OFFICE

4201 Medical Dr Suite 250 San Antonio, TX 78229

210-614-8808 210-614-0006 FAX

#### STATISTICAL CENTER

1730 Minor Ave Suite 1900 Seattle, WA 98101

206-652-2267 206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

swog.org

- **IRB Review Requirements** () Full board review required. Reason: Initial activation (should your institution choose to participate) ( ) Increased risk to patient ( ) Complete study redesign ) ( Addition of tissue banking requirements ) Study closure due to new risk information ) Expedited review allowed )
- , \_\_\_p

 $(\sqrt{)}$  No review required

Phone number: 713/792-6363

E-mail: vpapadim@mdanderson.org

MEMORANDUM

#### **MEMORANDUM**

The purpose of this memorandum is to clarify patient notification and IRB requirements related to <u>**S1400**</u> Revision #4, which was distributed April 1, 2016.

Patient notification requirements for all sites:

Patients currently receiving nivolumab and/or ipilimumab on <u>S1400I</u>, and patients who signed an <u>S1400I</u> consent form prior to local implementation of the Revision #4 consent form changes, must be informed of the new risk information. This information should be communicated to patients without waiting for IRB review/approval since this represents a significant new finding(s) that developed during the course of the research that may affect a patient's willingness to continue participation and per the Office for Human Research Protections, regulations do not require IRB review before such information is provided to already-enrolled patients. Documentation of a patient's informed consent should be carried out according to local IRB requirements. At a minimum, the patient must be notified by the next visit and this notification process must be documented in the patient chart.



Additional requirements for sites not using the CIRB:

Accrual of new patients to <u>S14001</u> must be suspended until the IRB of record has approved Revision #4 and the revised Model Consent Form has been implemented. The Revision may undergo expedited review if the local IRB agrees that the changes are minor. Suspension of the screening/pre-screening portion of <u>S1400</u> is not required.

This memorandum serves to notify the NCI and SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE





April 1, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS		
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u> )		
Charles D. Blanke, MD CHAIR	RE:	<b><u>S1400</u></b> , "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer (LUNG-MAP)". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.		
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM		
Portland, OR 97239		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D.		
503-494-5586		Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>		
503-346-8038 FAX		IRB Review Requirements		
OPERATIONS OFFICE		() Full board review required. Reason:		
4201 Medical Dr		<ul> <li>( ) Initial activation (should your institution choose to participate)</li> <li>( ) Increased risk to patient</li> </ul>		
Suite 250 San Antonio, TX 78229		() Complete study redesign		
		<ul> <li>Addition of tissue banking requirements</li> <li>Study closure due to new risk information</li> </ul>		
210-614-8808 210-614-0006 FAX		() Expedited review allowed		
210-01-0000 144				
STATISTICAL CENTER		( $$ ) No review required		
1730 Minor Ave		MEMORANDUM		
Suite 1900 Seattle, WA 98101		urpose of this memorandum is to notify sites that a new Investigator's Brochure is now ole for the following investigational agent.		
206-652-2267 206-342-1616 FAX		Sub-Study: <b><u>S14001</u></b> Agent: Ipilimmab Version 19 Erratum 01 18Mar2016		
1100 Fairview Ave North M3-C102	based on	tandard procedures will be followed in updating the drug information sections the most recent Investigator's brochure versions. Sites should seek updated r's brochures as required by site's IRB of record.		
PO Box 19024	The Invest	igator's brochures are available through the CTSU website. Complete the CTSU		
Seattle, WA 98109	Request for Clinical Brochure form located under LPO Documents – Pharmacy Forms. Complete and return to <u>ctsucontact@westat.com</u> .			
206-667-4623				
206-667-4408 FAX	This memorandum serves to notify the NCI and the SWOG Statistical Center.			
swog.org	cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D.			





April 1, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) PARTICIPANTS			
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <a href="mailto:cmiwa@swog.org">cmiwa@swog.org</a> )			
Charles D. Blanke, MD CHAIR	RE:	<b><u>S1400</u></b> , "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer ". Study Chairs: V. Papadimitrakopoulou, F.R.			
3181 SW Sam Jackson Pk Rd MC: L586	Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.				
Portland, OR 97239		MEMORANDUM			
503-494-5586 503-346-8038 FAX		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>			
OPERATIONS OFFICE		IRB Review Requirements			
4201 Medical Dr Suite 250 San Antonio, TX 78229		<ul> <li>Full board review required. Reason:</li> <li>Initial activation (should your institution choose to participate)</li> <li>Increased risk to patient</li> <li>Complete study redesign</li> </ul>			
210-614-8808 210-614-0006 FAX		<ul> <li>Addition of tissue banking requirements</li> <li>Study closure due to new risk information</li> </ul>			
		() Expedited review allowed			
STATISTICAL CENTER 1730 Minor Ave Suite 1900 Seattle, WA 98101		( $$ ) No review required			
		MEMORANDUM			
206-652-2267 206-342-1616 FAX		se of this memorandum is to inform sites that the following forms for the above- ly have been updated.			
1100 Fairview Ave North M3-C102		cal Pathology Review Form (500091v1.3) ase discard old versions of this form and replace with the new version.			
PO Box 19024 Seattle, WA 98109	<u><b>S1400</b></u> S1400 On	study Form (#500014v1.4)			
206-667-4623 206-667-4408 FAX	<u>S1400B</u> S1400B Onstudy Form (#500029v1.5) S1400B Re-registration Eligibility Verification Form (500149v1.0)				
swog.org	<u>S1400C</u> S1400C Onstudy Form (#500031v1.6) S1400C Re-registration Eligibility Verification Form (500152v1.0)				



<u>S1400D</u> S1400D Onstudy Form (#500035v1.6) S1400D Re-registration Eligibility Verification Form (500155v1.0)

<u>S1400I</u> S1400I Onstudy Form (#500153v1.0)

This memorandum serves to notify the NCI and SWOG Statistical Center.

**PROTOCOL & INFORMATION OFFICE** CC:





	April 1, 2016			
	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS		
	FROM:	SWOG Operations Office		
GROUP CHAIR'S OFFICE	RE:	IND Safety Reports for Ipilimumab (BMS-734016)		
Charles D. Blanke, MD CHAIR		MEMORANDUM		
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239		<ul> <li>IRB Review Requirements</li> <li>( ) Full board review required. Reason: <ul> <li>( ) Initial activation (should your institution choose to participate)</li> <li>( ) Increased risk to patient</li> </ul> </li> </ul>		
503-494-5586 503-346-8038 FAX		<ul> <li>( ) Complete study redesign</li> <li>( ) Addition of tissue banking requirements</li> <li>( ) Study closure due to new risk information</li> </ul>		
OPERATIONS OFFICE 4201 Medical Dr		<ul> <li>( √) Expedited review allowed</li> <li>( ) No review required</li> </ul>		
Suite 250 San Antonio, TX 78229		MEMORANDUM		
210-614-8808		owing new safety reports have been posted regarding adverse events th		

210-614-0006 FAX

#### STATISTICAL CENTER

1730 Minor Ave Suite 1900 Seattle, WA 98101

206-652-2267 206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

swog.org

# The following new safety reports have been posted regarding adverse events that occurred in association with the drug Ipilimumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:	Reports:	
<u><b>S1400I</b></u> Lung	Feb. 26, 2016 Mar. 14, 2016 Mar. 14, 2016 Mar. 14, 2016	AE-2351578 Mfr Rpt #BMS2016000410 Mfr Rpt #BMS2016003978 Mfr Rpt #BMS2016005818 Mfr Rpt # BMS2016006635 Mfr Rpt #BMS2016010639 Mfr Rpt #BMS2016011704 Mfr Rpt #BMS2016003606

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

Mary Redman, Ph.D. James Moon, M.S.	Lyudmila Bazhenova, M.D. Jieling Miao, M.S. Louise Highleyman Kara Amber
--	---





4201 Medical Dr

210-614-8808

M3-C102

PO Box 19024

206-667-4623

Seattle, WA 98109

206-667-4408 FAX

210-614-0006 FAX

San Antonio, TX 78229

Suite 250

April 1, 2016

	TO: FROM:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS SWOG Operations Office			
	RE:	IND Safety Reports for Nivolumab (BMS-936558)			
GROUP CHAIR'S OFFICE Charles D. Blanke, MD		MEMORANDUM			
CHAIR		IRB Review Requirements			
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239		<ul> <li>() Full board review required. Reason:</li> <li>() Initial activation (should your institution choose to participate)</li> <li>() Increased risk to patient</li> <li>() Complete study redesign</li> </ul>			
503-494-5586		<ul> <li>Addition of tissue banking requirements</li> <li>Study closure due to new risk information</li> </ul>			
503-346-8038 FAX		( $$ ) Expedited review allowed			
OPERATIONS OFFICE		( ) No review required			

#### MEMORANDUM

The following new safety reports have been posted regarding adverse events that occurred in association with the drug Nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

STATISTICAL CENTER	These safety reports pertain to the following study:	Reports:	
1730 Minor Ave Suite 1900 Seattle, WA 98101	<u><b>S1400I</b></u> Lung	Jan. 29, 2016 Feb. 26, 2016	AE-2351578 Mfr Rpt #BMS2016000410 Mfr Rpt #BMS2016003978
206-652-2267 206-342-1616 FAX 1100 Fairview Ave North		Mar. 14, 2016 Mar. 14, 2016 Mar. 14, 2016	Mfr Rpt #BMS2016005818 Mfr Rpt # BMS2016006635 Mfr Rpt #BMS2016010639 Mfr Rpt #BMS2016011704 Mfr Rpt #BMS2016003606

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Lyudmila Bazhenova, M.D. Mary Redman, Ph.D. Jieling Miao, M.S. James Moon, M.S. Louise Highleyman Shannon McDonough, M.S. Kara Amber Scott Gettinger, M.D.



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	Distribution D E-mail Date: CTEP Submi		April 1, 2016 March 18, 2016 March 3, 2016	
GROUP CHAIR'S OFFICE	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) PARTICIPAN		
Charles D. Blanke, MD	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: cmiwa@swog.org)		
<b>CHAIR</b> 3181 SW Sam Jackson Pk Rd MC: L586	RE:	<b>\$1400</b> , "A Biomarker-Driven Master Protocol for Previously Treater Squamous Cell Lung Cancer ". Study Chairs: V. Papadimitrakopoulou F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.		
Portland, OR 97239		REVISION #4		
503-494-5586 503-346-8038 FAX		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: vpapadim@mdanderson.org		
OPERATIONS OFFICE		IRB Review Requirements		
4201 Medical Dr Suite 250 San Antonio, TX 78229 210-614-8808 210-614-0006 FAX		( )    ( )    ( ) ( ( ) A	bard review required. Reason: nitial sub-study activation ncreased risk to patient Complete sub-study redesign Addition of tissue banking requirements Study closure due to new risk information	
210-014-0000 FAX		(√) Expec	lited review allowed	
STATISTICAL CENTER 1730 Minor Ave		( ) No review required		
Suite 1900 Seattle, WA 98101		REVISION #4		

206-652-2267 206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

3.

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This revision has been prepared in response to the Request for Rapid Amendments (RRA) for ipilimumab and for BMS-936558 (nivolumab) received on February 18, 2016 from Dr. Howard Streicher (streicherh@ctep.nci.nih.gov), Dr. James Zwiebel (zwiebelj@ctep.nci.nih.gov), and Dr. Meg Mooney (mooneym@ctep.nci.nih.gov). The associated Action Letter is attached.

The above-referenced study has been updated as follows:

- 1. The Version Date of the protocol and <u>Model Consent Forms</u> have been updated.
- 2. **Table of Contents**: The page numbers have been updated for the following sections: **S1400** and **S1400**.
  - Pages 368-374, Section 3.1d.1, Nivolumab (BMS-936558, MDX1106, Opdivo®) (NSC # 748726) (IND-119672): The nivolumab adverse effects section has been replace with a CTEP modified risk information Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.1, December 11, 2015. The section has been updated as follows:



Added New Risk:

- <u>Less Likely</u>: Hyperthyroidism; Injection site reaction; Lymphocyte count decreased; Platelet count decreased; Skin hypopigmentation
- <u>Rare but Serious</u>: Cardiac disorders Other (cardiomyopathy); Cytokine release syndrome; Encephalopathy; Eye disorders Other (Graves ophthalmopathy); Facial nerve disorder; Gastritis; Immune system disorders Other (sarcoid granuloma); Musculoskeletal and connective tissue disorder Other (polymyositis); Musculoskeletal and connective tissue disorder Other (rhabdomyolysis); Myocarditis; Nervous system disorders Other (demyelination myasthenic syndrome); Nervous system disorders Other (myasthenia gravis); Peripheral sensory neuropathy; Respiratory, thoracic and mediastinal disorders Other (bronchiolitis obliterans with organizing pneumonia)
- Also Reported but With Insufficient Evidence for Attribution: Alopecia; Anaphylaxis; Atrial • fibrillation; Atrioventricular block complete; Bile duct stenosis; Bronchial infection; Bronchospasm; CPK increased; Chills; Duodenal ulcer; Encephalitis infection; Endocrine disorders - Other (autoimmune thyroiditis); Endocrine disorders - Other (hypopituitarism); Enterocolitis; Eye disorders - Other (iridocyclitis); Flatulence; Flushing; Gastrointestinal disorders - Other (mouth sores); Heart failure; Hyperhidrosis; Hypertension; Hypocalcemia; Hyponatremia; Hypophosphatemia; Immune system disorders - Other (limbic encephalitis); Malaise; Mucositis oral; Musculoskeletal and connective tissue disorder - Other (musculoskeletal pain); Musculoskeletal and connective tissue disorder -Other (polymyalgia rheumatica); Neoplasms benign, malignant and unspecified (incl cysts and polyps) - Other (histiocytic necrotizing lymphadenitis); Nervous system disorders - Other (autoimmune neuropathy); Optic nerve disorder; Pain of skin; Pericarditis; Periorbital edema; Photosensitivity; Rash acneiform; Renal and urinary disorders - Other (nephritis); Renal and urinary disorders - Other (tubulointerstitial nephritis); Respiratory, thoracic and mediastinal disorders - Other (interstitial lung disease); Respiratory, thoracic and mediastinal disorders - Other (lung infiltration); Skin and subcutaneous tissue disorders - Other (rosacea); Stroke; Toxic epidermal necrolysis; Upper respiratory infection; Vasculitis; Vestibular disorder; Wheezing; White blood cell decreased

Increase in Risk Attribution:

- <u>Changed to Less Likely from Reported but With Insufficient Evidence for Attribution</u>: Blood bilirubin increased; Creatinine increased; Lipase increased; Neutrophil count decreased; Serum amylase increased
- <u>Changed to Rare but Serious from Reported but With Insufficient Evidence for Attribution</u>: Peripheral motor neuropathy

Decrease in Risk Attribution:

 <u>Changed to Reported but With Insufficient Evidence for Attribution from Less Likely</u>: Constipation; Cough; Dyspnea; Vomiting

Provided Further Clarification (e.g., changed from 'arrhythmia' to 'ventricular fibrillation'):

- Immune system disorders Other (Guillain-Barre syndrome) is now reported as Nervous system disorders - Other (Guillain-Barre syndrome)
- Footnote #5 has been modified to read "BMS-936558 (Nivolumab, MDX-1106) being a member of class of agents involved in the inhibition of "immune checkpoints", may result in severe and possibly fatal immune-mediated adverse events probably due to T-cell activation and proliferation. This may result in autoimmune disorders that can include (but are not limited to) autoimmune hemolytic anemia, acquired anti-factor VIII immune response, autoimmune aseptic meningitis, autoimmune hepatitis, autoimmune neuropathy, autoimmune thyroiditis, bullous pemphigoid, exacerbation of Churg-Strauss Syndrome, drug rash with eosinophilia systemic symptoms [DRESS] syndrome, facial nerve disorder (facial nerve paralysis), limbic encephalitis, hepatic



failure, pure red cell aplasia, pancreatitis, ulcerative and hemorrhagic colitis, endocrine disorders (e.g., autoimmune thyroiditis, hyperthyroidism, hypothyroidism, autoimmune hypophysitis/hypopituitarism, thyrotoxicosis, and adrenal insufficiency), sarcoid granuloma, myasthenia gravis, polymyositis, and Guillain-Barre syndrome."

• The following footnote #6 was added: "Cytokine release syndrome may manifest as hemophagocytic lymphohistiocytosis with accompanying fever and pancytopenia"

Modified Specific Protocol Exceptions to Expedited Reporting (SPEER) reporting requirements:

- <u>Added:</u> Abdominal pain; Alanine aminotransferase increased; Anemia; Aspartate aminotransferase increased; Blood bilirubin increased; Dry mouth; Fever; Hyperglycemia; Injection site reaction; Lymphocyte count decreased; Nausea
- 4. Pages 378-379, Section 3.1c.1, Ipilimumab (BMS-734016, MDX-010, YERVOY®) (NSC 732442) (IND-119672): The Ipilimumab adverse effects section has been replace with a CTEP modified risk information Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.7, June 28, 2015. The section has been updated as follows:
  - Added New Risk:
    - Rare But Serious: Immune system disorders Other (GVHD in the setting of allotransplant)
    - Also Reported on ipilimumab Trials But With Insufficient Evidence for Attribution: Alopecia

#### Model Consent Forms Changes

The following section refers to changes made to the Model Consent Form. Please refer to the IRB Review Requirements section on Page 1 of this memo.

- 1. The Version Date has been updated.
- 2. **Pages 106** [S1400], "What possible risks...": Patients currently receiving nivolumab must be informed of the bolded changes below. The manner by which this notification takes place is at the discretion of the local institution. The following changes have been made to the nivolumab side effects information:
  - Added New Risk:
    - <u>Occasional:</u> Bruising, bleeding; Skin changes; Swelling and redness at the site of the medication injection
    - <u>Rare, and Serious</u>: Abnormal movement of the facial muscles; Confusion; Muscle pain and/or weakness with dark red urine; Numbness, tingling or pain of the arms and legs; Reaction during or following a drug infusion which may cause fever, chills, rash; Swelling and pain around the eyes which may lead to vision changes and difficulty closing eyes
  - Decrease in Risk Attribution:
    - Changed to Reported but With Insufficient Evidence for Attribution from Occasional (i.e., removed from the Risk Profile): Cough; Shortness of breath; Constipation; Vomiting
  - <u>Provided Further Clarification:</u>
    - Damage to the body by own immune system (under Rare) is now reported as Damage to
      organs which may cause weakness or shortness of breath and/or cough (under Rare)
- 3. **Pages 107** [S1400], "What possible risks...": Patients currently receiving ipilimumab must be informed of the bolded changes below. The manner by which this notification takes place is at the discretion of the local institution. The following changes have been made to the ipilimumab side effects information:
  - Added New Risk:



- <u>Rare:</u> Damage to organs in the body when donor cells attack host organs which may cause yellowing of eyes and skin, or dry skin
- <u>Provided Further Clarification:</u>
  - Rash which may cause fever and swollen, red, painful bumps in the skin (previously under Common) is now reported as Rash (under Common) and Rash which may cause fever and swollen, red, painful bumps in the skin (under Occasional).

[Note: Sites should seek an updated investigator brochure as required by site's IRB of record. The Investigator's brochure is available through the CTSU website. Complete the CTSU Request for Clinical Brochure form located under LPO Documents – Pharmacy Forms or by clicking on the study link. Complete and return to <u>ctsucontact@westat.com</u>].

### An entire replacement protocol is attached. Please discard any previous versions of the protocol and attach this memorandum to the front of your copy of <u>S1400</u>.

#### This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Scott Gettinger, M.D. Lyudmila Bazhenova, M.D. Mary Redman, Ph.D. James Moon, M.S. Shannon McDonough, M.S. Louise Highleyman Kara Amber Bristol Myers Squibb







National Institutes of Health National Cancer Institute Bethesda, Maryland 20892

### **Action Letter**

DATE: March 17, 2016

- **FROM:** Howard Streicher, MD, Medical Officer, IDB, CTEP, DCTD, NCI James Zwiebel, MD, Branch Chief, IDB, CTEP, DCTD, NCI Meg Mooney, MD, Branch Chief, CIB, CTEP, DCTD, NCI
- **SUBJECT: CONFIDENTIAL COMMUNICATION** Action Letter for Ipilimumab (MDX-010, NSCs 732442 and 720801)
- **TO:** Investigators for CTEP-supported Studies Involving Ipilimumab (MDX-010, NSCs 732442 and 720801)

The purpose of this Action Letter is to alert patients and investigators in studies conducted by the Cancer Therapy Evaluation Program (CTEP), National Cancer Institute (NCI), of new and/or modified risk information associated with ipilimumab, and to request all trials with ipilimumab be amended to reflect these changes. You are receiving this letter because you are conducting a CTEP-sponsored trial that includes ipilimumab. See the accompanying list of CTEP trials with ipilimumab.

The RRA dated February 18, 2016 contained "instructional text" which is highlighted below that was for the Investigator/Treating Physician and which was **not** intended to be inserted into the informed consent document since the risks are already part of the condensed risks list. This updated RRA letter now makes this distinction clear. We regret that the instructions were not clear in this regard on the RRA of February 18, 2016 as well as on any previous RRAs for ipilimumab.

CTEP is requesting that this language be removed from the informed consent document. If you have submitted your amendment by close of business (COB) on March 1, 2016, CTEP's Protocol and Information Office (PIO) will remove this language from your amendment for you and return it to you (or your NCTN Group Operations Office) after review by the NCI Central Institutional Review Board. If you have not submitted your amendment by COB on March 1, 2016, CTEP requests that you remove the highlighted language prior to submission. The Action letter will now be sent out on March 17, 2016 instead of on March 10, 2016. If you have any questions about this information, please do not hesitate to contact PIO.

INSTRUCTIONAL TEXT IN PREVIOUS RRA (Dated 2/18/16) THAT SHOULD BE REMOVED:

### PLEASE NOTE THE FOLLOWING IN REVIEWING THESE RISKS:

Ipilimumab is an agent involved in the inhibition of "immune checkpoints," and may result in severe and possibly fatal immune-mediated side effects probably due to activation and growth of immune cells (T-cells). Immune-mediated side effects have been reported in patients receiving ipilimumab. In clinical trials, most immune-mediated side effects were reversible and managed by stopping ipilimumab temporarily, administration of corticosteroids and supportive care.

In response to the new/modified risk information CTEP is requiring that all trials with ipilimumab be amended to reflect this new information. Detailed description of the new/modified risk(s) as well as detailed instructions regarding amendment requirements are described in this Action Letter. Amendments are due to the Protocol and Information Office (PIO) at <u>PIO@CTEP.NCI.NIH.GOV</u> by 5 PM ET on March 31, 2016 or as required based on protocol status (see the *General Actions Required Based on Protocol Status* section). The cover letter for the submitted amendment should state that it is being submitted in response to an Action Letter from Dr. Howard Streicher (streicherh@ctep.nci.nih.gov). Failure to respond in a timely fashion may result in suspension of the Principal Investigator or permanent study closure.

After review of all the available data, CTEP believes that the new and/or modified risk information does <u>NOT</u> significantly alter the risk-benefit profile for patients in the study since ipilimumab is already known to cause serious adverse events and this new risk information does not change the overall weight given to risks versus benefits for patients in the study. CTEP considers all the proposed protocol and informed consent changes for studies affected by this Action Letter to be minor. Therefore, under the provisions of Department of Health and Human Services regulations for the protection of human subjects at 45 CFR 46.110, a protocol amendment that includes this new information can undergo expedited review if the Institutional Review Board (IRB) Chair (or other experienced IRB member designated to conduct expedited review by the Chair) concurs that the changes are minor. Additional information from the Office of Human Research Protections (OHRP) regarding this process is available at: <u>http://www.hhs.gov/ohrp/policy/Correspondence/nci200870929.html</u>.

The following section, *Specific Instruction*, includes background information on the risk(s), any risk mitigation strategies, and amendment requirements. The revised Comprehensive Adverse Events and Potential Risks (CAEPR) list (Attachment 1) and Informed Consent Document (ICD) risk information (Attachment 2) are also attached. Action Letter general instructions as well as instructions regarding amendment preparation (if a CTEP-approved amendment does not already accompany this Action Letter) are included in Attachment 3. You MUST follow the instructions outlined in Attachment 3.

### SPECIFIC INSTRUCTION

#### **Background**

As part of Good Clinical Practice CTEP reviews each Comprehensive Adverse Events and Potential Risks (CAEPR) list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with ipilimumab.

#### Detailed Description of Required Protocol Changes for the Amendment/ Sample Change Memo Template

1) <u>New Protocol Amendment/Version Date Included on the Title/Cover Page per Operations Office Policy:</u>

Protocol Cover Page: Page Number(s): \_\_\_\_\_ Version Date: \_\_\_\_\_

- <u>Revision of the Protocol CAEPR:</u> Protocol Section(s) for Insertion of Revised CAEPR (Version 2.7, June 28, 2015): \_\_\_\_\_ Page Number(s): \_\_\_\_\_
  - Added New Risk:
    - <u>Rare But Serious</u>: Immune system disorders Other (GVHD in the setting of allotransplant)
    - Also Reported on ipilimumab Trials But With Insufficient Evidence for Attribution: Alopecia

<u>PLEASE NOTE</u>: The specific detailed changes listed here compare the new revised CAEPR Version 2.7, and associated risk information for the Informed Consent Document (ICD), to the most recent CAEPR Version 2.6. If your trial contains an older CAEPR version (i.e., does <u>NOT</u> currently contain CAEPR Version 2.6), you <u>MUST</u> include a description of any additional changes resulting from migration from the older CAEPR version.

#### 3) <u>Revision of the ICD as specified below:</u>

The terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed format. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the informed consent document. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo.

- Added New Risk:
  - <u>Rare:</u> Damage to organs in the body when donor cells attack host organs which may cause yellowing of eyes and skin, or dry skin
- <u>Provided Further Clarification:</u>
  - Rash which may cause fever and swollen, red, painful bumps in the skin (previously under Common) is now reported as Rash (under Common) and Rash which may cause fever and swollen, red, painful bumps in the skin (under Occasional).

<u>PLEASE NOTE</u>: The potential risks listed in the CAEPR whose relationship to ipilimumab is still undetermined are not required by CTEP to be described in the ICD; however, they may be communicated to patients according to local IRB requirements.

#### Attachment 1: Revised Ipilimumab CAEPR – Version 2.7, June 28, 2015

### Comprehensive Adverse Events and Potential Risks list (CAEPR) for Ipilimumab (MDX-010, NSCs 732442 and 720801)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' <a href="http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf">http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf</a> for further clarification. *Frequency is provided based on 2678 patients*. Below is the CAEPR for Ipilimumab (MDX-010).

**NOTE**: Report AEs on the SPEER <u>ONLY IF</u> they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

			( cibioli <b>20</b> , ) o une 20, 2010
Adverse Events with Possible Relationship to Ipilimumab (MDX-010) (CTCAE 4.0 Term) [n= 2678]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
BLOOD AND LYMP	PHATIC SYSTEM DISORDERS		
		Blood and lymphatic system disorders - Other (acquired hemophilia)	
CARDIAC DISORDI	ERS		
	Atrial fibrillation		
		Myocarditis <sup>2</sup>	
EAR AND LABYRIN	NTH DISORDERS		
	Hearing impaired		
ENDOCRINE DISOF	RDERS		
	Adrenal insufficiency <sup>2</sup>		
	Endocrine disorders - Other (hypopituitarism/hypophysitis) <sup>2</sup>		
	Endocrine disorders - Other (testosterone deficiency) <sup>2</sup>		
	Hyperthyroidism <sup>2</sup>		
	Hypothyroidism <sup>2</sup>		
EYE DISORDERS			
	Eye disorders - Other (episcleritis) <sup>2</sup>		
	Uveitis <sup>2</sup>		
GASTROINTESTINA	AL DISORDERS		
	Abdominal pain		
	Colitis <sup>2</sup>		Colitis (Gr 3)
		Colonic perforation <sup>3</sup>	
	Constipation		
Diarrhea			Diarrhea (Gr 3)
	Enterocolitis		

Version 2.7, June 28, 2015<sup>1</sup>

Adverse Events with Possible Relationship to Ipilimumab (MDX-010) (CTCAE 4.0 Term) [n= 2678]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
	Esophagitis		
		Ileus	
Nausea			Nausea (Gr 3)
	Pancreatitis <sup>2</sup>		
	Vomiting		
GENERAL DISORDE	RS AND ADMINISTRATION SITE CO	ONDITIONS	
	Chills		
Fatigue			Fatigue (Gr 3)
	Fever		Fever (Gr 2)
	Infusion related reaction		
		Multi-organ failure	
HEPATOBILIARY D			
	Hepatobiliary disorders - Other (hepatitis) <sup>2</sup>		
IMMUNE SYSTEM D	ISORDERS		
	Autoimmune disorder <sup>2</sup>		
		Immune system disorders - Other (GVHD in the setting of allotransplant)	
INFECTIONS AND IN	IFESTATIONS		
	Infections and infestations - Other (aseptic meningitis) <sup>2</sup>		
INVESTIGATIONS			
	Alanine aminotransferase increased		
	Aspartate aminotransferase increased		
	Neutrophil count decreased		
METABOLISM AND	NUTRITION DISORDERS		
	Anorexia		
	Dehydration		
	Hyperglycemia		
MUSCULOSKELETA	L AND CONNECTIVE TISSUE DISO	RDERS	
	Arthralgia		
	Arthritis		
	Musculoskeletal and connective tissue disorder - Other (polymyositis) <sup>2</sup>		
NERVOUS SYSTEM			
	Facial nerve disorder		
	Headache		
	Nervous system disorders - Other (Guillain-Barre syndrome) <sup>2</sup>		
	Nervous system disorders - Other (myasthenia gravis) <sup>2</sup>		
	Trigeminal nerve disorder		
RENAL AND URINA			
	Acute kidney injury		

Adverse Events with Possible Relationship to Ipilimumab (MDX-010) (CTCAE 4.0 Term) [n= 2678]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
	Renal and urinary disorders - Other (granulomatous tubulointerstitial nephritis)		
RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS			
Pneumonitis			
SKIN AND SUBCUT	ANEOUS TISSUE DISORDERS		
		Erythema multiforme	
	Pruritus		Pruritus (Gr 3)
Rash maculo-papular			Rash maculo-papular (Gr 3)
	Skin and subcutaneous disorders - Other (Sweet's Syndrome)		
		Stevens-Johnson syndrome	
		Toxic epidermal necrolysis	
	Urticaria		
VASCULAR DISORE	DERS		
	Hypotension		

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV</u>. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.

<sup>2</sup>Ipilimumab can result in severe and fatal immune-mediated adverse events probably due to T-cell activation and proliferation. These can include (but are not limited to) autoimmune hemolytic anemia, acquired anti-factor VIII immune response, autoimmune aseptic meningitis, autoimmune hepatitis, autoimmune thyroiditis, hepatic failure, pure red cell aplasia, pancreatitis, ulcerative and hemorrhagic colitis, endocrine disorders (e.g., autoimmune thyroiditis, hyperthyroidism, hypothyroidism, autoimmune hypophysitis/hypopituitarism, and adrenal insufficiency), ocular manifestations (e.g., uveitis, iritis, conjunctivitis, blepharitis, and episcleritis), sarcoid granuloma, myasthenia gravis, polymyositis, and Guillain-Barre syndrome. The majority of these reactions manifested early during treatment; however, a minority occurred weeks to months after discontinuation of ipilimumab especially with the initiation of additional treatments.

<sup>3</sup>Late bowel perforations have been noted in patients receiving MDX-010 (ipilimumab) in association with subsequent IL-2 therapy.

<sup>4</sup>In rare cases diplopia (double vision) has occurred as a result of muscle weakness (Myasthenia gravis).

<sup>5</sup>Gastrointestinal hemorrhage includes Anal hemorrhage, Cecal hemorrhage, Colonic hemorrhage, Duodenal hemorrhage, Esophageal hemorrhage, Esophageal varices hemorrhage, Gastric hemorrhage, Hemorrhoidal hemorrhage, Ileal hemorrhage, Intra-abdominal hemorrhage, Jejunal hemorrhage, Lower gastrointestinal hemorrhage, Oral hemorrhage, Pancreatic hemorrhage, Rectal hemorrhage, Retroperitoneal hemorrhage, and Upper gastrointestinal hemorrhage under the GASTROINTESTINAL DISORDERS SOC

<sup>6</sup>Infection includes all 75 sites of infection under the INFECTIONS AND INFESTATIONS SOC.

Adverse events reported on Ipilimumab (MDX-010) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that Ipilimumab (MDX-010) caused the adverse event:

**BLOOD AND LYMPHATIC SYSTEM DISORDERS** - Anemia; Blood and lymphatic system disorders - Other (pure red cell aplasia)<sup>2</sup>; Febrile neutropenia

CARDIAC DISORDERS - Conduction disorder; Restrictive cardiomyopathy

**EYE DISORDERS** - Extraocular muscle paresis<sup>4</sup>; Eye disorders - Other (retinal pigment changes)

GASTROINTESTINAL DISORDERS - Dyspepsia; Dysphagia; Gastrointestinal hemorrhage<sup>5</sup>

GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS - Flu like symptoms; Non-cardiac chest pain

HEPATOBILIARY DISORDERS - Hepatic failure<sup>2</sup>

**IMMUNE SYSTEM DISORDERS** - Allergic reaction

**INFECTIONS AND INFESTATIONS** - Infection<sup>6</sup>

**INVESTIGATIONS** - Creatinine increased; Investigations - Other (rheumatoid factor); Lipase increased; Platelet count decreased; Serum amylase increased; Weight loss; White blood cell decreased

**METABOLISM AND NUTRITION DISORDERS** - Metabolism and nutrition disorders - Other (exacerbation of preexisting diabetes mellitus)

**MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS** - Back pain; Joint range of motion decreased; Myalgia; Pain in extremity

**NEOPLASMS BENIGN, MALIGNANT AND UNSPECIFIED (INCL CYSTS AND POLYPS)** - Tumor pain **NERVOUS SYSTEM DISORDERS** - Dizziness; Dysphasia; Ischemia cerebrovascular; Peripheral motor neuropathy; Peripheral sensory neuropathy; Seizure

PSYCHIATRIC DISORDERS - Anxiety; Confusion; Depression; Insomnia

**RENAL AND URINARY DISORDERS** - Proteinuria

**RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS** - Allergic rhinitis; Cough; Dyspnea; Laryngospasm

SKIN AND SUBCUTANEOUS TISSUE DISORDERS - Alopecia, Dry skin; Hyperhidrosis; Skin hypopigmentation VASCULAR DISORDERS - Flushing; Hypertension; Vascular disorders - Other (temporal arteritis)

**Note**: Ipilimumab (MDX-010) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

#### Attachment 2: Revised ICD Section(s) for Ipilimumab

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed format. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the informed consent document. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. <u>Please insert this condensed risk profile as the Table of Possible Side Effects for Ipilimumab in your ICD.</u>

### Risk Profile for Ipilimumab (CAEPR Version 2.7, June 28, 2015)

**NOTE:** The risk list section in the new NCI Consent Form Template (latest version: May 2013) will include the wording below:

"If you choose to take part in this study, there is a risk that:

- You may lose time at work or home and spend more time in the hospital or doctor's office than usual
- You may be asked sensitive or private questions which you normally do not discuss

The Ipilimumab used in this study may affect how different parts of your body work such as your liver, kidneys, heart, and blood. The study doctor will be testing your blood and will let you know if changes occur that may affect your health.

There is also a risk that you could have side effects from the study drug(s)/study approach.

Here are important points about side effects:

- The study doctors do not know who will or will not have side effects.
- Some side effects may go away soon, some may last a long time, or some may never go away.
- Some side effects may interfere with your ability to have children.
- Some side effects may be serious and may even result in death.

Here are important points about how you and the study doctor can make side effects less of a problem:

- Tell the study doctor if you notice or feel anything different so they can see if you are having a side effect.
- The study doctor may be able to treat some side effects.
- The study doctor may adjust the study drugs to try to reduce side effects.

The tables below show the most common and the most serious side effects that researchers know about. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you."

Please insert this condensed risk profile as the Table of Possible Side Effects for Ipilimumab in your ICD.

### HIGHLIGHTED LANGUAGE IS INSTRUCTIONAL TEXT FOR PRINCIPAL INVESTIGATOR—<u>NOT</u> TO BE INCLUDED IN THE INFORMED CONSENT DOCUMENT

### PLEASE NOTE THE FOLLOWING IN REVIEWING THESE RISKS:

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Ipilimumab is an agent involved in the inhibition of "immune checkpoints," and may result in severe and possibly fatal immune-mediated side effects probably due to activation and growth of immune cells (T-cells). Immune-mediated side effects have been reported in patients receiving ipilimumab. In clinical trials, most immune-mediated side effects were reversible and managed by stopping ipilimumab temporarily, administration of corticosteroids and supportive care.

### **COMMON, SOME MAY BE SERIOUS**

In 100 people receiving ipilimumab, more than 20 and up to 100 may have:

- Diarrhea, nausea
- Tiredness
- Rash

### OCCASIONAL, SOME MAY BE SERIOUS

In 100 people receiving ipilimumab, from 4 to 20 may have:

- Abnormal heartbeat
- Hearing loss
- Swelling and redness of the eye
- Pain
- Constipation, vomiting
- Swelling of the body which may cause shortness of breath
- Difficulty swallowing, eating
- Chills, fever
- Reaction during or following infusion of the drug
- Damage to organs leading to prolonged hospitalization
- Loss of appetite, dehydration
- Abnormal movement of the facial muscles
- Headache
- Weakness and paralysis
- Kidney damage which may require dialysis
- Itching, hives
- Rash which may cause fever and swollen, red, painful bumps in the skin
- Low blood pressure which may cause feeling faint

### RARE, AND SERIOUS

In 100 people receiving ipilimumab, 3 or fewer may have:

- Bleeding
- A tear or hole in the stomach that may require surgery
- Damage to organs in the body when donor cells attack host organs which may cause yellowing of eyes and skin, or dry skin\*
- Severe skin rash with blisters and peeling which can involve mouth and other parts of the body

\*This is applicable for patients who have undergone a stem cell transplant.

#### Attachment 3: Action Letter GENERAL INSTRUCTIONS

- 1. Distribute this Action Letter (and any accompanying CTEP-approved amendment) to all participating investigators and IRBs within 2 working days. For National Clinical Trials Network (NCTN) studies, please follow instructions from your Operations office. For sites participating in the NCI Central-IRB (CIRB) Initiative, CTEP has provided a copy of this Action Letter to the CIRB if the Action Letter affects any studies under CIRB review.
- 2. Accrual of new patients must be suspended until the IRB of record has reviewed and approved a CTEPapproved amendment created in response to this Action Letter. This amendment can undergo expedited approval at the discretion of the IRB Chair/designee as explained on the first page of the Action Letter.
- 3. Patients currently on study may continue on study provided they are informed of the new and/or modified risk information. This information should be communicated to patients already enrolled on study without waiting for IRB review/approval since this information represents a significant new finding(s) that developed during the course of the research that may relate to a patient's willingness to continue participation and per the Office for Human Research Protections, the regulations do not require IRB review and approval of statements describing such significant new findings before they are provided to already enrolled patients. Documentation of their informed consent should be carried out according to local IRB requirements.
- 4. Save a copy of the Action Letter (and any CTEP approval letter for an accompanying amendment) for your records.

# INSTRUCTIONS FOR PREPARATION OF AN AMENDMENT IN RESPONSE TO THIS Action Letter (if a CTEP-Approved amendment for your trial does <u>not</u> already accompany the Action Letter) General Instructions on Amendment Preparation:

- 1. Instructions regarding the due date for an amendment and where to send it are included on the first page of this Action Letter. The Clinical Trials Operations Offices may use the *Detailed Description of Required Protocol Changes* section in this Action Letter as the template for their Change Memo; however, it is not required if an Operations Office prefers to use its own Change Memo.
- 2. If any of the NCI-required changes are not applicable for your trial (i.e., already appear in your protocol), note this in your Change Memo.
- 3. The ICD changes include CTEP's suggested lay terms for each adverse event identified in the CAEPR. You may substitute different lay terms for each concept if appropriate for your patient population. If you have chosen to reformat and/or reword the risk profile in any way, please state, "The risk profile has been modified" in the cover memo.

#### **Specific Instructions on Amendment Preparation Based on Protocol Status:**

- A. Trials with a current CTEP status of "Active"
  - Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
  - The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's editorial and administrative update policy (http://ctep.cancer.gov/protocolDevelopment/docs/requestsubmissionpolicyfinal.pdf).
  - Suspend accrual of new patients until the IRB of record has reviewed and approved a CTEP-approved amendment created in response to this Action Letter.

- B. <u>Trials with a current status of "Approved", "Temporarily Closed to Accrual and Treatment", or</u> <u>"Temporarily Closed to Accrual</u>"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter in the next revised protocol draft submitted to CTEP. The protocol amendment must be submitted and approved by CTEP <u>before</u> the trial can be activated or re-opened.
  - You may include additional non-Action Letter related changes (any type) in your amendment response.
- C. Trials with a current CTEP status of "In Review"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter. These changes must be included in the next revised protocol draft submitted to and approved by CTEP <u>before</u> the trial can be activated.
  - You may include additional non-Action Letter related changes (any type) in your revision response. Note the inclusion of non-Action Letter related changes may delay approval of your trial.

### D. Trials with a current CTEP status of "Closed to Accrual"

### If your trial is under a CTEP-held IND:

- Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
- The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy (<u>http://ctep.cancer.gov/protocolDevelopment/amendments.htm</u>).

#### If your trial is NOT under a CTEP-held IND:

If Action Letter INCLUDES information that impacts patient care (e.g., new/adjusted dose modifications or special monitoring for patient population at risk) - An amendment is required. Review and follow <u>ALL</u> the instructions outlined in this Action Letter. The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy (http://ctep.cancer.gov/protocolDevelopment/amendments.htm).

# • If Action Letter does NOT INCLUDE information that impacts patient care - Amendment is typically NOT required.

- E. Trials with a current CTEP status of "Closed to Accrual and Treatment" or "Complete"
  - Amendment is not required. This information is being sent for informational purposes only. You may follow local IRB or Operations Office procedures and requirements.





National Institutes of Health National Cancer Institute Bethesda, Maryland 20892

### **Action Letter**

DATE: March 17, 2016

- **FROM:** Howard Streicher, MD, Medical Officer, IDB, CTEP, DCTD, NCI James Zwiebel, MD, Branch Chief, IDB, CTEP, DCTD, NCI Meg Mooney, MD, Branch Chief, CIB, CTEP, DCTD, NCI
- SUBJECT: CONFIDENTIAL COMMUNICATION Action Letter for BMS-936558 (Nivolumab, MDX-1106, NSC 748726)
- **TO:** Investigators for CTEP-supported Studies Involving BMS-936558 (Nivolumab, MDX-1106, NSC 748726)

The purpose of this Action Letter is to alert patients and investigators in studies conducted by the Cancer Therapy Evaluation Program (CTEP), National Cancer Institute (NCI), of new and/or modified risk information associated with BMS-936558 (Nivolumab), and to request all trials with BMS-936558 (Nivolumab) be amended to reflect these changes. You are receiving this letter because you are conducting a CTEP-sponsored trial that includes BMS-936558 (Nivolumab). See the accompanying list of CTEP trials with BMS-936558 (Nivolumab).

The RRA dated February 18, 2016 contained "instructional text" which is highlighted below that was for the Investigator/Treating Physician and which was **not** intended to be inserted into the informed consent document since the risks are already part of the condensed risks list. This updated RRA letter now makes this distinction clear. We regret that the instructions were not clear in this regard on the RRA of February 18, 2016 as well as on any previous RRAs for BMS-936558 (Nivolumab).

CTEP is requesting that this language be removed from the informed consent document. If you have submitted your amendment by close of business (COB) on March 1, 2016, CTEP's Protocol and Information Office (PIO) will remove this language from your amendment for you and return it to you (or your NCTN Group Operations Office) after review by the NCI Central Institutional Review Board. If you have not submitted your amendment by COB on March 1, 2016, CTEP requests that you remove the highlighted language prior to submission. The Action letter will now be sent out on March 17, 2016 instead of on March 10, 2016. Also please note that you may use either "BMS-936558" or "Nivolumab" in the informed consent document (ICD) and ICD risk tables to refer to the agent depending on how you previously worded your consent. If you have any questions about this information, please do not hesitate to contact PIO.

INSTRUCTIONAL TEXT IN PREVIOUS RRA (Dated 2/18/16) THAT SHOULD BE REMOVED:

### PLEASE NOTE THE FOLLOWING IN REVIEWING THESE RISKS

BMS-936558 is an agent involved in the inhibition of "immune checkpoints," and may result in severe and possibly fatal immune-mediated side effects probably due to activation and growth of immune cells (T-cells). Immune-mediated side effects have been reported in patients receiving BMS-936558. In clinical trials, most immune-mediated side effects were reversible and managed by stopping BMS-936558 temporarily, administration of corticosteroids and supportive care.

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In response to the new/modified risk information CTEP is requiring that all trials with BMS-936558 (Nivolumab) be amended to reflect this new information. Detailed description of the new/modified risk(s) as well as detailed instructions regarding amendment requirements are described in this Action Letter. **Amendments are due to the Protocol and Information Office (PIO) at <u>PIO@CTEP.NCI.NIH.GOV</u> by 5 <b>PM ET on March 31, 2016** or as required based on protocol status (see the *General Actions Required Based on Protocol Status* section). The cover letter for the submitted amendment should state that it is being submitted in response to an Action Letter from Dr. Howard Streicher (streicherh@ctep.nci.nih.gov). Failure to respond in a timely fashion may result in suspension of the Principal Investigator or permanent study closure.

After review of all the available data, CTEP believes that the new and/or modified risk information does **NOT** significantly alter the risk-benefit profile for patients in the study since BMS-936558 (Nivolumab) is already known to cause serious adverse events and this new risk information does not change the overall weight given to risks versus benefits for patients in the study. CTEP considers all the proposed protocol and informed consent changes for studies affected by this Action Letter to be minor. Therefore, under the provisions of Department of Health and Human Services regulations for the protection of human subjects at 45 CFR 46.110, a protocol amendment that includes this new information can undergo expedited review if the Institutional Review Board (IRB) Chair (or other experienced IRB member designated to conduct expedited review by the Chair) concurs that the changes are minor. Additional information from the Office of Human Research Protections (OHRP) regarding this process is available at: http://www.hhs.gov/ohrp/policy/Correspondence/nci200870929.html.

The following section, *Specific Instruction*, includes background information on the risk(s), any risk mitigation strategies, and amendment requirements. The revised Comprehensive Adverse Events and Potential Risks (CAEPR) list (Attachment 1) and Informed Consent Document (ICD) risk information (Attachment 2) are also attached. Action Letter general instructions as well as instructions regarding amendment preparation (if a CTEP-approved amendment does not already accompany this Action Letter) are included in Attachment 3. You MUST follow the instructions outlined in Attachment 3.

### SPECIFIC INSTRUCTION

#### **Background**

As part of Good Clinical Practice CTEP reviews each Comprehensive Adverse Events and Potential Risks (CAEPR) list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with BMS-936558.

#### Detailed Description of Required Protocol Changes for the Amendment/ Sample Change Memo Template

1) <u>New Protocol Amendment/Version Date Included on the Title/Cover Page per Operations Office Policy:</u>

Protocol Cover Page: Page Number(s): \_\_\_\_\_\_ Version Date: \_\_\_\_\_\_

- <u>Revision of the Protocol CAEPR</u>: Protocol Section(s) for Insertion of Revised CAEPR (Version 2.1, December 11, 2015): \_\_\_\_\_ Page Number(s): \_\_\_\_\_
  - Added New Risk:
    - <u>Less Likely</u>: Hyperthyroidism; Injection site reaction; Lymphocyte count decreased; Platelet count decreased; Skin hypopigmentation
    - <u>Rare but Serious:</u> Cardiac disorders Other (cardiomyopathy); Cytokine release syndrome; Encephalopathy; Eye disorders - Other (Graves ophthalmopathy); Facial nerve disorder; Gastritis; Immune system disorders - Other (sarcoid granuloma); Musculoskeletal and connective tissue disorder - Other (polymyositis); Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis); Myocarditis; Nervous system disorders - Other (demyelination myasthenic syndrome); Nervous system disorders - Other (myasthenia gravis); Peripheral sensory neuropathy; Respiratory, thoracic and mediastinal disorders - Other (bronchiolitis obliterans with organizing pneumonia)
    - Also Reported but With Insufficient Evidence for Attribution: Alopecia; Anaphylaxis; Atrial • fibrillation; Atrioventricular block complete; Bile duct stenosis; Bronchial infection; Bronchospasm; CPK increased; Chills; Duodenal ulcer; Encephalitis infection; Endocrine disorders - Other (autoimmune thyroiditis); Endocrine disorders - Other (hypopituitarism); Enterocolitis; Eye disorders -Other (iridocyclitis); Flatulence; Flushing; Gastrointestinal disorders - Other (mouth sores); Heart failure; Hyperhidrosis; Hypertension; Hypocalcemia; Hyponatremia; Hypophosphatemia; Immune system disorders - Other (limbic encephalitis); Malaise; Mucositis oral; Musculoskeletal and connective tissue disorder - Other (musculoskeletal pain); Musculoskeletal and connective tissue disorder - Other (polymyalgia rheumatica); Neoplasms benign, malignant and unspecified (incl cysts and polyps) - Other (histiocytic necrotizing lymphadenitis); Nervous system disorders - Other (autoimmune neuropathy); Optic nerve disorder; Pain of skin; Pericarditis; Periorbital edema; Photosensitivity; Rash acneiform; Renal and urinary disorders - Other (nephritis); Renal and urinary disorders - Other (tubulointerstitial nephritis); Respiratory, thoracic and mediastinal disorders - Other (interstitial lung disease); Respiratory, thoracic and mediastinal disorders - Other (lung infiltration); Skin and subcutaneous tissue disorders - Other (rosacea); Stroke; Toxic epidermal necrolysis; Upper respiratory infection; Vasculitis; Vestibular disorder; Wheezing; White blood cell decreased

- Increase in Risk Attribution:
  - <u>Changed to Less Likely from Reported but With Insufficient Evidence for Attribution:</u> Blood bilirubin increased; Creatinine increased; Lipase increased; Neutrophil count decreased; Serum amylase increased
  - <u>Changed to Rare but Serious from Reported but With Insufficient Evidence for Attribution:</u> Peripheral motor neuropathy
- Decrease in Risk Attribution:
  - <u>Changed to Reported but With Insufficient Evidence for Attribution from Less Likely:</u> Constipation; Cough; Dyspnea; Vomiting
- <u>Provided Further Clarification (e.g., changed from 'arrhythmia' to 'ventricular fibrillation'):</u>
  - Immune system disorders Other (Guillain-Barre syndrome) is now reported as Nervous system disorders Other (Guillain-Barre syndrome)
  - Footnote #5 has been modified to read "BMS-936558 (Nivolumab, MDX-1106) being a member of class of agents involved in the inhibition of "immune checkpoints", may result in severe and possibly fatal immune-mediated adverse events probably due to T-cell activation and proliferation. This may result in autoimmune disorders that can include (but are not limited to) autoimmune hemolytic anemia, acquired anti-factor VIII immune response, autoimmune aseptic meningitis, autoimmune hepatitis, autoimmune neuropathy, autoimmune thyroiditis, bullous pemphigoid, exacerbation of Churg-Strauss Syndrome, drug rash with eosinophilia systemic symptoms [DRESS] syndrome, facial nerve disorder (facial nerve paralysis), limbic encephalitis, hepatic failure, pure red cell aplasia, pancreatitis, ulcerative and hemorrhagic colitis, endocrine disorders (e.g., autoimmune thyroiditis, hyperthyroidism, hypothyroidism, autoimmune hypophysitis/hypopituitarism, thyrotoxicosis, and adrenal insufficiency), sarcoid granuloma, myasthenia gravis, polymyositis, and Guillain-Barre syndrome."
  - The following footnote #6 was added: "Cytokine release syndrome may manifest as hemophagocytic lymphohistiocytosis with accompanying fever and pancytopenia"
- Modified Specific Protocol Exceptions to Expedited Reporting (SPEER) reporting requirements:
  - <u>Added:</u> Abdominal pain; Alanine aminotransferase increased; Anemia; Aspartate aminotransferase increased; Blood bilirubin increased; Dry mouth; Fever; Hyperglycemia; Injection site reaction; Lymphocyte count decreased; Nausea

<u>PLEASE NOTE</u>: The specific detailed changes listed here compare the new revised CAEPR Version 2.1, and associated risk information for the Informed Consent Document (ICD), to the most recent CAEPR Version 2.0. If your trial contains an older CAEPR version (i.e., does <u>NOT</u> currently contain CAEPR Version 2.0), you <u>MUST</u> include a description of any additional changes resulting from migration from the older CAEPR version.

3) <u>Revision of the ICD as specified below:</u>

The terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed format. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the informed consent document. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo.

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- Added New Risk:
  - <u>Occasional:</u> Bruising, bleeding; Skin changes; Swelling and redness at the site of the medication injection
  - <u>Rare, and Serious</u>: Abnormal movement of the facial muscles; Confusion; Muscle pain and/or weakness with dark red urine; Numbness, tingling or pain of the arms and legs; Reaction during or following a drug infusion which may cause fever, chills, rash; Swelling and pain around the eyes which may lead to vision changes and difficulty closing eyes
- Decrease in Risk Attribution:
  - <u>Changed to Reported but With Insufficient Evidence for Attribution from Occasional (i.e., removed from the Risk Profile)</u>: Cough; Shortness of breath; Constipation; Vomiting
- <u>Provided Further Clarification:</u>
  - Damage to the body by own immune system (under Rare) is now reported as Damage to organs which may cause weakness or shortness of breath and/or cough (under Rare)

<u>PLEASE NOTE</u>: The potential risks listed in the CAEPR whose relationship to BMS-936558 is still undetermined are not required by CTEP to be described in the ICD; however, they may be communicated to patients according to local IRB requirements.

### Attachment 1: Revised BMS-936558 CAEPR – Version 2.1, December 11, 2015

### Comprehensive Adverse Events and Potential Risks list (CAEPR) for BMS-936558 (Nivolumab, MDX-1106, NSC 748726)

The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. In addition to the comprehensive list, a subset, the Specific Protocol Exceptions to Expedited Reporting (SPEER), appears in a separate column and is identified with bold and italicized text. This subset of AEs (SPEER) is a list of events that are protocol specific exceptions to expedited reporting to NCI (except as noted below). Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements' <u>http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/docs/aeguidelines.pdf</u> for further clarification. *Frequency is provided based on 2069 patients*. Below is the CAEPR for BMS-936558 (Nivolumab, MDX-1106).

**NOTE**: Report AEs on the SPEER <u>ONLY IF</u> they exceed the grade noted in parentheses next to the AE in the SPEER. If this CAEPR is part of a combination protocol using multiple investigational agents and has an AE listed on different SPEERs, use the lower of the grades to determine if expedited reporting is required.

Adverse Events with Possible Relationship to BMS-936558 (Nivolumab, MDX-1106) (CTCAE 4.0 Term) [n= 2069]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
BLOOD AND LYMPHATIC			
	Anemia		Anemia (Gr 2)
CARDIAC DISORDERS			
		Cardiac disorders - Other (cardiomyopathy)	
		Myocarditis	
		Pericardial tamponade <sup>2</sup>	
ENDOCRINE DISORDERS			
	Adrenal insufficiency		
	Endocrine disorders - Other (hypophysitis)		
	Hyperthyroidism		
	Hypothyroidism		
EYE DISORDERS			
		Eye disorders - Other (diplopia)	
		Eye disorders - Other (Graves ophthalmopathy)	
		Eye disorders - Other (optic neuritis retrobulbar)	
	Uveitis		
GASTROINTESTINAL DIS	ORDERS		
	Abdominal pain		Abdominal pain (Gr 2)
	Colitis		
		Colonic perforation	
	Diarrhea		Diarrhea (Gr 2)
	Dry mouth		Dry mouth (Gr 2)

Version 2.1, December 11, 2015<sup>1</sup>

Adverse Events with Possible Relationship to BMS-936558 (Nivolumab, MDX-1106) (CTCAE 4.0 Term) [n= 2069]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
		Gastritis	
	Nausea		Nausea (Gr 2)
	Pancreatitis <sup>3</sup>		
GENERAL DISORDERS A	ND ADMINISTRATION SITE (	CONDITIONS	
Fatigue			Fatigue (Gr 2)
	Fever		Fever (Gr 2)
		Infusion related reaction <sup>4</sup>	
	Injection site reaction		Injection site reaction (Gr 2)
IMMUNE SYSTEM DISOR	DERS		
		Allergic reaction	
		Autoimmune disorder <sup>5</sup>	
		Cytokine release syndrome <sup>6</sup>	
		Immune system disorders - Other (sarcoid granuloma) <sup>5</sup>	
INVESTIGATIONS			
	Alanine aminotransferase		Alanine aminotransferase increased
	increased		(Gr 2)
	Aspartate aminotransferase increased		Aspartate aminotransferase increased (Gr 2)
	Blood bilirubin increased		Blood bilirubin increased (Gr 2)
	Creatinine increased		
	Lipase increased		
	Lymphocyte count decreased		Lymphocyte count decreased (Gr 2)
	Neutrophil count decreased		
	Platelet count decreased		
	Serum amylase increased		
METABOLISM AND NUTI	RITION DISORDERS	·	
	Anorexia		
		Hyperglycemia	Hyperglycemia (Gr 2)
		Metabolism and nutrition disorders - Other (diabetes mellitus with ketoacidosis)	
MUSCULOSKELETAL AN	D CONNECTIVE TISSUE DISC	,	
	Arthralgia		
		Musculoskeletal and connective tissue disorder - Other (polymyositis)	
		Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis)	
NERVOUS SYSTEM DISO	RDERS		
		Encephalopathy	
		Facial nerve disorder <sup>5</sup>	
		Nervous system disorders - Other	
		(demyelination myasthenic syndrome)	
		Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup>	

Adverse Events with Possible Relationship to BMS-936558 (Nivolumab, MDX-1106) (CTCAE 4.0 Term) [n= 2069]			Specific Protocol Exceptions to Expedited Reporting (SPEER)
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
		Nervous system disorders - Other (meningoencephalitis)	
		Nervous system disorders - Other (meningoradiculitis)	
		Nervous system disorders - Other (myasthenia gravis) <sup>5</sup>	
		Nervous system disorders - Other (myasthenic syndrome)	
		Peripheral motor neuropathy	
		Peripheral sensory neuropathy	
RENAL AND URINARY DISC	ORDERS		
		Acute kidney injury	
RESPIRATORY, THORACIC	AND MEDIASTINAL DISOF	RDERS	
	Pleural effusion		
	Pneumonitis		
		Respiratory, thoracic and mediastinal disorders - Other (bronchiolitis obliterans with organizing pneumonia)	
SKIN AND SUBCUTANEOUS TISSUE DISORDERS			
		Erythema multiforme	
	Pruritus		Pruritus (Gr 2)
	Rash maculo-papular		Rash maculo-papular (Gr 2)
	Skin hypopigmentation		

<sup>1</sup>This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting <u>PIO@CTEP.NCI.NIH.GOV</u>. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail

<sup>2</sup>Pericardial tamponade may be related to possible inflammatory reaction at tumor site.

<sup>3</sup>Pancreatitis may result in increased serum amylase and/or more frequently lipase.

<sup>4</sup>Infusion reactions, including high-grade hypersensitivity reactions which have been observed following administration of nivolumab, may manifest as fever, chills, shakes, itching, rash, hypertension or hypotension, or difficulty breathing during and immediately after administration of nivolumab.

<sup>5</sup>BMS-936558 (Nivolumab, MDX-1106) being a member of class of agents involved in the inhibition of "immune checkpoints", may result in severe and possibly fatal immune-mediated adverse events probably due to T-cell activation and proliferation. This may result in autoimmune disorders that can include (but are not limited to) autoimmune hemolytic anemia, acquired anti-factor VIII immune response, autoimmune aseptic meningitis, autoimmune hepatitis, autoimmune nephritis, autoimmune neuropathy, autoimmune thyroiditis, bullous pemphigoid, exacerbation of Churg-Strauss Syndrome, drug rash with eosinophilia systemic symptoms [DRESS] syndrome, facial nerve disorder (facial nerve paralysis), limbic encephalitis, hepatic failure, pure red cell aplasia, pancreatitis, ulcerative and hemorrhagic colitis, endocrine disorders (e.g., autoimmune thyroiditis, hyperthyroidism, hypothyroidism, autoimmune hypophysitis/hypopituitarism, thyrotoxicosis, and adrenal insufficiency), sarcoid granuloma, myasthenia gravis, polymyositis, and Guillain-Barre syndrome.

<sup>6</sup>Cytokine release syndrome may manifest as hemophagocytic lymphohistiocytosis with accompanying fever and

### CONFIDENTIAL - Page 8 of 13

pancytopenia.

Adverse events reported on BMS-936558 (Nivolumab, MDX-1106) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that BMS-936558 (Nivolumab, MDX-1106) caused the adverse event:

**CARDIAC DISORDERS** - Atrial fibrillation; Atrioventricular block complete; Heart failure; Pericarditis; Ventricular arrhythmia

EAR AND LABYRINTH DISORDERS - Vestibular disorder

**ENDOCRINE DISORDERS** - Endocrine disorders - Other (autoimmune thyroiditis); Endocrine disorders - Other (hypopituitarism)

EYE DISORDERS - Eye disorders - Other (iridocyclitis); Optic nerve disorder

**GASTROINTESTINAL DISORDERS** - Constipation; Duodenal ulcer; Enterocolitis; Flatulence; Gastrointestinal disorders - Other (mouth sores); Mucositis oral; Vomiting

**GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS** - Chills; Edema limbs; Malaise; Pain **HEPATOBILIARY DISORDERS** - Bile duct stenosis; Hepatobiliary disorders - Other (autoimmune hepatitis) **IMMUNE SYSTEM DISORDERS** - Anaphylaxis; Immune system disorders - Other (limbic encephalitis) **INFECTIONS AND INFESTATIONS** - Bronchial infection; Encephalitis infection; Lung infection; Sepsis; Upper

respiratory infection

**INVESTIGATIONS** - Alkaline phosphatase increased; CPK increased; GGT increased; Investigations - Other (blood LDH increased); Investigations - Other (CRP increased); Investigations - Other (eosinophil count increased); Investigations - Other (protein total decreased); Investigations - Other (thyroxine free increased); Investigations - Other (tri-iodothyronine

free decreased); Investigations - Other (WBC count increased); Lymphocyte count increased; Weight loss; White blood cell decreased

**METABOLISM AND NUTRITION DISORDERS** - Dehydration; Hyperuricemia; Hypoalbuminemia; Hypocalcemia; Hyponatremia; Hypophosphatemia

**MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS** - Arthritis; Back pain; Musculoskeletal and connective tissue disorder - Other (musculoskeletal pain); Musculoskeletal and connective tissue disorder - Other (polymyalgia rheumatica); Myalgia; Pain in extremity

**NEOPLASMS BENIGN, MALIGNANT AND UNSPECIFIED (INCL CYSTS AND POLYPS)** - Neoplasms benign, malignant and unspecified (incl cysts and polyps) - Other (histiocytic necrotizing lymphadenitis)

**NERVOUS SYSTEM DISORDERS** - Dizziness; Headache; Intracranial hemorrhage; Nervous system disorders - Other (autoimmune neuropathy); Stroke

**PSYCHIATRIC DISORDERS** - Insomnia

**RENAL AND URINARY DISORDERS** - Hematuria; Renal and urinary disorders - Other (nephritis); Renal and urinary disorders - Other (tubulointerstitial nephritis)

**RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS** - Bronchospasm; Cough; Dyspnea; Hypoxia; Respiratory failure; Respiratory, thoracic and mediastinal disorders - Other (interstitial lung disease); Respiratory, thoracic and mediastinal disorders - Other (lung infiltration); Wheezing

**SKIN AND SUBCUTANEOUS TISSUE DISORDERS** - Alopecia; Dry skin; Hyperhidrosis; Pain of skin; Periorbital edema; Photosensitivity; Rash acneiform; Skin and subcutaneous tissue disorders - Other (rosacea); Toxic epidermal necrolysis

VASCULAR DISORDERS - Flushing; Hypertension; Hypotension; Vasculitis

**Note**: BMS-936558 (Nivolumab, MDX-1106) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

### Attachment 2: Revised ICD Section(s) for BMS-936558

Please note that the terminology for CTEP's suggested lay terms may change periodically. The condensed risk profile represents CAEPR risks in lay terms in a "patient-friendly" condensed format. It is provided as a guide and its use is completely optional; however, all risks listed in the current CAEPR must be reflected in the informed consent document. Expanding or condensing similar terms is acceptable. If you have chosen to reformat and/or reword the condensed risk profile in any way, please state, "The condensed risk profile has been modified" in the cover memo. <u>Please insert this condensed risk profile as the Table of Possible Side Effects for BMS-936558 in your ICD.</u>

### Risk Profile for BMS-936558 (CAEPR Version 2.1, December 11, 2015)

**NOTE:** The risk list section in the new NCI Consent Form Template (latest version: May 2013) will include the wording below:

"If you choose to take part in this study, there is a risk that:

- You may lose time at work or home and spend more time in the hospital or doctor's office than usual
- You may be asked sensitive or private questions which you normally do not discuss

The BMS-936558 used in this study may affect how different parts of your body work such as your liver, kidneys, heart, and blood. The study doctor will be testing your blood and will let you know if changes occur that may affect your health.

There is also a risk that you could have side effects from the study drug(s)/study approach.

Here are important points about side effects:

- The study doctors do not know who will or will not have side effects.
- Some side effects may go away soon, some may last a long time, or some may never go away.
- Some side effects may interfere with your ability to have children.
- Some side effects may be serious and may even result in death.

Here are important points about how you and the study doctor can make side effects less of a problem:

- Tell the study doctor if you notice or feel anything different so they can see if you are having a side effect.
- The study doctor may be able to treat some side effects.
- The study doctor may adjust the study drugs to try to reduce side effects.

The tables below show the most common and the most serious side effects that researchers know about. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you."

Please insert this condensed risk profile as the Table of Possible Side Effects for BMS-936558 in your ICD.

### HIGHLIGHTED LANGUAGE IS INSTRUCTIONAL TEXT FOR PRINCIPAL INVESTIGATOR—<u>NOT</u> TO BE INCLUDED IN THE INFORMED CONSENT DOCUMENT

### PLEASE NOTE THE FOLLOWING IN REVIEWING THESE RISKS:

BMS-936558 is an agent involved in the inhibition of "immune checkpoints," and may result in severe and possibly fatal immune-mediated side effects probably due to activation and growth of immune cells (T-cells). Immune-mediated side effects have been reported in patients receiving BMS-936558. In clinical trials, most immune-mediated side effects were reversible and managed by stopping BMS-936558 temporarily, administration of corticosteroids and supportive care.

#### COMMON, SOME MAY BE SERIOUS

In 100 people receiving BMS-936558, more than 20 and up to 100 may have:

• Tiredness

### **OCCASIONAL, SOME MAY BE SERIOUS**

In 100 people receiving BMS-936558, from 4 to 20 may have:

- Anemia which may require blood transfusion
- Swelling and redness of the eye which may cause blurred vision with a chance of blindness
- Pain
- Diarrhea, nausea
- Dry mouth
- Fever
- Swelling and redness at the site of the medication injection
- Bruising, bleeding
- Loss of appetite
- Fluid in the body
- Swelling of the body which may cause shortness of breath or headache, tiredness, and nerve pain
- Itching, rash, skin changes

#### RARE, AND SERIOUS

In 100 people receiving BMS-936558, 3 or fewer may have:

- Damage to organs which may cause weakness or shortness of breath and/or cough
- Visual disturbances
- Swelling and pain around the eyes which may lead to vision changes and difficulty closing eyes
- A tear or hole in the stomach that may require surgery
- Allergic reaction which may cause rash, low blood pressure, wheezing, shortness of breath, swelling of the face or throat
- Reaction during or following a drug infusion which may cause fever, chills, rash
- A condition with high blood sugar which leads to tiredness, frequent urination, excessive thirst, headache, nausea and vomiting, and can result in coma
- Muscle pain and/or weakness with dark red urine
- Confusion
- Abnormal movement of the facial muscles
- Weakness and paralysis
- Muscle weakness
- Numbness, tingling or pain of the arms and legs
- Kidney damage which may require dialysis

#### Attachment 3: Action Letter GENERAL INSTRUCTIONS

- 1. Distribute this Action Letter (and any accompanying CTEP-approved amendment) to all participating investigators and IRBs within 2 working days. For National Clinical Trials Network (NCTN) studies, please follow instructions from your Operations office. For sites participating in the NCI Central-IRB (CIRB) Initiative, CTEP has provided a copy of this Action Letter to the CIRB if the Action Letter affects any studies under CIRB review.
- 2. Accrual of new patients must be suspended until the IRB of record has reviewed and approved a CTEPapproved amendment created in response to this Action Letter. This amendment can undergo expedited approval at the discretion of the IRB Chair/designee as explained on the first page of the Action Letter.
- 3. **Patients currently on study may continue on study provided they are informed of the new and/or modified risk information.** This information should be communicated to patients already enrolled on study without waiting for IRB review/approval since this information represents a significant new finding(s) that developed during the course of the research that may relate to a patient's willingness to continue participation and per the Office for Human Research Protections, the regulations do not require IRB review and approval of statements describing such significant new findings before they are provided to already enrolled patients. Documentation of their informed consent should be carried out according to local IRB requirements.
- 4. Save a copy of the Action Letter (and any CTEP approval letter for an accompanying amendment) for your records.

# INSTRUCTIONS FOR PREPARATION OF AN AMENDMENT IN RESPONSE TO THIS Action Letter (if a CTEP-Approved amendment for your trial does <u>not</u> already accompany the Action Letter) General Instructions on Amendment Preparation:

- 1. Instructions regarding the due date for an amendment and where to send it are included on the first page of this Action Letter. The Clinical Trials Operations Offices may use the *Detailed Description of Required Protocol Changes* section in this Action Letter as the template for their Change Memo; however, it is not required if an Operations Office prefers to use its own Change Memo.
- 2. If any of the NCI-required changes are not applicable for your trial (i.e., already appear in your protocol), note this in your Change Memo.
- 3. The ICD changes include CTEP's suggested lay terms for each adverse event identified in the CAEPR. You may substitute different lay terms for each concept if appropriate for your patient population. If you have chosen to reformat and/or reword the risk profile in any way, please state, "The risk profile has been modified" in the cover memo.

#### **Specific Instructions on Amendment Preparation Based on Protocol Status:**

- A. Trials with a current CTEP status of "Active"
  - Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
  - The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's editorial and administrative update policy (http://ctep.cancer.gov/protocolDevelopment/docs/requestsubmissionpolicyfinal.pdf).
  - Suspend accrual of new patients until the IRB of record has reviewed and approved a CTEP-approved amendment created in response to this Action Letter.

- B. <u>Trials with a current status of "Approved", "Temporarily Closed to Accrual and Treatment", or</u> <u>"Temporarily Closed to Accrual</u>"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter in the next revised protocol draft submitted to CTEP. The protocol amendment must be submitted and approved by CTEP <u>before</u> the trial can be activated or re-opened.
  - You may include additional non-Action Letter related changes (any type) in your amendment response.
- C. Trials with a current CTEP status of "In Review"
  - The protocol and ICD must be revised as per the instructions outlined in the Action Letter. These changes must be included in the next revised protocol draft submitted to and approved by CTEP <u>before</u> the trial can be activated.
  - You may include additional non-Action Letter related changes (any type) in your revision response. Note the inclusion of non-Action Letter related changes may delay approval of your trial.

### D. Trials with a current CTEP status of "Closed to Accrual"

### If your trial is under a CTEP-held IND:

- Review and follow <u>ALL</u> the instructions outlined in this Action Letter.
- The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy (<u>http://ctep.cancer.gov/protocolDevelopment/amendments.htm</u>).

#### If your trial is NOT under a CTEP-held IND:

If Action Letter INCLUDES information that impacts patient care (e.g., new/adjusted dose modifications or special monitoring for patient population at risk) - An amendment is required. Review and follow <u>ALL</u> the instructions outlined in this Action Letter. The information provided in this memo outlines the <u>ONLY</u> changes that can be made in response to the Action Letter, except for changes that are consistent with CTEP's amendment request submission policy (http://ctep.cancer.gov/protocolDevelopment/amendments.htm).

# • If Action Letter does NOT INCLUDE information that impacts patient care - Amendment is typically NOT required.

- E. Trials with a current CTEP status of "Closed to Accrual and Treatment" or "Complete"
  - Amendment is not required. This information is being sent for informational purposes only. You may follow local IRB or Operations Office procedures and requirements.



March 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS	S
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: <u>cmiwa@swog.org</u> )	
Charles D. Blanke, MD CHAIR	RE:	<b>S1400</b> , "A Biomarker-Driven Master Protocol for Previously Treat Cell Lung Cancer (LUNG-MAP)". Study Chairs: V. Papadimitral Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara	kopoulou, F.R.
3181 SW Sam Jackson Pk Rd MC: L586		MEMORANDUM	
Portland, OR 97239		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D.	
503-494-5586 503-346-8038 FAX		Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>	
		IRB Review Requirements	
OPERATIONS OFFICE		() Full board review required. Reason:	
4201 Medical Dr		<ul> <li>Initial activation (should your institution choose to parti</li> <li>Increased risk to patient</li> </ul>	cipate)
Suite 250		( ) Complete study redesign	
San Antonio, TX 78229		<ul> <li>Addition of tissue banking requirements</li> <li>Study closure due to new risk information</li> </ul>	
210-614-8808		() Study closure due to new fisk information	
210-614-0006 FAX		() Expedited review allowed	
STATISTICAL CENTER		( $$ ) No review required	
1730 Minor Ave		MEMORANDUM	
Suite 1900 Seattle, WA 98101		e of this memorandum is to notify sites that a new Investigator's Bi r the following investigational agent.	rochure is now
206-652-2267 206-342-1616 FAX		Sub-Study: <b><u>S14001</u></b> Agent: Ipilimumab Version 19 02Mar20	016
1100 Fairview Ave North M3-C102	based on	andard procedures will be followed in updating the drug inform the most recent Investigator's brochure versions. Sites should 's brochures as required by site's IRB of record.	
PO Box 19024 Seattle, WA 98109	The Investigator's brochures are available through the CTSU website. Complete the CTSU Request for Clinical Brochure form located under LPO Documents – Pharmacy Forms.		
206-667-4623	Complete a	nd return to <u>ctsucontact@westat.com</u> .	
206-667-4408 FAX	This memo	randum serves to notify the NCI and the SWOG Statistical Center.	
swog.org	cc: PROTO Monica Yee Louise High Kara Ambe Mary Redm James Moo	lleyman Jieling Miao, M.S. r Scott Gettinger, M.D. an, Ph.D. Lyudmila Bazhenova, M.D.	





PO Box 19024

206-667-4623 206-667-4408 FAX

swog.org

Seattle, WA 98109

#### February 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIA	LS NETWORK (NCTN) MEMBERS		
GROUP CHAIR'S OFFICE	FROM:	SWOG Operations Office			
Charles D. Blanke, MD	RE:	IND Safety Reports for Ipilimumab (BMS-734016)			
CHAIR		MEMORANDUM			
3181 SW Sam Jackson Pk Rd MC: L586		IRB Review Requirements			
Portland, OR 97239		() Full board review required			
503-494-5586 503-346-8038 FAX		<ul> <li>( ) Initial activation (shot)</li> <li>( ) Increased risk to patie</li> <li>( ) Complete study redes</li> <li>( ) Addition of tissue ban</li> <li>( ) Study closure due to</li> </ul>	sign Iking requirements		
OPERATIONS OFFICE		· · ·			
4201 Medical Dr		( $$ ) Expedited review allowed			
Suite 250		( ) No review required	( ) No review required		
San Antonio, TX 78229					
210-614-8808		MEMO	DRANDUM		
210-614-0006 FAX	occurred	d in association with the drug Ipilin	been posted regarding adverse events that numab. Please access these safety reports via		
STATISTICAL CENTER		dy's abstract page or the same size or the same size or the same set of the sa	afety report link on the SWOG website		
1730 Minor Ave			<u>13:039</u> ).		
Suite 1900	These sa following	afety reports pertain to the	Reports:		
Seattle, WA 98101	lonowing	j study.	Reports.		
206-652-2267	<u>S1400</u>	<u>DI</u> Lung	Jan. 21, 2016 Mfr Rpt #BMS2015000505 Jan. 21, 2016 Mfr Rpt #BMS2015092636		
206-342-1616 FAX			Jan. 21, 2016 Mfr Rpt #BMS2015092954		
1100 Fairview Ave North M3-C102			at this time, but your consent form may be		
1010102			d in these reports if it is deemed necessary by		

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE	Lyudmila Bazhenova, M.D.
Mary Redman, Ph.D.	Jieling Miao, M.S.
James Moon, M.S.	Louise Highleyman
Shannon McDonough, M.S	Kara Amber
Scott Gettinger, M.D.	





Suite 1900

M3-C102

PO Box 19024

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Seattle, WA 98109

206-667-4408 FAX

206-342-1616 FAX

1100 Fairview Ave North

#### February 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
	FROM:	SWOG Operations Office
GROUP CHAIR'S OFFICE	RE:	IND Safety Reports for Nivolumab (BMS-936558)
Charles D. Blanke, MD CHAIR		MEMORANDUM
3181 SW Sam Jackson Pk Rd		IRB Review Requirements
MC: L586 Portland, OR 97239		<ul> <li>() Full board review required. Reason:</li> <li>() Initial activation (should your institution choose to participate)</li> </ul>
503-494-5586 503-346-8038 FAX		<ul> <li>( ) Increased risk to patient</li> <li>( ) Complete study redesign</li> <li>( ) Addition of tissue banking requirements</li> <li>( ) Study closure due to new risk information</li> </ul>
OPERATIONS OFFICE		( $$ ) Expedited review allowed
4201 Medical Dr Suite 250		( ) No review required
San Antonio, TX 78229		MEMORANDUM
210-614-8808		
210-614-0006 FAX	occurred	owing new safety reports have been posted regarding adverse events that in association with the drug Nivolumab. Please access these safety reports via dy's abstract page or the safety report link on the SWOG website
STATISTICAL CENTER		wog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:	Reports:	
<u><b>S1400I</b></u> Lung	Jan. 21, 2016	Mfr Rpt #BMS2015000505 Mfr Rpt #BMS2015092636 Mfr Rpt #BMS2015092954

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

	Miao, M.S. Highleyman mber
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#### February 1, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS		
GROUP CHAIR'S OFFICE	FROM:	M: SWOG Operations Office		
Charles D. Blanke, MD	RE:	IND Safety Reports for Ipilimumab (BMS-734016)		
CHAIR		MEMORANDUM		
3181 SW Sam Jackson Pk Rd MC: L586		IRB Review Requirements		
Portland, OR 97239		() Full board review required. Reason:		
503-494-5586 503-346-8038 FAX		<ul> <li>( ) Initial activation (should your institution choose to participate)</li> <li>( ) Increased risk to patient</li> <li>( ) Complete study redesign</li> <li>( ) Addition of tissue banking requirements</li> </ul>		
OPERATIONS OFFICE		() Study closure due to new risk information		
4201 Medical Dr		( $$ ) Expedited review allowed		
Suite 250		( ) No review required		
San Antonio, TX 78229				
210-614-8808		MEMORANDUM		
210-614-0006 FAX	occurred	owing new safety reports have been posted regarding adverse events that in association with the drug Ipilimumab. Please access these safety reports via		
STATISTICAL CENTER	the stu	dy's abstract page or the safety report link on the SWOG website wog.org/safetyreports/safetyreports.asp).		
1730 Minor Ave Suite 1900 Seattle, WA 98101		afety reports pertain to the		
	<u>S1400</u>	Jan. 15, 2016 Mfr Rpt #BMS2015036876		

206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024 Seattle, WA 98109

206-667-4623 206-667-4408 FAX

swog.org

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

Jan. 15, 2016 Mfr Rpt # BMS2015088798

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE	Lyudmila Bazhenova, M.D.
Mary Redman, Ph.D.	Jieling Miao, M.S.
James Moon, M.S.	Louise Highleyman
Shannon McDonough, M.S	Kara Amber
Scott Gettinger, M.D.	





February 1, 2016

	TO:	ALL NATIONAL CLINICAL TRIA	LS NETWORK (NCTN) MEMBERS
	FROM:	SWOG Operations Office	
GROUP CHAIR'S OFFICE	RE:	IND Safety Reports for Nivoluma	ab (BMS-936558)
Charles D. Blanke, MD CHAIR		MEMORANDUM	
3181 SW Sam Jackson Pk Rd		IRB Review Requirements	
MC: L586 Portland, OR 97239			uld your institution choose to participate)
503-494-5586 503-346-8038 FAX		<ul> <li>Increased risk to pati</li> <li>Complete study rede</li> <li>Addition of tissue bar</li> <li>Study closure due to</li> </ul>	sign hking requirements
OPERATIONS OFFICE		( $$ ) Expedited review allowed	
4201 Medical Dr Suite 250		() No review required	
San Antonio, TX 78229			
210-614-8808			DRANDUM
210-614-0006 FAX	The following new safety reports have been posted regarding adverse events that occurred in association with the drug Nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website		
STATISTICAL CENTER		swog.org/safetyreports/safetyrepor	
1730 Minor Ave		afety reports pertain to the	
Suite 1900	following	j study:	Reports:
Seattle, WA 98101	<u>S1400</u>	<u>DI</u> Lung	Jan. 12, 2016 Mfr Rpt #BMS2015080781
206-652-2267			Jan. 12, 2016 Mfr Rpt #BMS2015087836
206-342-1616 FAX			Jan. 15, 2016 Mfr Rpt #BMS2015036876 Jan. 15, 2016 Mfr Rpt #BMS2015088798
1100 Fairview Ave North	Protocol	amendments are not necessary	v at this time, but your consent form may be

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

206-667-4623 206-667-4408 FAX

swog.org

M3-C102

PO Box 19024

Seattle, WA 98109

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc:PROTOCOL & INFORMATION OFFICE<br/>Mary Redman, Ph.D.<br/>James Moon, M.S.<br/>Shannon McDonough, M.S.<br/>Scott Gettinger, M.D.Lyudmila Bazhenova, M.D.<br/>Jieling Miao, M.S.<br/>Louise Highleyman<br/>Kara Amber





January 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
	FROM:	SWOG Operations Office
GROUP CHAIR'S OFFICE	RE:	IND Safety Reports for Ipilimumab (BMS-734016)
Charles D. Blanke, MD		MEMORANDUM
CHAIR		IRB Review Requirements
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239 503-494-5586 503-346-8038 FAX		<ul> <li>() Full board review required. Reason:</li> <li>() Initial activation (should your institution choose to participate)</li> <li>() Increased risk to patient</li> <li>() Complete study redesign</li> <li>() Addition of tissue banking requirements</li> <li>() Study closure due to new risk information</li> </ul>
OPERATIONS OFFICE 4201 Medical Dr		<ul> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>
Suite 250 San Antonio, TX 78229		MEMORANDUM

The following new safety reports have been posted regarding adverse events that occurred in association with the drug Ipilimumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:	Reports:
<u><b>S1400I</b></u> Lung	Dec. 18, 2015Mfr Rpt #BMS2015064996Dec. 18, 2015Mfr Rpt #BMS2015078346Dec 18, 2015Mfr Rpt #BMS2015054840Dec 18, 2015Mfr Rpt #BMS2015082700Dec. 22, 2015Mfr Rpt #2009520Dec. 31, 2015Mfr Rpt #2054219

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Lyudmila Bazhenova, M.D. Mary Redman, Ph.D. Jieling Miao, M.S. James Moon, M.S. Louise Highleyman Shannon McDonough, M.S Kara Amber Scott Gettinger, M.D.



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Suite 1900

206-342-1616 FAX

1100 Fairview Ave North M3-C102 PO Box 19024

Seattle, WA 98109

206-667-4623 206-667-4408 FAX



January 15, 2016

	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS
	FROM:	SWOG Operations Office
GROUP CHAIR'S OFFICE	RE:	IND Safety Reports for Nivolumab (BMS-936558)
Charles D. Blanke, MD		MEMORANDUM
CHAIR		IRB Review Requirements
3181 SW Sam Jackson Pk Rd MC: L586 Portland, OR 97239 503-494-5586 503-346-8038 FAX		<ul> <li>() Full board review required. Reason:</li> <li>() Initial activation (should your institution choose to participate)</li> <li>() Increased risk to patient</li> <li>() Complete study redesign</li> <li>() Addition of tissue banking requirements</li> <li>() Study closure due to new risk information</li> </ul>
OPERATIONS OFFICE 4201 Medical Dr		<ul> <li>( √ ) Expedited review allowed</li> <li>( ) No review required</li> </ul>
Suite 250 San Antonio, TX 78229		MEMORANDUM
210-614-8808	The foll	owing new safety reports have been posted regarding adverse events that

The following new safety reports have been posted regarding adverse events that occurred in association with the drug Nivolumab. Please access these safety reports via the study's abstract page or the safety report link on the SWOG website (https://swog.org/safetyreports/safetyreports.asp).

These safety reports pertain to the following study:	Reports:	
<u><b>S1400I</b></u> Lung	Dec. 18, 2015Mfr Rpt #BMS2015064996Dec. 18, 2015Mfr Rpt #BMS2015078346Dec 18, 2015Mfr Rpt #BMS2015054840Dec 18, 2015Mfr Rpt #BMS2015082700Dec. 31, 2015Mfr Rpt #2054219	

Protocol amendments are not necessary at this time, but your consent form may be revised to include the information provided in these reports if it is deemed necessary by your institution. Please append this notice and these reports to your copy of the protocol and forward copies to your Institutional Review Board (IRB) as required by your local policies and procedures. Should any further information regarding these adverse events be made available, it will be forwarded to you.

This memorandum serves to notify the NCI and the SWOG Statistical Center.

cc: PROTOCOL & INFORMATION OFFICE Mary Redman, Ph.D. James Moon, M.S. Shannon McDonough, M.S. Scott Gettinger, M.D.



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Suite 1900

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PO Box 19024

206-667-4623

Seattle, WA 98109

206-667-4408 FAX



	Distribution E-mailed [				
	TO:	ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) MEMBERS			
GROUP CHAIR'S OFFICE	FROM:	Crystal Miwa, Protocol Coordinator (E-mail: cmiwa@swog.org)			
Charles D. Blanke, MD CHAIR	RE:	<b><u>S1400</u></b> , "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.			
3181 SW Sam Jackson Pk Rd MC: L586					
Portland, OR 97239		MEMORANDUM			
503-494-5586 503-346-8038 FAX		Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: <u>vpapadim@mdanderson.org</u>			
OPERATIONS OFFICE	IRB Review Requirements				
4201 Medical Dr Suite 250 San Antonio, TX 78229		<ul> <li>(√) Full board review required. Reason:</li> <li>(√) Initial sub-study activation</li> <li>() Increased risk to patient</li> <li>() Complete study redesign</li> </ul>			
210-614-8808		<ul> <li>Addition of tissue banking requirements</li> <li>Study closure due to new risk information</li> </ul>			
210-614-0006 FAX		() Expedited review allowed			
STATISTICAL CENTER		() No review required			
1730 Minor Ave					
Suite 1900	S1400I ACTIVATION				
Seattle, WA 98101					
206-652-2267	Effective 2:00 p.m. Pacific Time on December 18, 2015, the following sub-study will be open for patient accrual.				
206-342-1616 FAX	<b><u>S14001</u></b> : A Phase III Randomized Study of Nivolumab plus Ipilimumab versus Nivolumab for				
1100 Fairview Ave North M3-C102	Previously Treated Patients with Stage IV Squamous Cell Lung Cancer and No Matching Biomarker (LUNG-MAP SUB-STUDY)				
PO Box 19024	This memorandum serves to notify the NCI and the SWOG Statistical Center.				
Seattle, WA 98109	cc: PROTOCOL & INFORMATION OFFICE				
206-667-4623	Hossein R	orobaei D.O. Mary Redman, Ph.D. Genentech Inc.			

Mary Redman, Ph.D.

Shannon McDonough, M.S.

James Moon, M.S.

Monica Yee, B.A.

Louise Highleyman

MedImmune, LLC.

Hossein Borghaei, D.O.

Corey J. Langer, M.D.

Mark A. Socinski, M.D.

Martin J. Edelman, M.D.

Charu Aggarwal, M.D., M.P.H. Kara Amber

Ph.D.

Jeffrey A. Engelman, M.D.,

206-667-4408 FAX

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Genentech, Inc.

Foundation Medicine Inc.

Pfizer, Inc.

AstraZeneca Bristol Myers Squib

Clarient, Inc.



	Distribution Date: E-mail Date: CTEP Submission Date:		January 1, 2015 December 18, 2015 November 18, 2015		
GROUP CHAIR'S OFFICE	TO: ALL NATIONAL CLINICAL TRIALS NETWORK (NCTN) PARTICIPANTS				
Charles D. Blanke, MD	FROM: Crystal Miwa, Pro		tocol Coordinator (E-mail: cmiwa@swog.org)		
CHAIR	RE: <b>\$1400</b> , "A Biomarker-Driven Master Protocol for Previously Treated Squan				
3181 SW Sam Jackson Pk Rd MC: L586		Cell Lung Cancer ". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.			
Portland, OR 97239	REVISION #3				
503-494-5586 503-346-8038 FAX	Study Chair: Vassiliki A. Papadimitrakopoulou, M.D. Phone number: 713/792-6363 E-mail: vpapadim@mdanderson.org				
OPERATIONS OFFICE	IRB Review Requirements				
4201 Medical Dr Suite 250 San Antonio, TX 78229		pard review required. Reason: sub-study activation used risk to patient lete sub-study redesign			
210-614-8808 210-614-0006 FAX	<ul> <li>Addition of tissue banking requirements</li> <li>Study closure due to new risk information</li> </ul>				
	() Expedited review allowed				
STATISTICAL CENTER	() No review required				
1730 Minor Ave Suite 1900	PARTIAL PERMANENT CLOSURE (S1400B, S1400C, and S1400D, Arm 2-Docetaxel)				
Seattle, WA 98101					
206-652-2267 206-342-1616 FAX	SHOW STOPPER REVISION #3 CLOSURE (S1400A)				
1100 Fairview Ave North M3-C102	ACTIVATION (S1400I)				
PO Box 19024 Seattle, WA 98109	Partial Permanent Closure (S1400B, S1400C, S1400D, Arm 2-Docetaxel): Partial Permanent Closure (S1400B, S1400C, S1400D, Arm 2-Docetaxel): S1400B, S1400C, S1400D, Arm 2 - Docetaxel will be permanently closed to accrual from distribution of this notice.				
206-667-4623 206-667-4408 FAX	SWOG considers the Protocol and Model Consent Forms changes to represent a maje modification to <u>S1400</u> . Therefore, accrual of new patients will be suspended to <u>S1400 and</u> the sub-studies at the time of this notice until the revised Model Consent Forms,				

association with this revision, as approved by the site's IRB of record, **are implemented**, and proof of that IRB approval is received by CTSU. For sites using the CIRB as their IRB of record, the date of CIRB approval was received on 11/22/2015.

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<u>All Sites Must Complete the NEW Protocol Specific Training (PSR)</u> - A member must have reviewed the Updated S1400 Lung-MAP Training Slides presentation prior to registering patients under this revision. The updated slides review the new study design and contain an overview on the new sub-study, <u>S1400I</u>. The PSR can be satisfied by completing the training online and submitting the verification at: https://swog.org/members/Training/S1400Training.asp. Study centers can check the status of their registration packets by querying the Regulatory Support System (RSS) site registration status page of the CTSU member web site by entering credentials at https://www.ctsu.org

## **SHOW STOPPER REVISION #3:**

- Design Modification to a "hybrid" master protocol
  - The hybrid protocol allows for different designs across sub-studies depending on biomarker prevalence. 1) The current Phase II/III design and 2) a two stage approach, with stage 1 being a single arm study, followed by a randomized Phase III study as appropriate.
- Sub-studies <u>S1400B</u>, <u>S1400C</u>, <u>S1400D</u> have been modified to the second approach above.

Single arm Phase II studies (the docetaxel comparator arms are dropped) followed by randomized Phase III studies (of the investigational drug vs. SoC) where feasible. Modifications to the original design were deemed necessary. There is no information that suggests that treatment with docetaxel is less effective than the investigational targeted therapy. The decision to change these sub-studies to single arm studies was based on a practical concern regarding the need to quickly evaluate the investigational agent's utility in this setting. If the sub-study meets the threshold outlined in the protocol's statistical section, then it may proceed to a randomized Phase III design. The choice of the standard of care comparator arm will be made at the time the decision is made to move forward. Patients who were randomized to the docetaxel arms will continue to receive treatment with docetaxel as a medical intervention if deriving clinical benefit, if the patient agrees to continue treatment, and if the treating physician feels that it is in the patient's best interest to continue the treatment at this time. Patients will continue to be followed 'per protocol'. Patients who were randomized to the docetaxel arms on each of the sub-studies will have the opportunity to receive the investigational drug upon progression.

Investigators must notify their local Institutional Review Board (IRB) and must inform their patients of the information in the manner recommended by their local IRB (see attached Dear Investigator Letter). For patients currently registered to <u>S1400B</u>, <u>S1400C</u>, and <u>S1400D</u> and randomized to receive docetaxel, a "Patient Information Letter" is enclosed as a model for your use.

While the patient letter need not be provided verbatim, the information in the letter must be provided in a manner recommended by the local IRB. Documentation that this information was provided must be retained in the patient's research record on site and will be subject to verification at the time of a Quality Assurance audit. (See attached Dear Investigator Letter and Patient Letter for patients randomized to docetaxel on <u>S1400B</u>, <u>S1400C</u>, and <u>S1400D</u>)

For patients currently registered to <u>S1400B</u>, <u>S1400C</u>, and <u>S1400D</u> and randomized to receive the targeted therapy, institutions **must** update their local consent forms to include the changes to the Model Consent Form within 60 days of distribution of this notice. Patients who sign a consent form prior to local implementation of the consent form changes **must** be informed of the following changes. The manner by which this notification takes place is at the discretion of the local institution. At a minimum, the patient must be notified by the next visit and this notification process must be documented in the patient chart.

- Performance status (PS): In addition, following Revision #3, patients with Performance status (PS) of 2 will no longer be eligible to register to <u>S1400</u> or any of the sub-studies. PS 2 patients who wish to register, must do so before Revision #3 is activated.
- New Sub-study <u>S1400I</u>: Immunotherapy Non-match Study



**S1400A** (MEDI4736, non-match sub-study, now a single-arm Phase II study) will be permanently closed to accrual effective 12/18/2015. A new immunotherapy non-match study, **S1400I**, has been added to Revision #3. This is the combination of nivolumab (anti-PD1) + ipilimumab *vs.* nivolumab for nivolumab-naïve patients. This study will follow the first approach described above. **S1400A** [MEDI4736] and **S1400I** [Nivolumab vs. Nivolumab/Ipilimumab] have overlapping eligibility and cannot be opened at the same time. Therefore, **S1400A** will close to accrual and **S1400I** will be activated upon distribution of the revision to sites. Patents assigned to **S1400A**, but not registered will automatically be reassigned to **S1400I**. Sites will receive a notification from the SWOG Stats Center stating the patient has been reassigned.

Updated Risk Information for <u>S1400C</u> and <u>S1400D</u> CAEPRS
 As part of Good Clinical Practice, CTEP reviews each CAEPR list on an annual basis. The review includes literature search, CTEP-AERS submission review, and comparison to the latest agent Investigator's Brochure. After review of all the available data, CTEP has identified new and/or modified risk information associated with agent name. Patients currently receiving Palbociclib *or* AZD4547 **must** be informed of the changes. The manner by which this notification takes place is at the discretion of the local institution. At a minimum, the patient must be notified by the next visit and this notification process must be documented in the patient chart. **S1400C** [Palbociclib]

[Note: Sites should seek an updated investigator brochure as required by site's IRB of record.].

The revision has been organized by protocol edits for  $\underline{S1400}$  and each of the sub-studies, followed by the model consent form edits.

#### **General Throughout Protocol**

**S1400D** [AZD4547]

- 1. The Version Date of the <u>protocol</u> and the model consent forms have been updated.
- 2. Table of Contents: The page numbers have been updated for the following sections: <u>S1400</u>, <u>S1400A</u>, <u>S1400B</u>, <u>S1400C</u>, <u>S1400D</u>, <u>S1400E</u>.
- 3. Throughout the protocol, formatting, typographical errors, pagination, and cross-references have been corrected as needed.



## <u>S1400</u>

- 1. **Page 1, Title Page:** The title page has been updated as follows:
  - The **<u>S1400</u>** title has been revised from "PHASE II/III" to "A"
  - In the list of agents, an asterisk has been inserted after docetaxel. The accompanying footnote has been inserted to state that docetaxel is no longer a current study agent.
  - Nivolumab and Ipilimumab have been added to the Pharmaceutical Collaborators
  - Jieling Miao has been added to the list of biostatisticians.
- 2. **Page 2, Participants:** The Participants page has been update to include the NCIC CTG Participation.
- 3. Page 6, Schema: The Schema has been updated to reflect the new study design described at the beginning of this memo and the addition of the new sub-study, <u>S1400I</u>. The accompanying footnotes have been inserted to state that docetaxel is no longer a current agent and the new sub-study, <u>S1400I</u> will open to accrual and <u>S1400A</u> will close.
- 4. **Pages 7-9, Section 1.0, Objective:** This section has been replaced a modified "hybrid" design to be used for different sub-studies depending on the prevalence of the biomarker and other factors for a given sub-study. This section has two design options:
  - The protocol has retained a modified Phase II/III design as Design #1.
  - The new design option, Design #2 is a two-stage design: the 1st stage is a Single Arm Phase II design and the 2nd stage, is a randomized Phase III design. For studies employing Design #2, the sub-study will proceed to Phase III (2nd stage) if Phase II meets pre-specified clinical endpoints and it is feasible to accrue to a randomized Phase III study.
- 5. **Pages 9, Section 2.0, General Background:** This section has been updated as follows:
  - Choice of Disease Setting: Information on nivolumab approval has been added to the last paragraph.
  - Study Design: The first sentence has been updated to reflect the new study design.
  - Figure 1: The figure has been removed.
  - Inclusion of Women and Minorities: This section has been updated based on new accrual projections.
- 6. **Page 13, Section 3.0, Drug Information:** The drug information for both docetaxel and erlotinib has been removed. Specific drug information is included in Section 3 of each sub-study.
- 7. **Page 15, Section 5.1b, Screening/Pre-Screening Registration**: This eligibility criterion related to screening at progression or pre-screening prior to progression has been revised as follows:
  - "first-line" has been revised to "current" in the first sentence.
  - <u>Screening at progression</u>: The fourth sentence previously stated, "For patients who received platinum-based chemotherapy for Stage I-III disease progression must have occurred within one year from receiving that therapy." The sentence has been replaced with "For patients whose prior systemic therapy was for Stage I-III disease only (i.e. patient has not received any treatment for Stage IV disease), disease progression on platinum-based chemotherapy must have occurred within one year from the last date that patient received that therapy."
  - Pre-screening prior to progression: This section previously stated:



#### "Pre-Screening prior to progression on first-line treatment:

To be eligible for pre-screening, patients must have received at least one dose of Cycle 1 of a first-line platinum-based chemotherapy regimen for Stage IV disease. Patients are eligible upon receiving Cycle 1, Day 1 infusion. <u>Note:</u> **Patients will not receive their sub-study assignment until they progress and the** <u>S1400</u> Notice of Progression on First-Line Therapy is submitted."

This section has been revised to state:

"Pre-Screening prior to progression on current treatment:

To be eligible for pre-screening, current treatment must be for Stage IV disease and patient must have received at least one dose of the current regimen. Patients must have previously received or currently be receiving a platinumbased chemotherapy regimen. Patients on first-line platinumbased treatment are eligible upon receiving Cycle 1, Day 1 infusion. <u>Note:</u> Patients will not receive their sub-study assignment until they progress and the <u>S1400</u> Notice of Progression is submitted."

- 8. **Page 15, Section 5.1, Screening/Pre-Screening Registration**: The eligibility criterion related to prior docetaxel treatment (formerly Section 5.1c) has been removed. The subsequent sections have been re-numbered accordingly.
- 9. **Page 16, Section 5.1e, Screening/Pre-Screening Registration:** The Zubrod performance eligibility criterion has been revised from "≤ 2" to "0-1".
- 10. **Page 16, Section 5.1j, Screening/Pre-Screening Registration**: The following eligibility criteria has been added:

"Patients must be informed of the investigational nature of this study and must sign and give written informed consent in accordance with institutional and federal guidelines."

11. **Page 16, Section 5.2, Sub-Study Registration**: The instructions have been updated based upon the revised eligibility criteria and the following sentences have been added to the third paragraph:

"The common eligibility criteria are included here. For ease of reference, these common eligibility criteria have also been incorporated into Section 5.0 of each of the sub-studies."

12. **Page 17, Section 5.2b, Sub-Study Registration**: The eligibility criteria related to radiation therapy has been revised as follows:

"Patients must have progressed per RECIST 1.1 (see Section 10.1) following the most recent line of therapy."

This criterion previously read as follows: "Patients must not have received radiation therapy within 28 days prior to sub-study registration."

13. **Page 17, Section 5.2c, Sub-Study Registration**: The first sentence has been revised to include the statement, "therapy (systemic chemotherapy, immunotherapy)". The last sentence in the eligibility criterion related to systemic chemotherapy has been revised as follows:



"Localized palliative radiation therapy is allowed for symptom management, provided treatment is completed  $\geq$  14 days prior to sub-study registration. All other types of radiation must be completed  $\geq$  28 days prior to sub-study registration.

This sentence previously read as follows: "Localized palliative radiation therapy must be completed  $\geq$  14 days prior to sub-study registration."

14. **Page 18, Section 5.2f, Sub-Study Registration**: "at least 14 days" has been added to the eligibility criteria related recovery from surgery.



15. **Page 18, Section 5.2j, Sub-Study Registration:** The following footnotes have been added to the Creatinine Clearance criteria:

"The kilogram weight is the patient weight with an upper limit of 140% of the IBW. \*Actual lab serum creatinine value with a minimum of 0.8 mg/dl."

- 16. **Page 18, Section 5.2k, Sub-Study Registration**: The Zubrod performance eligibility criterion has been revised from "< 2" to "0-1".
- 17. **Page 19, Section 5.2t, Sub-Study Registration**: The following eligibility criteria has been added:

"Patients must be informed of the investigational nature of this study and must sign and give written informed consent in accordance with institutional and federal guidelines."

- 18. **Page 20, Section 6.0, Stratification Factors**: "For sub-studies employing Design #1," has been added to the first sentence.
- 19. **Page 20, Section 7.4, Follow Up Period:** "pre-screening/" and "registered/" have been added to the first sentence.
- 20. **Page 25, Section 10.6, Investigator-Assessed Progression-Free Survival:** "contact" has been replaced with "disease assessment" in the second sentence.
- 21. **Page 25, Section 10.7, Progression-Free Survival by Central Review:** "contact" has been replaced with "disease assessment" in the second sentence.
- 22. Page 25, Section 10.8, Duration of Response (DoR): This section has been added.
- 23. **Pages 25-35, Section 11.0, Statistical Considerations:** This section has been replaced to include the "hybrid" master protocol design options, sample size, and analysis plan as described at the beginning of this memo.
- 24. **Page 36, Section 13.2, Investigator/Site Registration**: The second paragraph has been updated to include new protocol specific requirements.
- 25. **Page 37, Section 13.4, Registration Procedures:** A sentence has been added to the end pf the paragraph to include information on patients re-registering.
- 26. **Page 40, Section 14.4, Data Submission Schedule:** Data submission for after submission of tissue but prior to registration on any sub-study and after receiving sub-study assignment but prior to registration on any sub-study have been added. The subsequent sections have been re-numbered accordingly.
- 27. **Page 40, Section 14.5b**: "/PRE-SCREENING" has been inserted in the follow up for patients not registered to any of the sub-studies
- 28. **Page 43, Section 15.3b, Specimen Collection**: The first paragraph has been revised to the following: "Specimens must be collected at Pre-screening or Screening. See Section 15 of each of the sub-studies for additional timepoints." In the first full paragraph, in the third sentence, the statement "and the serum tube should be kept at room temperature until processing can be performed" has been removed to clarify which tube should be collected. The timing of shipping in batches has been revised from 6 months to 3 months.



- 29. **Page 44, Section 15.4a, Radiology Review:** The last paragraph of this section has been revised to state that the central review of scans will not be triggered if the study will not be submitted for FDA approval. This paragraph previously stated that the review would be triggered should the study be stopped for efficacy based on objective response rate or investigator-assessed progression-free survival.
- 30. **Page 48, Section 17.0, Bibliography:** The following reference has been added as reference #8. The subsequent references have been re-numbered accordingly.

Brahmer J, Reckamp KL, Baas P, et al. N Nivolumab versus Docetaxel in Advanced Squamous-Cell Non-Small-Cell Lung Cancer. N Engl J Med. PMID [PMID: 26028407], 2015.

- 31. **Page 49, Section 18.0, Appendix**: The statement "versus Docetaxel" has been removed in Section 18.2b-d. A new Section 18.2f S1400I has been added.
- 32. **Page 50, Section 18.1a.2, Sub-study biomarker eligibility definitions:** <u>S1400A</u> has been removed and replaced with <u>S1400I</u> as the non-match study.
- 33. **Page 52, Section 18.1a.3, Biomarker Reporting:** The biomarker reporting for patients pre-screened during current treatment has been updated to remove the reference to first line therapy and replace it with current therapy. Additional information has been added to the second paragraph for patients not intending to register will be provided biomarker results within one day of receiving the form.
- 34. **Page 60**, **Section 18.1c**, **On Site Auditing**: The statement "any significant" has been revised to 'all" in the second sentence in the third paragraph.
- 35. **Page 65, Section 18.1d, Dose and Administration Schedule Overview:** <u>S14001</u> has been added to "Table 1.1 Sub-studies Open to Accrual". The footnote "a" has been added to Table 1.1 and reads as follows: "Arm 2-Docetaxel has been closed to accrual with Revision #3". <u>S1400A</u> has been moved to "Table 1.2 Sub-studies Closed to Accrual".
- 36. **Page 66, Section 18.1d, Protocol Instructions for Addition and Release ...:** "and Figure 1" has been removed throughout the section.



#### <u>S1400A</u>

- 1. **Pages 68-142**: A water mark has been added for the closure of the sub-study.
- 2. **Page 68, <u>Title Page</u>:** The title page has been updated as follows:
  - The <u>S1400</u> title has been revised as described above in the <u>S1400</u> section of this memo.
  - The S1400A title has been revised by removing "AND DOCETAXEL" and "(*Revised 4/22/15*)".
  - Jieling Miao has been added to the list of biostatisticians.
- 3. **Page 71, Schema**: The Schema has been updated to reflect the addition of Retreatment on MEDI4736.
- 4. **Page 73, Section 1.5, MEDI4736 Re-Treatment Objectives:** The MEDI4736 Re-Treatment Objectives have been added.
- 5. **Page 79, Section 2.0 Background:** Background on the Re-Treatment Rationale has been added.
- 6. **Page 82, Section 3.1e.2, How Supplied:** A sentence has been added to the end of the paragraph to inform the packaging configuration will change in the future.
- 7. **Page 86, Section 5.0, Eligibility Criteria:** The first paragraph of this section has been revised to reflect the addition of Section 5.3 ("Common Eligibility Criteria for all Sub-Studies") and Section 5.4 ("Step 2 Re-Treatment").
- 8. **Page 86, Section 5.1, Disease Related Criteria:** "Registration Step #1" has been added to the section title.
- 9. **Pages 86-87, Section 5.2, Clinical/Laboratory Criteria:** This section has been updated as follows:
  - Registration Step #1" has been added to the section title.
  - "[This criterion replaces common eligibility criteria in Section 5.3m and 5.3n]" has been added to Section 5.2g for clarification purposes.
  - The following criterion has been added to Section 5.2h. The subsequent section has been re-numbered accordingly.

"Patients must have a complete blood count (CBC), TSH, Free T3/T4, LDH, and Albumin performed within 28 days prior to sub-study registration to obtain baseline data for future toxicity assessments. If these tests are obtained within 14 days prior to sub-study registration as part of standard of care, tests need not be repeated. Additional timepoints are noted in Section 9.0, Study Calendar."

- Pages 87-90, <u>Section 5.3</u>, Registration Step #1 Common Eligibility Criteria for all Sub-Studies: This section, which is already included in Section 5.0 of the main study <u>S1400</u>, is now repeated here for convenience.
- 11. **Pages 90-93, <u>Section 5.4</u>, Registration Step #2 MEDI4736 RE-TREATMENT:** This section has been inserted for registered patients who progress on MEDI4736 to re-start treatment.
- 12. **Page 95, <u>Section 7.2c</u>**, **Arm 3: MEDI4736 Retreatment:** This section has been inserted to provide the treatment plan for patients who progress on MEDI4736 and register to Arm 3.



 Pages 95-96, Section 7.3, Criteria for Removal from Protocol Treatment: This section has been updated as follows: Section 7.3a: "to stay on" has been removed from the second sentence. Section 7.3b: This section has been updated to include the criteria of Arm 3, MEDI4736 re-treatment. Section 7.3f: "the sub-"has been replaced with "this".

- 14. **Page 96, Section 7.5, Follow-up Period:** "initial" has been added prior to "sub-study..."
- 15. **Pages 96-109, Section 8.3, Dose Modifications for MEDI4736:** This section has been updated as follows:
  - Immune-Related Adverse Events: A note for toxicities not noted below has been added. Grade 3 has been updated to include instructions for asymptomatic amylase or lipase levels. The toxicity management guidelines have been revised to suggest more aggressive management.
  - Pneumonitis: Grade 2 has been updated to state if toxicity worsens to treat as Grade 3 or 4. Grade 2 and 3 toxicity management guidelines have been revised to suggest more aggressive management.
  - Diarrhea/Enterocolitis: All toxicity management guidelines have been revised to include additional guidelines.
  - Hepatitis (Elevated LFTs): Grade 2 and Grade 3 Hepatitis toxicity management guidelines have been revised to suggest more aggressive management.
  - Nephritis or Renal Dysfunction: This section has been added.
  - Rash (excluding Bullous skin formations): The following statement has been added to the any grade toxicity management:
     "IF THERE IS ANY BULLOUS FORMATION, THE STUDY PHYSICIAN SHOULD BE CONTACTED AND STUDY DRUG DISCONTINUED.\*\*" All toxicity management guidelines have been revised to suggest more aggressive management.
  - Endocrinopathy: Grade 2 and Grade 3 dose modifications and toxicity management guidelines have been revised to suggest more aggressive management. Grade 4 has been removed.
  - Immune Mediated Neurotoxicity: Grade 2, and Grade 3/4 toxicity management guidelines have been revised to suggest more aggressive management.
  - Immune-Mediated Peripheral Neuromotor Syndromes: All Grades have been revised to suggest start IVIG for patients requiring steroid treatment.
- 16. **Page 109, Section 8.4, Dose Modifications for Docetaxel**: The following statement has been inserted "<u>(NOTE: Arm 2 Closed to accrual per Revision #2, Version Date 4/22/15)</u>".
- 17. **Pages 113-114, Section 9.1, Arm 1 MEDI4736:** The following footnotes have been updated:
  - The vital signs procedure has been added to Cycle 1, week 1 to clarify vitals should be performed at pre-study and pre-infusion, during, and post-infusion.
  - The € footnote has been added to the laboratory tests and notes these tests should be performed within 14 days prior to treatment.
  - In the  $\Omega$  footnote, "while on treatment" has been removed.
  - In the β footnote, at the end of the first sentence, the phrase "unless otherwise noted" has been inserted.
  - In the and √ footnotes, at the end for the first sentence, the sentence "Patients who complete a year of MEDI4736 may be eligible for re-treatment following progression." has been added.



- 18. **Pages 115-116, Section 9.2, Arm 2 Docetaxel:** A watermark has been added to the section stating "DOCETAXEL ARM CLOSED".
- 19. **Pages 117-118, Section 9.3, Arm 3 MED4736 Retreatment:** This calendar has been inserted for patients who are re-treated after progression on MEDI4736.
- 20. **Page 122, Section 13.1, Registration Timing:** A timeframe for beginning treatment after registration Step 2 (Re-Treatment) has been inserted.
- 21. **Pages 123-125, Section 14.4, Data Submission Overview**: The section has been revised as follows:
  - Section 14.4a: The statement "SUB-STUDY" has been removed and "STEP 1" has been added.
  - Section 14.4b: inserted to provide information on forms to be submitted after registration Step 2 (Re- Registration Treatment). The subsequent section has been re-numbered accordingly.
  - Sections 14.4d and 14.4e: A reference to Arm 3 Re-treatment has been inserted.
  - Section 14.4f: The statement "OR RE-TREATMENT", "<u>**S1400A**</u> Laboratory Values Form", and "(not required during Re- Registration Treatment)" have been inserted.
  - Section 14.4g: The statement "FROM <u>S1400A</u> STEP 1 REGISTRATION" has been inserted.
- 22. **Pages 125-126, Section 15.2a.1, Peripheral Blood:** The first bullet regarding peripheral blood has been revised for clarification purposes. After the "Weeks 3, 7, 9", a sentence has been inserted to say that patients are not required to continue submitting specimens after they go off protocol treatment. In the first full paragraph, in the third sentence, the statement "and the serum tube should be kept at room temperature until processing can be performed" has been removed to clarify which tube should be collected.
- 23. **Page 126, Section 15.2a.2, Whole Blood:** Arm 3, MEDI4736 Re-treatment has been added to this section.
- 24. **Page 126, Section 15.2a.3, New Biopsy...:** This section has been reworded for clarification purposes.
- 25. **Page 127, Section 15.2b, Specimen Submission:** The timing of shipping in batches has been revised from 6 months to 3 months.
- 26. **Page 127, Section 15.4a, Radiology Review:** The last paragraph of this section has been revised to state that the central review of scans will not be triggered if the study will not be submitted for FDA approval. This paragraph previously stated that the review would be triggered should the study be stopped for efficacy based on objective response rate or investigator-assessed progression-free survival.
- 27. **Pages 137-138, Section 17.0, Bibliography:** Additional references (#36-#47) have been inserted to the end of this section.
- 28. **Page 139, Section 18.1, MEDI4736 Background on AESIs**: This section has been replaced with updated background information on AEs of special interest.
- 29. **Page 142, Section 18.2a, Specimen Flow Diagram**: "on an experimental arm" has been removed and "initially" has been inserted to footnote "b" for clarification purposes.



## S1400B

- 1. **Page 143, Title Page:** The **<u>S1400B</u> title page has been updated as follows:** 
  - Section 18.2b: "versus Docetaxel" has been removed
  - The <u>S1400</u> title has been revised as described above in the <u>S1400</u> section of this memo.
  - The <u>S1400B</u> title has been updated to reflect the new design modifications described at the beginning of this memo.
  - In the list of agents, GDC-0032 is now listed as GDC-0032, with taselisib in parentheses.
  - In the list of agents, an asterisk has been inserted after docetaxel. The accompanying footnote has been inserted to state that docetaxel is no longer a current study agent.
  - Jieling Miao has been added to the list of biostatisticians.
- 2. **Page 146, Schema:** A schema has been inserted to reflect the new study design described at the beginning of this memo. The "Old Schema" for patients registered prior to Revision #3 has been revised to show that after progression, patients on Arm 2 (docetaxel) may re-register to GDC-0032. An accompanying footnote has been inserted to provide a reference to the definition of progression.
- 3. **Page 147, Section 1.0, Objective:** This section has been replaced to include the "hybrid" master protocol design option #2 as follows:
  - Section 1.0: The first sentence of this section has been inserted to explain that S1400B will use Design #2 (sequential Phase II to Phase III) as described in <u>S1400</u>.
  - Section 1.2.a: The Phase II primary objective has changed from comparing investigator-assessed progression-free survival between GDC-0032and docetaxel to evaluating objective response rate for GDC-0032.
  - Section 1.2.b: The Phase III primary objectives have been deleted. If the study moves on to include a randomized Phase III trial, objectives will be added at that time.
  - Section 1.3: The following sentence has been deleted from the beginning of this section: "Secondary objectives will be evaluated in both the subset of patients defined to be PI3K GNE-positive and in the entire S1400B (PI3K FMI positive) study population."
  - Section 1.3.a: The Phase II secondary objectives have been revised. Instead of comparing response rates between GDC-0032and docetaxel, the study will evaluate investigator-assessed progression-free survival and overall survival. The objective pertaining to toxicities has been revised to remove the docetaxel comparison.
  - Section 1.3b: The Phase III secondary objectives have been deleted. If the study moves on to include a randomized Phase III trial, objectives will be added at that time.
  - Section 1.0: The section formerly numbered Section 1.4 ("Treatment Arm Randomization Acceptance Rate Objective") has been deleted since patients will no longer be randomized.
  - Section 1.4.a: This section has been revised to delete reference to prognostic biomarkers and to specify that the biomarkers of interest would pertain to GDC-0032.



- 4. **Page 149, Section 3.0, Drug Information**: The first sentence regarding docetaxel has been removed.
- 5. **Page 155, Section 5.0, Eligibility Criteria:** The first paragraph of this section has been revised to reflect the addition of Section 5.3 ("Common Eligibility Criteria for all Sub-Studies") and Section 5.4 ("Step 2 Re-Registration ").
- 6. **Page 155, Section 5.2.b:** This section has been revised for clarification purposes. Specifically, "Type 1 or 2 diabetes which" has been replaced by "Type I or II diabetes that".
- 8. **Pages 156-159, Section 5.3, Common Eligibility Criteria for all Sub-Studies:** This section, which is already included in Section 5.0 of the main study <u>S1400</u>, is now repeated here for convenience
- 9. **Pages 159-161, Section 5.4, Step 2 Re-Registration:** This section has been inserted to re-register patients who progressed on docetaxel to treatment with taselisib.
- 10. **Page 162, Section 6.0, Stratification Factors:** This section has been updated as follows:
  - Section 6.0: The first paragraph has been inserted to state that patients will no longer be randomized or stratified.
- 11. **Page 162, Section 7.2, Treatment:** The first paragraph has been inserted to state that patients will no longer randomized. Arm 3: Treatment with Taselisib has been added to define the treatment schedule.
- 12. **Page 163, Section 7.2c, Arm 3 Re-Registration:** This section has been inserted to provide the treatment plan for patients who progress on docetaxel and cross over to taselisib.
- 13. **Page 164, Section 7.7, Follow-Up Period**: This section has been updated to include the follow-up period for patients registered to Step 2 (Re-Registration).
- 14. **Page 165, Section 7.5b, Criteria for Removal from Protocol Treatment:** This section has been inserted to state that patients who progress on docetaxel and then re-register to taselisib and then progress must be removed from protocol treatment. The subsequent section has been re-numbered accordingly.
- 15. **Pages 169-170, Section 8.3d, Table 4 Diarrhea or Colitis:** The dose modification and management guidelines for diarrhea and colitis have been revised to suggest more aggressive management, including infectious workups for Grade 1 and colonoscopies for Grade 2.
- 16. **Page 172, Section 8.4, Dose Modifications Docetaxel:** The following statement has been inserted "<u>(Closed to accrual per Revision #3)".</u>
- 17. **Page 176-177, Section 9.1, Arm 1 GDC-0032:** The calendar has been revised as follows:
  - EKG line has been deleted as it is no longer required.
  - The € footnote has been added to the laboratory tests and notes these tests should be performed within 14 days prior to treatment.
  - In the Ω footnote, "while on treatment" has been removed.
  - In the β footnote, at the end of the first sentence, the phrase "unless otherwise noted" has been inserted.



- 18. **Pages 178-179, Section 9.2, Arm 2 Docetaxel:** A watermark has been added to the section stating "DOCETAXEL ARM CLOSED".
- Pages 180-181, <u>Section 9.3</u>, Arm 3 Re-Registration GDC-0032: This calendar has been inserted for patients who cross over to taselisib after progressing on docetaxel.
- 20. **Page 182, <u>Section 11.0</u>**, **Statistical Considerations:** The first sentence has been inserted to state that this study will use Design #2 as described in the main study <u>S1400</u>.
- 21. **Page 182,** <u>Section 11.1</u>, **Primary Objective and Biomarker Prevalence**: In the last paragraph of this section, in the first sentence, the primary objective has been changed to remove the docetaxel comparison.
- 22. **Page 183,** <u>Section 11.2</u>, Sample Size with Power Justification: The first paragraph of this section has been inserted to state that this study will employ the Phase II design described in the main study <u>S1400</u>. As a result, the majority of the rest of Section 11.2 is no longer necessary and has been deleted.
- 23. **Page 183, <u>Section 13.1</u>, Registration Timing:** A timeframe for beginning treatment after registration Step 2 (Re-Registration) has been inserted.
- 24. **Pages 184-185, <u>Section 14.4</u>, Data Submission Overview**: The section has been revised as follows:
  - Section 14.4b, has been inserted to provide information on forms to be submitted after registration Step 2 (Re-Registration). The subsequent section has been renumbered accordingly.
  - Section 14.4d and 14.4f, a reference to the re-registration arm has been inserted.
  - Section 14.4.f, the **<u>S1400B</u>** Laboratory Values From has been inserted.
  - Section 14.4g: has been revised to clarify that time is measured from the time of registration.
- 25. Pages 186-187, <u>Section 15.2a.1</u>, Peripheral Blood: This section has been revised as follows:
  - The first bullet regarding peripheral blood has been revised for clarification purposes.
  - After the "Weeks 4, 7, 10", a sentence has been inserted to say that patients are not required to continue submitting specimens after they go off protocol treatment.
  - In the first full paragraph, in the third sentence, the statement "and the serum tube should be kept at room temperature until processing can be performed" has been removed to clarify which tube should be collected.
- 26. **Page 187, Section 15.2a.2, New Biopsy...:** This section has been reworded for clarification purposes.
- 27. **Page 187, Section 15.2b, Specimen Submission:** The timing of shipping in batches has been revised from 6 months to 3 months.
- 28. **Page 188, Section 15.3a, Radiology Review:** The last paragraph of this section has been revised to state that the central review of scans will not be triggered if the study will not be submitted for FDA approval. This paragraph previously stated that the review would be triggered should the study be stopped for efficacy based on objective response rate or investigator-assessed progression-free survival.



- 29. **Page 190, Section 16.1.e, Expedited reporting for investigational agents:** References to Arm 3 (Re-Registration) have been inserted since this arm includes GDC-0032.
- 30. **Page 192, Section 16.1.f.2, AESIs**: Grade 4 hyperglycemia has been revised to Grade  $\geq$  3 symptomatic hyperglycemia. Grade >= 2 diarrhea and Grade >= 3 stomatitis are now adverse events of special interest.



## S1400C

- 1. **Page 197, Title Page**: The **<u>S1400C</u> title page has been updated as follows:** 
  - Section 18.2c: "versus Docetaxel" has been removed
  - The <u>S1400</u> title has been revised as described above in the <u>S1400</u> section of this memo.
  - The <u>**S1400C</u>** title has been updated to reflect the new design modifications described at the beginning of this memo.</u>
  - In the list of agents, an asterisk has been inserted after docetaxel. The accompanying footnote has been inserted to state that docetaxel is no longer a current study agent.
  - Jieling Miao has been added to the list of biostatisticians.
- 2. **Page 200, Schema:** A schema has been inserted to reflect the new study design described at the beginning of this memo. The "Old Schema" for patients registered prior to Revision #3 has been revised to show that after progression, patients on Arm 2 (docetaxel) may re-register to palbociclib. An accompanying footnote has been inserted to provide a reference to the definition of progression.
- 3. **Page 201, Section 1.0, Objective:** This section has been replaced to include the "hybrid" master protocol design option #2 as follows:
  - Page X, Section 1.0: The first sentence of this section has been inserted to explain that <u>S1400C</u> will use Design #2 (sequential Phase II to Phase III) as described in <u>S1400</u>.
  - Section 1.1.a: The Phase II primary objective has changed from comparing investigator-assessed progression-free survival between palbociclib and docetaxel to evaluating objective response rate for palbociclib.
  - Section 1.1.b: The Phase III primary objectives have been deleted. If the study moves on to include a randomized Phase III trial, objectives will be added at that time.
  - Section 1.2: The following sentence has been deleted from the beginning of this section: "The secondary objectives of the Phase II component of <u>S1400C</u> are:" The Phase II Secondary Objectives have been revised. Instead of comparing response rates between palbociclib and docetaxel, the study will evaluate investigator-assessed progression-free survival and overall survival. The objective pertaining to toxicities has been revised to remove the docetaxel comparison. In addition, an objective to estimate the duration of response among cell cycle gene alteration positive patients has been inserted.
  - Section 1.2: The Phase III secondary objectives have been deleted. If the study moves on to include a randomized Phase III trial, objectives will be added at that time.
  - Section 1.0: The section formerly numbered Section 1.3 ("Treatment Arm Randomization Acceptance Rate Objective") has been deleted since patients will no longer be randomized.
  - Section 1.4.a: This section has been revised to delete reference to prognostic biomarkers and to specify that the biomarkers of interest would pertain to palbociclib.
- 4. **Page 203, Section 3.0, Drug Information**: The first sentence regarding docetaxel has been removed.



- 5. Pages 205-209, Section 3.1c.1, Palbociclib (PD-0332991) (NSC 772256) (IND-119672): The palbociclib adverse effects section has been replace with a CTEP modified risk information Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.1, May 13, 2015. The section has been updated as follows:
  - Added New Risk:
    - <u>Less Likely</u>: Dry eye; Mucositis oral; Watering eyes
    - Also Reported on PD-0332991 Trials But With the Relationship to PD-0332991 Still Undetermined: Acute kidney injury; Alanine aminotransferase increased; Alkaline phosphatase increased; Allergic reaction; Aspartate aminotransferase increased; Atrial fibrillation; Blood bilirubin increased; Cardiac arrest; Colitis; CPK increased; Creatinine increased; Dehydration; Dysphagia; Esophageal stenosis; Fall; Fracture; Gastric hemorrhage; GGT increased; Hepatobiliary disorders - Other (bile duct obstruction); Hepatobiliary disorders - Other (jaundice); Hyperkalemia; Hypermagnesemia; Hypertension; Hypoalbuminemia; Hypocalcemia; INR increased; Lower gastrointestinal hemorrhage; Malaise; Musculoskeletal and connective tissue disorder - Other (osteonecrosis); Non-cardiac chest pain; Respiratory, thoracic and mediastinal disorders - Other (alveolitis allergic); Sinus bradycardia; Small intestinal obstruction; Supraventricular tachycardia; Thromboembolic event; Treatment related secondary malignancy
  - Increase in Risk Attribution:
    - <u>Changed to Less Likely from Reported But Undetermined</u>: Blurred vision; Dysgeusia; Hyperglycemia; Infection; Nervous system disorders – Other (peripheral neuropathy)
    - <u>Changed to Rare but Serious from Reported But Undetermined</u>: Febrile neutropenia
  - Decrease in Risk Attribution:
    - Changed to Less Likely from Likely: Diarrhea
    - <u>Changed to Reported But Undetermined from Less Likely</u>: Abdominal pain; Chills; Cough; Dry mouth; Generalized muscle weakness; Headache; Musculoskeletal and connective tissue disorder - Other (muscle spasms)
  - Provided Further Clarification:
    - All infections are now reported as Infection, and the following footnote #2 was added: Infection may include any of the 75 infection sites under the INFECTIONS AND INFESTATIONS SOC.
    - Peripheral motor neuropathy and peripheral sensory neuropathy are now reported as Nervous system disorders Other (peripheral neuropathy, and the following footnote #3 was added: Peripheral neuropathy includes both peripheral motor neuropathy and peripheral sensory neuropathy under the NERVOUS SYSTEM DISORDERS SOC.
    - Rash maculo-papular is now reported as Skin and subcutaneous tissue disorders Other (rash), and the following footnote #4 was added: Rash includes rash, rash maculo-papular, erythema, erythematous rash, generalized rash, exanthema, allergic dermatitis, and palmar-plantar erythrodysesthesia syndrome.
    - General disorders and administration site conditions Other (failure to thrive) is now reported as Metabolism and nutrition disorders Other (failure to thrive).
    - Respiratory, thoracic and mediastinal disorders Other (oropharyngeal pain) is now reported as Gastrointestinal disorders Other (oropharyngeal pain).
  - Modified Specific Protocol Exceptions to Expedited Reporting (SPEER) requirements:
    - Added: Anorexia



- Deleted Risk:
  - Also Reported on PD-0332991 Trials But With the Relationship to PD-0332991 Still Undetermined: Musculoskeletal and connective tissue disorder - Other (hip arthroplasty)
- 6. **Page 211, Section 3.1e.2, How Supplied**: The following sentence has been added to the end of this section: "In the future, supplies will transition to commercially labeled bottles that contain 21 capsules each."
- 7. **Page 214, Section 5.0, Eligibility Criteria:** The first paragraph of this section has been revised to reflect the addition of Section 5.3 ("Common Eligibility Criteria for all Sub-Studies") and Section 5.4 ("Step 2 Re-Registration ").
- 8. **Page 214, Section 5.2.b, Clinical/Laboratory Criteria:** This section has been revised for clarification purposes. Specifically, a URL has been provided to list the drugs known to prolong the QT interval.
- 9. **Page 215, Section 5.2d, Clinical/Laboratory Criteria:** This criterion has been removed and combined with Section 5.2e. The subsequent sections have been renumbered accordingly.
- 10. **Pages 215-218, Section 5.3, Common Eligibility Criteria for all Sub-Studies:** This section, which is already included in Section 5.0 of the main study <u>S1400</u>, is now repeated here for convenience
- 11. **Pages 218-221, Section 5.4, Step 2 Re-Registration:** This section has been inserted for to register patients who progress on docetaxel to re-register to treatment with palbociclib.
- 12. **Page 222, Section 6.0, Stratification Factors:** This section has been updated as follows:
  - Section 6.0: The first paragraph has been inserted to state that patients will no longer be randomized or stratified.
- 13. **Page 222, Section 7.2, Treatment:** The first paragraph has been inserted to state that patients will no longer randomized. Arm 3: Re-Registration Treatment with palbociclib has been added to define the treatment schedule.
- 14. **Page 223, Section 7.2a, Arm 1 Palbociclib, Prohibited Medications**: A URL has been inserted at the end of the third paragraph to provide a list the drugs known to prolong the QT interval.
- 15. **Pages 225-227, Section 7.2c, Arm 3 Re-Registration:** This section has been inserted to provide the treatment plan for patients who progress on docetaxel and to palbociclib.
- 16. **Page 228, Section 7.4b, Criteria for Removal from Protocol Treatment:** This section has been inserted to state that patients who progress on docetaxel and then re-register to palbociclib and then progress must be removed from protocol treatment. The subsequent section has been re-numbered accordingly.
- 17. **Page 228, Section 7.6, Follow-Up Period**: This section has been updated to include the follow-up period for patients registered to Step 2 (Re-Registration).
- 18. **Page 231, Section 8.3, Dose Modifications Palbociclib**: The dose modifications for Hepatic Dysfunction Grade 2 have been clarified.



- 19. **Page 231, Section 8.4, Dose Modifications Docetaxel:** The following statement has been inserted "<u>(Closed to accrual per Revision #3)".</u>
- 20. **Page 236, Section 9.1, Arm 1 Palbociclib:** The calendar has been revised as follows:
  - In the  $\Omega$  footnote, "while on treatment" has been removed.
  - The € footnote has been added to the laboratory tests and notes these tests should be performed within 14 days prior to treatment.
  - In the β footnote, at the end of the first sentence, the phrase "unless otherwise noted" has been inserted.
- 21. **Pages 237-238, Section 9.2, Arm 2 Docetaxel:** A watermark has been added to the section stating "DOCETAXEL ARM CLOSED".
- 22. Pages 239-240, Section 9.3, Arm 3 Re-Registration Palbociclib: This calendar has been inserted for patients who cross over to palbociclib after progressing on docetaxel.
- 23. **Page 241, Section 11.0, Statistical Considerations:** The first sentence has been inserted to state that this study will use Design #2 as described in the main study <u>S1400</u>.
- 24. **Page 241, Section 11.1, Primary Objective and Biomarker Prevalence**: In the first paragraph of this section, in the first sentence, the primary objective has been changed to remove the docetaxel comparison.
- 25. **Page 241, Section 11.2, Sample Size with Power Justification**: The first paragraph of this section has been inserted to state that this study will employ the Phase II design described in the main study <u>S1400</u>. As a result, the majority of the rest of Section 11.2 is no longer necessary and has been deleted.
- 26. **Page 242, Section 13.1, Registration Timing:** A timeframe for beginning treatment after registration Step 2 (Re-Registration) has been inserted.
- 27. **Pages 243-244, Section 14.4, Data Submission Overview**: The section has been revised as follows:
  - Section 14.4b, has been inserted to provide information on forms to be submitted after registration Step 2 (Re-Registration). The subsequent section has been renumbered accordingly.
  - Section 14.4d and 14.4f, a reference to the Re-Registration arm has been inserted.
  - Section 14.4.f, the **<u>S1400C</u>** Laboratory Values From has been inserted.
  - Section 14.4g: has been revised to clarify that time is measured from the time of registration.
- 28. **Pages 245-246, Section 15.2a.1, Peripheral Blood:** This section has been revised as follows:
  - The first bullet regarding peripheral blood has been revised for clarification purposes.
  - Arm 3 Palbociclib peripheral blood timepoints have inserted.
  - After Arm 1 Week 5, 7, 9, a sentence has been inserted to say that patients are not required to continue submitting specimens after they go off protocol treatment.
  - In the first full paragraph, in the third sentence, the statement "and the serum tube should be kept at room temperature until processing can be performed" has been removed to clarify which tube should be collected.



- 29. **Page 246, Section 15.2a.2, New Biopsy...:** This section has been reworded for clarification purposes.
- 30. **Page 246, Section 15.2b, Specimen Submission:** The timing of shipping in batches has been revised from 6 months to 3 months.
- 31. **Page 247, Section 15.3a, Radiology Review:** The last paragraph of this section has been revised to state that the central review of scans will not be triggered if the study will not be submitted for FDA approval. This paragraph previously stated that the review would be triggered should the study be stopped for efficacy based on objective response rate or investigator-assessed progression-free survival.
- 32. **Page 249, Section 16.1.e, Expedited reporting for investigational agents**: References to Arm 3 (Re-Registration) have been inserted since this arm includes palbociclib.



## <u>S1400D</u>

- 1. Page 255, Title Page: The <u>S1400D</u> title page has been updated as follows:
  - Section 18.2d: "versus Docetaxel" has been removed
  - The <u>S1400</u> title has been revised as described above in the <u>S1400</u> section of this memo.
  - The <u>**S1400D</u>** title has been updated to reflect the new design modifications described at the beginning of this memo.</u>
  - In the list of agents, an asterisk has been inserted after docetaxel. The accompanying footnote has been inserted to state that docetaxel is no longer a current study agent.
  - Jieling Miao has been added to the list of biostatisticians.
- 2. **Page 258, Schema:** A schema has been inserted to reflect the new study design described at the beginning of this memo. The "Old Schema" for patients registered prior to Revision #3 has been revised to show that after progression, patients on Arm 2 (docetaxel) may re-register to AZD4736. An accompanying footnote has been inserted to provide a reference to the definition of progression.
- 3. **Pages 259, Section 1.0, Objective:** This section has been replaced to include the "hybrid" master protocol design option #2 as follows:
  - Page X, Section 1.0: The first sentence of this section has been inserted to explain that <u>S1400D</u> will use Design #2 (sequential Phase II to Phase III) as described in <u>S1400</u>.
  - Section 1.1.a: The Phase II primary objective has changed from comparing investigator-assessed progression-free survival between AZD4547 and docetaxel to evaluating objective response rate for AZD4547.
  - Section 1.1.b: The Phase III primary objectives have been deleted. If the study moves on to include a randomized Phase III trial, objectives will be added at that time.
  - Section 1.2: The following sentence has been deleted from the beginning of this section: "The secondary objectives of the Phase II component of <u>S1400D</u> are:". The Phase II Secondary Objectives have been revised. Instead of comparing response rates between AZD4547 and docetaxel, the study will evaluate investigator-assessed progression-free survival and overall survival. The objective pertaining to toxicities has been revised to remove the docetaxel comparison. In addition, an objective to estimate the duration of response among FGFR positive patients has been inserted.
  - Section 1.2: The Phase III secondary objectives have been deleted. If the study moves on to include a randomized Phase III trial, objectives will be added at that time.
  - Section 1.0: The section formerly numbered Section 1.3 ("Treatment Arm Randomization Acceptance Rate Objective") has been deleted since patients will no longer be randomized.
  - Section 1.4.a: This section has been revised to delete reference to prognostic biomarkers and to specify that the biomarkers of interest would pertain to AZD4547.
- 4. **Page 262, Section 3.0, Drug Information**: The first sentence regarding docetaxel has been removed.



- 5. **Pages 263-266, Section 3.1c.1, AZD4547 (NSC 765338) (IND-119672):** The AZD4547 adverse effects section has been replace with a CTEP modified risk information Comprehensive Adverse Events and Potential Risks (CAEPR) Version 2.0, March 25, 2015. The section has been updated as follows:
  - Added New Risk: <u>Also Reported on AZD4547 trials but with the relationship to AZD4547 still</u> <u>undetermined</u>: Fever, Alkaline phosphatase increased, Cardiac troponin T increased, Ejection fraction decreased, Musculoskeletal deformity, Acute kidney injury
  - Increase in Risk Attribution: <u>Less Likely:</u> Eye disorders - Other (chorioretinopathy) (updated from Chorioretinopathy)
  - Decrease in Attribution:

<u>Less Likely:</u> Dry eye, Diarrhea, Dry mouth, Mucositis oral (updated from Epithelial and mucosal dryness), Dry skin, Skin and subcutaneous tissues disorders – Other (nail disorders)<sup>3</sup> (updated from Nail and nail bed changes), Creatinine increased, Alanine aminotransferase increased and Aspartate aminotransferase increased (updated from Liver transaminases, increased), Metabolism and nutrition disorders - Other (hyperphosphatemia) (updated from Hyperphosphatemia), Dysgeusia (updated from Dysgeusia/ageusia)

Also Reported on AZD4547 trials but with the relationship to AZD4547 still <u>undetermined:</u> Anemia, Neutrophil count decreased (updated from Neutropenia), Cardiac troponin T increased (updated from increased troponin), Other (increase in LVEF) (updated from Left ventricular ejection fraction (LVEF) changes), Constipation, Nausea, Vomiting, Fatigue, Malaise, Sepsis, Blood bilirubin increased, GGT increased, Hyponatremia, Dehydration, Epistaxis, Respiratory failure, Dyspnea, Pleural effusion, Anorexia

Removed Risks:

<u>Likely:</u> Abdominal pain, Stomatitis, Asthenia, Lethary, Alopecia <u>Less Likely:</u> Eyelash disorder and trichomegaly, Hair disorder, Palmarplantar erythrodysesthesia (hand-foot) syndrome, <u>Rare but Serious</u>: A trial fibrillation, Atrial flutter, Hypertension, Pericardial effusion, Hypotension, Ocular hyperemia, Esophageal achalasia, Gastroesophageal reflux disease, Mucosal inflammation, Peripheral edema, Pyrexia, Pneumonia, Bile duct obstruction, Hypokalemia, Neuralgia, Dizziness, Depression, Delirium, Rash, Renal failure

- Updated wording: Retinal detachment<sup>2</sup> (updated from Retinal pigmented epithelial detachment (RPED)),
- Specific Protocol Exceptions to Expedited Reporting (SPEER) column has been added.
- 6. **Page 268, Section 5.0, Eligibility Criteria:** The first paragraph of this section has been revised to reflect the addition of Section 5.3 ("Common Eligibility Criteria for all Sub-Studies") and Section 5.4 ("Step 2 Re-Registration ").
- 7. **Page 269, Section 5.2f, Eligibility Criteria**: This section has been revised for clarification purposes. Specifically, a URL has been provided to list the drugs known to prolong the QT interval.



- Pages 270-273, Section 5.3, Common Eligibility Criteria for all Sub-Studies: This section, which is already included in Section 5.0 of the main study <u>S1400</u>, is now repeated here for convenience
- 9. **Pages 273-276, Section 5.4, Step 2 Re-Registration:** This section has been inserted for to register patients who progress on docetaxel to re-register to treatment with AZD4547.
- 10. **Page 277, Section 6.0, Stratification Factors:** This section has been updated as follows:
  - Section 6.0: The first paragraph has been inserted to state that patients will no longer be randomized or stratified.
- 11. **Page 277, Section 7.2, Treatment:** The first paragraph has been inserted to state that patients will no longer randomized. Arm 3: Re-Registration Treatment with AZD4547 has been added to define the treatment schedule.
- 12. **Page 278, Section 7.2c, Arm 3 Re-Registration:** This section has been inserted to provide the treatment plan for patients who progress on docetaxel and re-register to AZD4547.
- 13. **Page 278, Section 7.4b, Criteria for Removal from Protocol Treatment:** This section has been inserted to state that patients who progress on docetaxel and then re-register to AZD4547 and then progress must be removed from protocol treatment. The subsequent section has been re-numbered accordingly.
- 14. **Page 279, Section 7.6, Follow-Up Period**: This section has been updated to include the follow-up period for patients registered to Step 2 (Re-Registration).
- 15. **Page 280, Section 8.2e, General Considerations:** The phrase "or SRF" has been inserted in this section to clarify dose reduction exceptions.
- 16. **Page 281, Section 8.4, Dose Modifications Docetaxel:** The following statement has been inserted "<u>(Closed to accrual per Revision #3)".</u>
- 17. **Page 287, Section 9.1, Arm 1 AZD4547:** The calendar has been revised as follows:
  - In the  $\Omega$  footnote, "while on treatment" has been removed.
  - The € footnote has been added to the laboratory tests and notes these tests should be performed within 14 days prior to treatment.
  - In the β footnote, at the end of the first sentence, the phrase "unless otherwise noted" has been inserted.
- 18. **Pages 288-289, Section 9.2, Arm 2 Docetaxel:** A watermark has been added to the section stating "DOCETAXEL ARM CLOSED".
- 19. Pages 290-292, <u>Section 9.3</u>, Arm 3 Re-Registration AZD4547: This calendar has been inserted for patients who cross over to AZD4547 after progressing on docetaxel.
- 20. Page 293, Section 11.0, Statistical Considerations: The first sentence has been inserted to state that this study will use Design #2 as described in the main study <u>S1400</u>.
- 21. **Page 293, Section 11.1, Primary Objective and Biomarker Prevalence**: In the first paragraph of this section, in the first sentence, the primary objective has been changed to remove the docetaxel comparison.



- 22. **Page 293, Section 11.2, Sample Size with Power Justification**: The first paragraph of this section has been inserted to state that this study will employ the Phase II design described in the main study <u>S1400</u>. As a result, the majority of the rest of Section 11.2 is no longer necessary and has been deleted.
- 23. **Page 294, Section 13.1, Registration Timing:** A timeframe for beginning treatment after registration Step 2 (Re-Registration) has been inserted.
- 24. **Pages 295-296, Section 14.4, Data Submission Overview**: The section has been revised as follows:
  - Section 14.4b, has been inserted to provide information on forms to be submitted after registration Step 2 (Re-Registration). The subsequent section has been renumbered accordingly.
  - Section 14.4d and 14.4f, a reference to the re-registration arm has been inserted.
  - Section 14.4.f, the <u>S1400D</u> Laboratory Values From has been inserted.
  - Section 14.4g: has been revised to clarify that time is measured from the time of registration.
- 25. **Page 297, Section 15.2a.1, Peripheral Blood:** This section has been revised as follows:
  - The first bullet regarding peripheral blood has been revised for clarification purposes.
  - After the "Weeks 4, 7, 10, a sentence has been inserted to say that patients are not required to continue submitting specimens after they go off protocol treatment.
  - In the first full paragraph, in the third sentence, the statement "and the serum tube should be kept at room temperature until processing can be performed" has been removed to clarify which tube should be collected.
- 26. **Page 298, Section 15.2a.2, New Biopsy...:** This section has been reworded for clarification purposes.
- 27. **Page 298, Section 15.2b, Specimen Submission:** The timing of shipping in batches has been revised from 6 months to 3 months.
- 28. **Page 299, Section 15.3, Radiology Review:** The last paragraph of this section has been revised to state that the central review of scans will not be triggered if the study will not be submitted for FDA approval. This paragraph previously stated that the review would be triggered should the study be stopped for efficacy based on objective response rate or investigator-assessed progression-free survival.
- 29. **Pages 300-301, Section 16.1.e, Expedited reporting for investigational agents**: References to Arm 3 (Re-Registration) have been inserted since this arm includes AZD4547.
- 30. **Pages 307-308, Section 18.2 and <u>18.3</u>, Figures 2 and 3:** These figures have been updated for the management of eye toxicity with and without symptoms.



## <u>S1400E</u>

Page 309, Title Page: The S1400E title page has been updated as follows:

- The <u>S1400</u> title has been revised as described above in the <u>S1400</u> section of this memo.
- David Spigel has been removed from Sub-Study Chairs

## <u>S1400I</u>

**Pages 359-428, Section 18.2f, S1400I:** A new sub-study, <u>S1400I</u>, has been inserted. S1400I is an immunotherapy non-match sub-study. This study will use the original design, Design #1 (Phase II/III Design) comparing nivolumab (anti-PD1) + ipilimumab with nivolumab monotherapy in checkpoint-inhibitor-naïve patients. This study will be replacing the current non-match sub-study, <u>S1400A</u>.



## Model Consent Forms Changes

The following section refers to changes made to the Model Consent Form. Please refer to the IRB Review Requirements section on Page 1 of this memo.

- 1. The Version Date has been updated.
- 2. Throughout the consent form, typographical errors were corrected.
- 3. Pages 3 [S1400] and 18 [S1400 Pre-Screening], 33 [S1400A], 46 [S1400B], 61 [S1400C], and 75 [S1400D], Model Consent Form Title Page: The S1400 title has been revised as described above in the S1400 section of this memo and the substudy specific title added.
- 4. Pages 3 [S1400] and 18 [S1400 Pre-Screening], "What is the usual approach to my lung cancer?": This section has been replaced with the following: Squamous cell lung cancers make up about one-fourth of non-small cell lung cancer. Various chemotherapy drugs have been shown to improve survival for patients with advanced squamous lung cancer. Most patients will be treated at first with cisplatin or carboplatin in combination with a second chemotherapy drug such as gemcitabine, paclitaxel, docetaxel, or vinorelbine. In addition, an immunotherapy drug called nivolumab was recently FDA approved for patients with squamous lung cancer who previously received chemotherapy."
- 5. **Pages 3 [S1400], 18 [S1400 Pre-Screening] and 33 [1400A], "Why is this study being done?**": This section have been rewritten in a plan language for better patient understanding and the number of patients expected to be enrolled has been updated.
- 6. **Pages 4 [S1400] and 19 [S1400 Pre-Screening], "What are the study groups?":** The fourth paragraph of this section has been removed.
- 7. Pages 13 [S1400], 28 [S1400 Pre-Screening], 43 [S1400A], 57 [S1400B], 71 [S1400C], and 84 [S1400D], "What if I have more questions?": The italicized instructions "(include only applicable questions) have been removed
- 8. **Pages 31-44 [S1400A], Consent**: A watermark, "Closed effective 12/18/2015" has been added.
- 9. **Page 34 [S1400A], "What are the study groups?":** A third paragraph has been added and the Schema has been updated to reflect the addition of Re-treatment on MEDI4736.
- 10. **Page 35 [S1400A], "How long will I be in this study?":** This section has been revised to provide information to patients on the option to restart treatment on MEDI4736 should their cancer get worse.
- 11. Pages 35 [S1400A], 49 [S1400B], 63 [S1400C], 76 [S1400D], "What extra tests and procedures...?": The following changes have been made to this section: This section has been reworded for clarification purposes and template language added.
- 12. **Page 41 [S1400A], "What is involved":** The second bullet has been revised to include the additional correlative blood timepoints of before the study and at weeks 13 and 25.



- 13. Pages 43 [S1400A], 57 [S1400B], 70 [S1400C], 84 [S1400D], "Are there any costs or payments?": The first sentence has been revised to state that there are no costs to patients or insurance for the collection of testing of the tumor tissue and blood samples.
- 14. **Pages 46 [S1400B], 61 [S1400C], and 75 [S1400D], Model Consent Form Title Page:** The title has been updated to reflect the new design modifications and to remove the docetaxel comparison described at the beginning of this memo.
- 15. **Pages 46 [S1400B], 61 [S1400C], and 75 [S1400D], "Why is this study being done?"**: This section has been updated to reflect the re-design to a single arm substudy and removal of the docetaxel comparison arm. In addition, the expected number of patients to enroll has been reduced.
- 16. **Pages 47 [S1400B], 62 [S1400C], and 76 [S1400D], "What are the study groups?"**: This section has been updated to reflect the re-design to a single arm sub-study and removal of the docetaxel comparison arm.
- 17. Page 48 [S1400B], "What extra tests and procedures will I have if I take part in this study?": The procedure EKG has been removed from extra tests prior to the beginning of the study.
- 18. **Pages 50 [S1400B], 65 [S1400C], and 80 [S1400D], "What possible risks..."**: The docetaxel side-effects section has been removed.
- 19. **Pages 64-65** [S1400C], "What possible risks...": Patients currently receiving palbociclib must be informed of the bolded changes below. The manner by which this notification takes place is at the discretion of the local institution. The following changes have been made to the palbociclib side effects information:

Added New Risk to Occasional, some may be Serious (Less-Likely):

- a. Dry eye
- b. Sores in the mouth which may cause difficulty swallowing
- c. Watering eyes

Increase in Risk Attribution Changed to Occasional, some may be Serious (Less-Likely) from Reported but Undetermined:

- d. Blurred vision
- e. Changes in taste

Decrease in Risk Attribution Changed to Occasional may be Serious (Less-Likely) from Common:

f. Diarrhea

Decrease in Risk Attribution Changed to Reported But Undetermined from Occasional (i.e., removed from the Risk Profile):

- g. Pain
- h. Chills
- i. Cough
- j. Dry mouth
- k. Headache
- I. Muscle spasm
- 20. **Page 70 [S1400C]**, "What is involved?": The third bullet regarding the collection of biospecimens for patients on the docetaxel arm has been removed.



21. **Pages 79-80** [S1400D], "What possible risks...": Patients currently receiving AZD4547 must be informed of the bolded changes below. The manner by which this notification takes place is at the discretion of the local institution. The following changes have been made to the AZD4547 side effects information:

Added to Occasional, some may be Serious (Less-Likely):

Change in or loss of some or all of the finger or toenails

Decreased in Attribution to Occasional, some may be Serious (Less Likely):

- Dry eye, mouth, skin (updated from Dryness of the eye, Dry mouth, skin, and dryness of the tissue that lines body parts)
- Diarrhea
- Sores in mouth which may cause difficulty swallowing
- Changes in taste

Removed from Common, some may be Serious (Likely):

- Nose bleed
- Tiredness
- Constipation, nausea, vomiting
- Loss of appetite
- Hair loss
- Nail and nail bed changes
- Belly pain
- Removed from Occasional, some may be Serious (Less-Likely):
- Hair and eyelash changes and/or loss
- Redness, pain or peeling of the palms and soles

Removed from Rare and Serious (Rare, but Serious):

- Kidney damage, kidney failure
- Anemia which may require blood transfusions
- Infection, especially when blood cell count and/or neutrophils are low
- Decreased heart function and/or abnormal heart rhythm, high or low blood pressure, fluid around the heart
- Change to eye color (red eye)
- Changes in vision can include blurred vision, seeing flashes of light, and loss of vision
- Swelling and infection of the lung
- Acid reflux (painful burning sensation in the throat and stomach)
- Swelling and redness of the arms, leg or face
- Fever
- Dehydration (severe loss of body water)
- Pain in nerves
- Dizziness
- Skin rash
- Depression
- Confusion
- Severe difficulties breathing and/or shortness of breath (may cause you to pass out, hospitalization may be required)
- Sores in internal organs
- Blockage of throat which may cause difficulty swallowing
- Yellowing of the skin and/or eyes

Updated wording only (no change in risk attribution):

- Swelling on the inside of the eye and Swelling and redness of the eye (updated from Swelling or discomfort of the eye)
- Visual loss (updated from Visual changes)



22. **Pages 102-116 [S1400I], New Sub-study Model Consent Form:** A new sub-study model consent form, S1400I, has been inserted.

Due to the extensive repagination, an entire replacement protocol is attached. Please discard any previous versions of the protocol and attach this memorandum to the front of your copy of <u>S1400</u>. This memorandum serves to notify the NCI and the SWOG Statistical Center.

CC: **PROTOCOL & INFORMATION OFFICE** Hossein Borghaei, D.O. Jeffrey A. Engelman, M.D., Corey J. Langer, M.D. Martin J. Edelman, M.D. Charu Aggarwal, M.D., M.P Mark A. Socinski, M.D. Mary Redman, Ph.D. James Moon, M.S. Shannon McDonough, M.S Monica Yee, B.A. Louise Highleyman Kara Amber MedImmune, LLC. Genentech, Inc. Pfizer, Inc. AstraZeneca **Bristol Myers Squib** Foundation Medicine Inc. Clarient, Inc.



Date: 12/18/2015

To: **<u>S1400</u>** Participating Investigators

From: Vassiliki Papadimitrakopoulou, M.D. - S1400 Study Chair

Jeffrey Engelman, M.D., Ph.D.; Corey Langer, M.D. – <u>**S1400B**</u> Sub-Study Chairs Martin Edelman, M.D.; Kathy Albain, M.D. – <u>**S1400C**</u> Sub-Study Chairs Charu Aggarwal, M.D., M.P.H.; Primo Lara, M.D. – <u>**S1400D**</u> Sub-Study Chairs Roy Herbst, M.D. Ph.D. – <u>**S1400**</u> Study Chair David Gandara, M.D. – SWOG Lung Committee Chair

RE: **<u>S1400</u>**, "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer ". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.

Sub-studies: <u>S1400B</u> (P13K)/GENE; <u>S1400C</u> (CDK 4/6)/PFE; <u>S1400D</u> (FGFR)/AZN

#### **Investigator Letter**

The current Revision # 3 of <u>S1400</u> includes a design modification to a "hybrid" master protocol. The hybrid protocol allows for different statistical designs to be used for different sub-studies depending on the prevalence of the biomarker (or proportion of patients to be enrolled) and other factors for a given sub-study. Other changes to the protocol are outlined in the Memorandum – Revision # 3 accompanying the revision.

The modifications to the biomarker driven sub-studies (S1400B, S1400C, and S1400D) were made in response to the March 4, 2015, FDA approval of nivolumab (Opdivo®) for the treatment of patients with metastatic squamous non-small cell lung cancer (NSCLC) with progression on or after platinum-based chemotherapy. Nivolumab is a monoclonal antibody that binds to the PD-1 receptor and blocks its interaction with PD-L1 and PD-L2, thereby releasing PD-1 pathway-mediated inhibition of the immune response, including anti-tumor immune response. The approval was based on superior overall survival (OS) for patients who were randomly allocated to either nivolumab or docetaxel in an open-label randomized trial in patients with metastatic squamous NSCLC who had experienced disease progression during or after one prior platinum-based chemotherapy regimen. Median OS was 9.2 months (95% CI: 7.3. 13.3) for patients assigned to nivolumab and 6 months (95% CI: 5.1, 7.3) for those assigned to docetaxel. In light of the nivolumab approval for second-line therapy, continuation of the current randomized Phase II/III sub-studies was considered no longer feasible. Therefore, the sub-studies have been modified to single arm Phase II studies. If sub-study of any specific investigational therapy demonstrates sufficient activity in the Phase II portion and an acceptable safety profile of the agent being tested, subsequent patients will be enrolled in a randomized Phase III portion of the study with the standard of care arm selected after it is determined a phase III trial will be started. The follow-on Phase III will be a pivotal proof of efficacy and safety study. [Note: The modified single arm Phase 2 leading to Phase 3 will enroll new patients after implementation of protocol Revision # 3.]

Investigators must notify their local Institutional Review Board (IRB) and must inform their patients of the information in the manner recommended by their local IRB. For patients currently registered to S1400B, S1400C, and S1400D and randomized to receive docetaxel, a "Patient Information Letter" is enclosed as a model for your use.

While this letter need not be provided verbatim, the information in the letter must be provided in a manner recommended by the local IRB. Documentation that this information was provided must be retained in the patient's research record on site and will be subject to verification at the time of a Quality Assurance audit. The manner by which this notification takes place is at the discretion of the local institution. At a minimum, the patient must be notified by the next visit and this notification process must be documented in the patient chart.

#### **IRB Review Requirements:**

SWOG considers the Model Consent Forms changes to represent a major modification to S1400. At the time of the distribution of this notice:

## • ALL PATIENTS ON S1400B, S1400C, and S1400D, ARM 2 DOCETAXEL

A patient currently randomized to Arm 2, docetaxel, of **S1400B**, **S1400C**, and **S1400D** may continue to receive treatment with docetaxel if the patient is deriving clinical benefit, the patient agrees to continue treatment, and if their physician feels that it is in the patient's best interest to continue the treatment at this time. All patients will continue to be followed per protocol. However, since the docetaxel arms of <u>S1400B</u>, <u>S1400D</u> are closing, the Off Treatment Notice should be submitted via Rave® for Arm 2 patients per <u>S1400B</u>, <u>S1400C</u>, <u>S1400D</u> protocol Section 7.4 and cycle-specific treatment and adverse event forms are no longer required after the final Treatment and Adverse Event forms are submitted per <u>S1400B</u>, <u>S1400D</u> Section 14.4e. Since the secondary trial objectives are still ongoing, all patients are expected to continue with the protocol-specified follow-up. Patients will be given the option to re-register to the targeted therapy after progressing on docetaxel.

#### IRB Requirements

SWOG considers the Model Consent Forms changes to represent a major modification to <u>S1400</u>. Therefore, accrual of new patients will be suspended to <u>S1400 and the sub-studies</u> at the time of this notice until the revised Model Consent Forms, in association with this revision, as approved by the site's IRB of record, **are implemented**, and proof of that IRB approval is received by CTSU. For sites using the CIRB as their IRB of record, the date of CIRB approval was received on 11/22/2015.

Please direct questions to:

Eligibility/Data Submissions: <u>S1400Question@crab.org</u> Protocol/Regulatory: <u>cmiwa@swog.org</u> <u>S1400B</u> Treatment-related/Medical: <u>S1400BMedicalQuery@swog.org</u> <u>S1400C</u> Treatment-related/Medical: <u>S1400CMedicalQuery@swog.org</u> <u>S1400D</u> Treatment-related/Medical: <u>S1400DMedicalQuery@swog.org</u>

Thank you for your continued participation in the **<u>S1400</u>** - Lung-MAP

[Patient Letter: For patients currently registered to S1400B, S1400C, and S1400D, and randomized to receive docetaxel]

## PATIENT INFORMATION LETTER

For

**S1400**, "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer". Study Chairs: V. Papadimitrakopoulou, F.R. Hirsch, P.C. Mack, R.S. Herbst, L.W. Schwartz, and D.R. Gandara.

## Sub-studies: **<u>S1400B</u>** (P13K)/GENE; **<u>S1400C</u>** (CDK 4/6)/PFE; **<u>S1400D</u>** (FGFR)/AZN

You are participating in a SWOG research study to treat advanced squamous cell lung cancer in patients like you who have previously received chemotherapy. You were first assigned to a sub-study (S1400B, S1400C, or S1400D); then randomized to the 'standard of care' treatment arm, docetaxel. It was stated in your Consent Form that you would be given any new information that might affect your health or your willingness to continue in the study. We, the SWOG study investigators, have new information regarding the treatment for second line lung cancer.

In March 2015, the U.S. Food and Drug Administration (FDA) approved an immunotherapy drug called nivolumab (Opdivo®) for patients with squamous cell lung cancer who previously received chemotherapy. The approval was based on a study that found that patients treated with nivolumab lived longer than patients treated with the standard of care, docetaxel. Therefore, we decided that these sub-studies will be modified to include only investigational targeted treatment. There is no information that suggests that treatment with docetaxel is less effective than the investigational targeted therapy.

You will continue to receive treatment with docetaxel if you are deriving clinical benefit, and you agree to continue treatment, or if your physician feels that it is in your best interest to continue the treatment at this time. You will continue to be followed 'per protocol'. If your cancer gets worse on docetaxel, you will have the opportunity to crossover and receive the investigational targeted therapy.

We value the trust you have put in SWOG and regret any concern this may raise for you. You should discuss any questions you may have about this Patient Information Letter with your local study doctor. The results from this research study will contribute to the knowledge of how best to treat patients with advanced squamous cell lung cancer.

Thank you very much for your participation.

Sincerely,

Vassiliki Papadimitrakopoulou, M.D. Jeffrey Engelman, M.D., Ph.D. Corey Langer, M.D. Martin Edelman, M.D. Kathy Albain, M.D. Charu Aggarwal, M.D., M.P.H. Primo Lara, M.D. Roy Herbst, M.D., Ph.D. David Gandara, M.D.

#### 18.2f S1400I: (Non-Match sub-study): Nivolumab plus Ipilimumab versus Nivolumab

A BIOMARKER-DRIVEN MASTER PROTOCOL FOR PREVIOUSLY TREATED SQUAMOUS CELL LUNG CANCER

A PHASE III RANDOMIZED STUDY OF NIVOLUMAB PLUS IPILIMUMAB VERSUS NIVOLUMAB FOR PREVIOUSLY TREATED PATIENTS WITH STAGE IV SQUAMOUS CELL LUNG CANCER AND NO MATCHING BIOMARKER (LUNG-MAP SUB-STUDY)

Bristol Myers Squibb Protocol #: CA209-489

NCT #02154490

#### **SUB-STUDY CHAIRS:**

#### STUDY AGENTS:

Available from Pharmaceutical Collaborator: Nivolumab (NSC 748726) (IND-119672) Ipilimumab (NSC 732442) (IND-119672)

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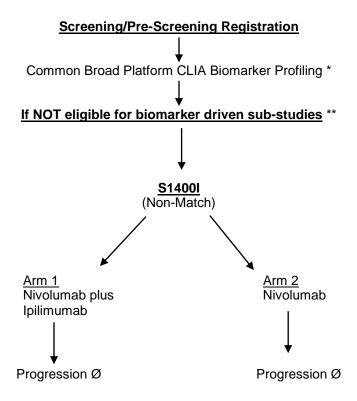


# CANCER TRIALS SUPPORT UNIT (CTSU) ADDRESS AND CONTACT INFORMATION

CANCER TRIALS SU	PPORT UNIT (CTSU) ADDRESS A	AND CONTACT INFORMATION			
To submit site registration documents:	For patient enrollments:	Submit study data directly to the Lead Cooperative Group unless otherwise specified in the protocol:			
CTSU Regulatory Office 1818 Market Street, Suite 1100 Philadelphia, PA19103 Fax: 215-569-0206 Email: CTSURegulatory@ctsu.cocc g.org For more information, call the CTSU Help Desk at 888- 823-5923 or the Regulatory Help Desk at 866-651- CTSU.	Please refer to the patient enrollment section of the protocol for instructions on using the Oncology Patient Enrollment Network (OPEN) which can be accessed at https://www.ctsu.org/OPEN_SY STEM/ or https://OPEN.ctsu.org. Contact the CTSU Help Desk with any OPEN-related questions at ctsucontact@westat.com.	Data collection for this study will be done exclusively through Medidata Rave. Please see the data submission section of the protocol for further instructions. <u>Other Tools and Reports</u> : Institutions participating through the CTSU continue to have access to other tools and reports available to the SWOG Workbench. Access this by using your active CTEP-IAM USER ID and password at the following url: https://crawb.crab.org/TXWB/ctsulogo n.aspx.			
The most current version of the <b>study protocol and all supporting documents</b> must be downloaded from the protocol-specific Web page of the CTSU Member Web site located at https://www.ctsu.org. Access to the CTSU members' website is managed through the Cancer Therapy and Evaluation Program - Identity and Access Management (CTEP-IAM) registration system and requires user log on with CTEP-IAM username and password. Permission to view and download this protocol and its supporting documents is restricted and is based on person and site roster assignment housed in the CTSU RSS.					
CTSU sties should follow procedures outlined in the protocol for site registration. Patient Enrollment, Adverse Event Reporting, Data Submission (including ancillary studies), and Drug Procurement: <b>For patient eligibility questions</b> contact the SWOG Data Operations Center by phone or email:					
206-652-2267 <u>S1400</u> question@crab.org <u>For treatment or toxicity related questions contact S1400IMedicalquery@swog.org.</u>					
For questions unrelated to patient eligibility, treatment, or data submission contact the CTSU Help Desk by phone or e-mail: CTSU General Information Line:					
888-823-5923 S1400contact@westat.com					
All calls and correspondence v The CTSU Web site is locate	vill be triaged to the appropriate CT	SU representative.			
THE CIOU WED SILE IS IOCATE	u al mups.//www.cisu.org				



#### SCHEMA



- \* Archival formalin-fixed paraffin-embedded (FFPE) tumor, fresh core needle biopsy if needed
- \*\* Notification of sub-study assignment will be provided by the SWOG Statistical Center (see <u>Section</u> <u>11.0</u> in <u>S1400</u> for details).
- Ø Upon progression (as defined in <u>Section 10.2d</u> in <u>S1400</u>), patients may be eligible for another substudy. The new sub-study assignment will be determined by the SWOG Statistical Center. (see <u>Section 14.6</u>).



## 1.0 OBJECTIVES

1.1 Primary Objective

To compare overall survival (OS) in patients with advanced stage refractory SCCA of the lung randomized to nivolumab plus ipilimumab versus nivolumab.

- 1.2 Secondary objective(s):
  - a. To compare investigator-assessed progression-free survival (IA-PFS) in patients with advanced stage refractory SCCA of the lung randomized to nivolumab plus ipilimumab versus nivolumab.
  - b. To compare the response rates (confirmed and unconfirmed, complete and partial) per RECIST 1.1 among patients randomized to receive nivolumab plus ipilimumab versus nivolumab.
  - c. To compare the response rates (confirmed only, complete and partial) per RECIST 1.1 among patients randomized to receive nivolumab plus ipilimumab versus nivolumab.
  - d. To evaluate the frequency and severity of toxicities associated with nivolumab plus ipilimumab versus nivolumab.
- 1.3 Translational Medicine Objectives:
  - a. To evaluate if there is a differential treatment effect on OS, IA-PFS, and Response by tumor PD-L1 expression status.
  - b. To examine patient reported outcomes by treatment arm. (NOTE: Specific objectives for the <u>S1400I</u> Patient Reported Outcomes (PRO) are located in Section 18.2 of <u>S1400I</u>.)



## 2.0 BACKGROUND

#### Introduction

Non-small cell lung cancer (NSCLC) remains the leading cause of cancer-related mortality worldwide, accounting for approximately 18% of all cancer deaths. (1) Despite treatment with standard platinum-based doublet chemotherapy, patients with metastatic NSCLC have a median survival of approximately 10 months, and a 5-year survival rate of less than 5%. (2)

Immunotherapeutic approaches recently have demonstrated clinical efficacy in several cancer types, including melanoma and hormone-refractory prostate cancer. (3) Tumors may modulate and evade the host immune response through a number of mechanisms, including down regulation of tumor-specific antigen expression and presentation, secretion of anti-inflammatory cytokines, and upregulation of inhibitory ligands. T cell checkpoint regulators such as CTLA-4 and programmed death-1 (PD-1, CD279) are cell surface molecules that, when engaged by their cognate ligands, induce signaling cascades down-regulating T cell activation and proliferation. One proposed model by which therapeutic T cell checkpoint inhibitors derive antitumor activity is through breaking of immune tolerance to tumor cell antigens.

Nivolumab (BMS-936558) is a fully human, IgG4 (kappa) isotype mAb that binds PD-1 on activated immune cells and disrupts engagement of the receptor with its ligands PD-L1 (B7-H1/CD274) and PD-L2 (B7-DC/CD273), thereby abrogating inhibitory signals and augmenting the host antitumor response. In early clinical trials, nivolumab has demonstrated activity in several tumor types, including melanoma, renal cell cancer (RCC), and NSCLC. (4)

Nivolumab (Opdivo®) 3 mg/kg intravenously (IV) every 2 weeks was recently approved in the U.S. to treat patients with metastatic squamous cell NSCLC with progression on or after platinum-based chemotherapy. (5,6) The approval was based on the results of CA209017 (CHECKpoint pathway and nivoluMAb clinical Trial Evaluation-017 [CheckMate-017]), a randomized trial of nivolumab 3 mg/kg IV every 2 weeks versus docetaxel 75 mg/m<sup>2</sup> IV every 3 weeks in 272 patients. The median OS for patients in the nivolumab arm was 9.2 months versus 6 months for those in the docetaxel arm (HR = 0.59). Improvement in survival was observed for nivolumab regardless of PD-L1 expression, though there was a trend for better efficacy for those with PD-L1+ tumors. (7) A single arm trial (CA209063, CheckMate-063) of 117 patients with metastatic squamous cell NSCLC, with progression after platinum-based chemotherapy and at least one additional systemic regimen, showed a 15% overall objective response rate (ORR), of whom 59% had response durations of 6 months or longer. (8)

A second Phase 3 study, CA209057 was recently stopped at a preplanned interim analysis by the independent Data Monitoring Committee (DMC), demonstrating superior overall survival of nivolumab 3 mg/kg IV every 3 weeks versus docetaxel 75 mg/m<sup>2</sup> IV every 3 weeks in patients with previously-treated non-squamous NSCLC with a 27% reduction in risk of death (HR = 0.73; P = 0.0015). (*9*) Interaction p-values reported for PD-L1 expression subgroups by each of the pre-defined expression levels suggested a clinically important signal of a predictive association. Nivolumab also significantly improved ORR versus docetaxel (P=0.0246), with ORR as high as 36% in subjects with PD-L1 expressing tumors. OS approximately doubled with nivolumab versus docetaxel across the PD-L1 expression continuum. In contrast, no difference in OS was seen between nivolumab and docetaxel when PD-L1 was not expressed in the tumor.



Nivolumab monotherapy has also been evaluated in first-line NSCLC, where it showed promising activity regardless of histology. (10) As in pretreated NSCLC, activity with nivolumab monotherapy is pronounced in PD-L1+ NSCLC.

In general, nivolumab also has been well tolerated to date, with a favorable safety profile relative to anticipated toxicities based on an immunostimulatory mechanism of action. (11)

Combining immunotherapeutic agents with different mechanisms of action offers the possibility of a synergistic response. PD-1 and CTLA-4 are both co-inhibitory molecules, but evidence suggests that they use distinct mechanisms to limit T cell activation. Preliminary indirect data from peripheral T cell assessments suggest that a given T-cell checkpoint inhibitor may modulate host immune cell phenotype rendering them more susceptible to alternate checkpoint inhibitors and thereby enhancing anti-tumor activity.

Preclinical testing data confirmed that the combination of PD-1 and CTLA-4 receptor blockade may improve antitumor activity. In vitro combinations of nivolumab plus ipilimumab increase IFN- $\gamma$  production 2- to 7-fold over either agent alone in a mixed lymphocyte reaction. Increased antitumor activity of the combination was also observed in 3 of 5 syngeneic murine cancer models. In a murine melanoma vaccine model, blockade with either CTLA-4 or PD-1 antibodies increased the proportion of CTLA-4 and PD-1-expressing CD4/CD8 tumor infiltrating T effector cells, and dual blockade increased tumor infiltration of T effector cells and decreased intratumoral T regulatory cells, as compared to either agent alone. (12)

Several clinical studies of the combination of nivolumab with ipilimumab have been conducted or are planned. In a Phase 1 clinical study of the combination of nivolumab plus ipilimumab in advanced melanoma (CA209004), there was a 41% response rate, including a 17% complete response rate (CR). (13) A randomized Phase 2 study (CA209069) comparing nivolumab plus ipilimumab versus ipilimumab showed an ORR of 61%, including a 22% complete response rate, in previously untreated, advanced melanoma patients with BRAF wild-type mutation status, versus 11 % for ipilimumab alone. (14) In addition, the combination regimen decreased the risk of melanoma progression or death compared to ipilimumab alone by 60%. Similar results were also observed in BRAF mutation-positive patients.

In a Phase 1 study in patients with NSCLC (CA209012), the combination of nivolumab plus ipilimumab is being evaluated at several different doses and schedules (see Rationale for Dose Selection and Schedule below). While the schedule evaluated in melanoma was not found to be tolerable in NSCLC, the study has identified alternative schedules with acceptable tolerability profiles.

CA209227 (CheckMate-227) is a randomized, open-label Phase 3 trial of nivolumab monotherapy or nivolumab plus ipilimumab versus platinum doublet chemotherapy in previously untreated subjects with Stage IV or recurrent PD-L1+ NSCLC, and nivolumab plus ipilimumab (2 different schedules) versus platinum doublet chemotherapy in subjects with Stage IV or recurrent PD-L1- NSCLC. The objectives of this study are to determine whether:

- nivolumab monotherapy or nivolumab plus ipilimumab improves OS and PFS compared with platinum doublet chemotherapy in subjects with PD-L1+ Stage IV or recurrent NSCLC, and
- nivolumab plus ipilimumab improves OS and PFS compared with platinum doublet chemotherapy in subjects with PD-L1- Stage IV or recurrent NSCLC.

Rationale for dose selections and schedules of nivolumab in combination with ipilimumab



Nivolumab plus ipilimumab combination has been also evaluated as first-line therapy in patients with advanced NSCLC. In CA209012, early combination cohorts evaluated 2 dosing schedules.

- nivolumab 1 mg/kg + ipilimumab 3 mg/kg, q 3 weeks x4, followed by nivolumab 3 mg/kg q 2 weeks (n=24);
- nivolumab 3 mg/kg + ipilimumab 1 mg/kg, q 3 weeks x4, followed by nivolumab 3 mg/kg q 2 weeks (n=25)
- •

These regimens resulted in significant toxicity, with 39% of patients discontinuing treatment due to a treatment-related adverse event.

Thus, additional combination cohorts were initiated, using lower doses of both nivolumab and ipilimumab, or less frequent dosing of ipilimumab. Data from these cohorts demonstrate that both nivolumab 1 mg/kg + ipilimumab 1 mg/kg q 3 weeks with nivolumab maintenance 3 mg/kg q2w, as well as ipilimumab at 1 mg/kg q6w is tolerable, when given with nivolumab 3 mg/kg q2w.

Overall, the safety data are not dissimilar to what has been observed with nivolumab alone (i.e., in CA209012). Of particular note, the rate of discontinuation due to drug-related AEs was 13% and 11% in these combinations arms compared to 10% in the nivolumab monotherapy arm.

Table <sup>2</sup>	Table 1: Treatment-related adverse events from selected cohorts in CA209012						
Arm	No. Subjects/ arm	Follow-up time (median, wks)	No. Subjects still on treatment	No. Subjects with drug- related AEs	No. Subjects with Grade 3-4 drug- related AEs	No. subjects d/c due to drug-related AEs (all grades	
а	31	57	9 (29%)	23 (74%)	9 (29%)	4 (13%)	
b	37	18	19 (51%)	20 (54%)	9 (24%)	4 (11%)	
с	52	62	5 (10%)	37 (71%)	10 (19%)	5 (10%)	

 a nivolumab 1 mg/kg plus ipilimumab 1 mg/kg every 3 weeks x 4, followed by nivolumab 3 mg/kg every 2 weeks

<sup>b</sup> nivolumab 3 mg/kg every 2 weeks plus ipilimumab 1 mg/kg every 6 weeks

<sup>c</sup> nivolumab 3 mg/kg every 2 weeks

The significant toxicity observed in some of the other original cohorts resulted in limited exposure to treatment as demonstrated by the high discontinuation rate. Nonetheless, clinical activity was observed.



	ORR % (n/N)	OS-12 mo	mOS (mos)	mPFS (wks)	PFS-24wk
Nivolumat	o 1 mg/kg + Ipilimu		. ,	. , ,	
	5.5 1	(arms		,	5.5.1
PD-L1+	17% (2/12)	83%	NR <sup>a</sup>	33.7	51%
PD-L1-	11% (1/9)	56%	19.8	12.4	38%
PD-L1 unk	0 (0/3)	33%	10.9	8.7	NC <sup>b</sup>
Nivolumat	o 3 mg/kg + Ipilimu	mab 1 mg/kg q	3w x4, followed b	y Nivolumab	3 mg/kg q2w
		(arms	s I/J)	-	
PD-L1+	25% (4/16)	50%	16.5	14.4	33%
PD-L1-	0 (0/6)	33%	4.4	10.6	50%
PD-L1 unk	33%	33%	10.8	15.4	100%

a NR= not reached

<sup>b</sup> NC= not calculated

Based on these data, nivolumab (3 mg/kg every 2 weeks, i.e., the FDA approved dose in pretreated squamous NSCLC) with the highest dose and frequency of ipilimumab feasible (1 mg/kg every 6 weeks) will be evaluated.

#### HIV, HBV, and HCV Exclusion Rationale

Patients with known HIV/HBV/HCV infection will be excluded from this study. Immune checkpoint inhibition is a relatively new class of therapy. While HIV patients have been studied with anti-CTLA4 therapy, the unique interactions of PD-1/PD-L1 inhibitors and HIV may be difficult to predict and require further study. Since many of these patients may already be highly suppressed with antiretroviral therapy, standard assays may not be sensitive enough to detect a safety signal of increasing viral load. Thus, these patients may need to be studied in trials with access to such sensitive assays to better inform drug development in this particular population. The impact of PD-1/PD-L1 inhibition in HIV patients may be beneficial, which is of great interest in drug development in the field of chronic infections generally. We have elected not to complicate our trial with this added and important question at this time.

#### 3.0 DRUG INFORMATION

For information regarding Investigator's Brochures, please refer to SWOG Policy 15.

For this sub-study, nivolumab plus ipilimumab is investigational and is being provided under an IND held by SWOG. For INDs filed by SWOG, the protocol serves as the Investigator Brochure for the performance of the protocol. In such instances submission of the protocol to the IRB should suffice for providing the IRB with information about the drug. However, in cases where the IRB insists on having the official Investigator Brochure from the company, further information may be requested by contacting the SWOG Operations Office at 210/614-8808.

- 3.1 Nivolumab (BMS-936558, MDX1106, Opdivo®) (NSC # 748726) (IND-119672)
  - a. PHARMACOLOGY

<u>Mechanism of Action</u>: Nivolumab is human monoclonal antibody which targets the programmed death-1 (PD-1, cluster of differentiation 279



[CD279]) cell surface membrane receptor. PD-1 is a negative regulatory receptor expressed by activated T and B lymphocytes. Binding of PD-1 to its ligands, programmed death–ligand 1 (PD-L1) and 2 (PD-L2), results in the down-regulation of lymphocyte activation. Nivolumab inhibits the binding of PD-1 to PD-L1 and PD-L2. Inhibition of the interaction between PD-1 and its ligands promotes immune responses and antigen-specific T-cell responses to both foreign antigens as well as self-antigens.

#### b. PHARMACOKINETICS

- 1. <u>Distribution</u>: Nivolumab has linear pharmacokinetics after single and multiple dosing within the range 0.1 mg/kg to 10 mg/kg. The volume distribution (Vd) is 8L.
- 2. <u>Elimination</u>: Clearance is independent of dose in the range 0.1 mg/kg to 10 mg/kg. The total body clearance is 9.5 mL/hr, and the elimination half-life of is approximately 26.7 days. Body weight normalized dosing showed approximately constant trough concentrations over a wide range of body weights.

## c. ADVERSE EFFECTS

1. <u>Adverse Effects</u>: The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements'

http://ctep.cancer.gov/protocolDevelopment/electronic\_applicatio ns/docs/aeguidelines.pdf for further clarification. *Frequency is provided based on 2069 patients*. Below is the CAEPR for BMS-936558 (Nivolumab, MDX-1106).

#### Version 2.2, November 15, 2016<sup>1</sup>

Adverse Events with Possible Relationship to BMS-936558 (Nivolumab, MDX-1106) (CTCAE 4.0 Term) [n= 2069]			
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
BLOOD AND LYMPHATIC SYSTEM DISORDERS			
	Anemia		



Adverse Events with Possible Relationship to BMS-936558 (Nivolumab, MDX-1106) (CTCAE 4.0 Term) [n= 2069]			
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
CARDIAC DISORDER	RS		
		Cardiac disorders - Other (cardiomyopathy)	
		Myocarditis	
		Pericardial tamponade <sup>2</sup>	
		Pericarditis	
ENDOCRINE DISORD	1		
	Adrenal insufficiency Endocrine disorders - Other (hypophysitis) Hyperthyroidism		
	Hypothyroidism		
EYE DISORDERS		Eye disorders - Other (diplopia)	
		Eye disorders - Other (Graves ophthalmopathy) Eye disorders -	
		Other (optic neuritis retrobulbar)	
	Uveitis		
GASTROINTESTINAL			
	Abdominal pain		
	Colitis	Oslania nationation	
	Diarrhea	Colonic perforation	
	Dry mouth		
		Gastritis	
	Nausea		
CONDITIONS	RS AND ADMINISTRATION	JN SITE	
Fatigue			
	Fever Infusion related reaction <sup>4</sup>		
	Injection site reaction		



Adverse Events with Possible Relationship to BMS-936558 (Nivolumab, MDX-1106) (CTCAE 4.0 Term) [n= 2069]					
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)			
IMMUNE SYSTEM DIS	MMUNE SYSTEM DISORDERS				
		Allergic reaction			
		Autoimmune disorder <sup>5</sup>			
		Cytokine release syndrome <sup>6</sup>			
		Immune system disorders - Other GVHD in the setting of allotransplant <sup>7</sup>			
		Immune system disorders - Other (sarcoid granuloma) <sup>5</sup>			
INVESTIGATIONS					
	Alanine aminotransferase increased				
	Aspartate aminotransferase increased				
	Blood bilirubin increased				
	Creatinine increased				
	Lipase increased				
	Lymphocyte count decreased				
	Neutrophil count decreased				
	Platelet count decreased				
	Serum amylase increased				

METABOLISM AND NUTR	ITION DISORDERS	
	Anorexia	
		Hyperglycemia
		Metabolism and nutrition disorders - Other (diabetes mellitus with ketoacidosis)



connective tissue disorder - Other (polymyositis) Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis) Myositis NERVOUS SYSTEM DISORDERS Encephalopathy Facial nerve disorder <sup>5</sup> Nervous system disorders - Other (demyelination myasthenic syndrome) Nervous system disorders - Other (encephalitis) Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoradiculitis) Nervous system disorders - Other (meningoradiculitis) Nervous system disorders - Other (myasthenia gravis) <sup>5</sup> Nervous system disorders - Other (myasthenic syndrome) Peripheral motor neuropathy	Adverse Events with Possible				
In= 2069]           Likely (>20%)         Less Likely (<=20%)					
Likely (>20%) Less Likely (<=20%) Rare but Serious (<3%) MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS Arthralgia Musculoskeletal and connective tissue disorder - Other (polymyositis) Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis) Myositis NERVOUS SYSTEM DISORDERS Encephalopathy Facial nerve disorder <sup>5</sup> Nervous system disorders - Other (demyelination myasthenic syndrome) Nervous system disorders - Other (Guillan-Barre syndrome) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoradiculitis) Nervous syst	· · · · · · · · · · · · · · · · · · ·				
And Connective Tissue Disorders           Arthralgia         Musculoskeletal and connective tissue disorder - Other (polymyositis)           Musculoskeletal and connective tissue disorder - Other (polymyositis)         Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis)           Nervous SYSTEM DISORDERS         Encephalopathy           Facial nerve disorder <sup>5</sup> Nervous system disorders - Other (demyelination myasthenic syndrome)           Nervous system         disorders - Other (demyelination myasthenic syndrome)           Nervous system         disorders - Other (demyelination myasthenic syndrome)           Nervous system         disorders - Other (demyelination myasthenic syndrome)           Nervous system         disorders - Other (disorders - Other (guillain-Barre syndrome)           Nervous system         disorders - Other (meningoen-cephalitis)           Nervous system         disorders - Other (meningoen-cephalitis)           Nervous system         disorders - Other (meningoen-cephalitis)           Nervous system         disorders - Other (meningoradiculitis)           Nervous system         disorders - Other (myasthenic syndrome)           Nervous system	Likoly (> 20%)				
MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS Arthralgia Arthralgia Musculoskeletal and connective tissue disorder - Other (polymyositis) Musculoskeletal and connective tissue disorder - Other (thabdomyolysis) Myositis NERVOUS SYSTEM DISORDERS Encephalopathy Facial nerve disorder <sup>5</sup> Nervous system disorders - Other (demyelination myasthenic syndrome) Nervous system disorders - Other (encephalitis) Nervous system disorders - Other (fauillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoradiculitis) Nervous system disorders - Other (myasthenia gravis) <sup>5</sup> Nervous system disorders - Other (myasthenic syndrome) Peripheral motor neuropathy	LIKEIY (>20 /0)	Less Likely (<=20 /0)			
Musculoskeletal and connective tissue disorder - Other (polymyositis) Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis) Myositis NERVOUS SYSTEM DISORDERS Encephalopathy Facial nerve disorder <sup>5</sup> Nervous system disorder <sup>5</sup> Nervous system disorders - Other (demyelination myasthenic syndrome) Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoraticulitis) Nervous system disorders - Other (myasthenia gravis) <sup>5</sup> Nervous system disorders - Other (myasthe	MUSCULOSKELETA	L AND CONNECTIVE T			
connective tissue disorder - Other (polymyositis) Musculoskeletal and connective tissue disorder - Other (rhabdomyolysis) Myositis NERVOUS SYSTEM DISORDERS Encephalopathy Facial nerve disorder <sup>5</sup> Nervous system disorders - Other (demyelination myasthenic syndrome) Nervous system disorders - Other (encephalitis) Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoradiculitis) Nervous system disorders - Other (meningoradiculitis) Nervous system disorders - Other (myasthenia gravis) <sup>5</sup> Nervous system disorders - Other (myasthenic syndrome) Peripheral motor neuropathy		Arthralgia			
connective tissue disorder - Other (rhabdomyolysis) Myositis NERVOUS SYSTEM DISORDERS Encephalopathy Facial nerve disorder <sup>5</sup> Nervous system disorders - Other (demyelination myasthenic syndrome) Nervous system disorders - Other (encephalitis) Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningora- cephalitis) Nervous system disorders - Other (myasthenia gravis) <sup>5</sup> Nervous system disorders - Other (myasthenia gravis) <sup>5</sup>			disorder - Other		
NERVOUS SYSTEM DISORDERS Encephalopathy Facial nerve disorder <sup>5</sup> Nervous system disorders - Other (demyelination myasthenic syndrome) Nervous system disorders - Other (encephalitis) Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoradiculitis) Nervous system disorders - Other (myasthenia gravis) <sup>5</sup> Nervous s			disorder - Other (rhabdomyolysis)		
Encephalopathy         Facial nerve         disorder <sup>5</sup> Nervous system         disorders - Other         (demyelination         myasthenic         syndrome)         Nervous system         disorders - Other         (encephalitis)         Nervous system         disorders - Other         (Guillain-Barre         syndrome) <sup>5</sup> Nervous system         disorders - Other         (Guillain-Barre         syndrome) <sup>5</sup> Nervous system         disorders - Other         (meningoen-         cephalitis)         Nervous system         disorders - Other         (meningoradiculitis)         Nervous system         disorders - Other         (myasthenia gravis) <sup>5</sup> Nervous system         disorders - Other         (myast			Myositis		
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Nervous system         disorders - Other         (encephalitis)         Nervous system         disorders - Other         (Guillain-Barre         syndrome) <sup>5</sup> Nervous system         disorders - Other         (Guillain-Barre         syndrome) <sup>5</sup> Nervous system         disorders - Other         (meningoen-         cephalitis)         Nervous system         disorders - Other         (meningoradiculitis)         Nervous system         disorders - Other         (myasthenia gravis) <sup>5</sup> Nervous system         disorders - Other         (myasthenia gravis) <sup>5</sup> Nervous system         disorders - Other         (myasthenia gravis) <sup>5</sup> Nervous system         disorders - Other         (myasthenic         syndrome)         Peripheral motor         neuropathy         Peripheral sensory         neuropathy			disorders - Other (demyelination myasthenic		
disorders - Other (Guillain-Barre syndrome) <sup>5</sup> Nervous system disorders - Other (meningoen- cephalitis) Nervous system disorders - Other (meningoradiculitis) Nervous system disorders - Other (myasthenia gravis) <sup>5</sup> Nervous system disorders - Other (myasthenia gravis) <sup>5</sup> Nervous system disorders - Other (myasthenic syndrome) Peripheral motor neuropathy Peripheral sensory neuropathy			Nervous system disorders - Other		
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disorders - Other (myasthenia gravis) <sup>5</sup> Nervous system disorders - Other (myasthenic syndrome) Peripheral motor neuropathy Peripheral sensory neuropathy			disorders - Other		
disorders - Other (myasthenic syndrome) Peripheral motor neuropathy Peripheral sensory neuropathy			disorders - Other (myasthenia gravis) <sup>5</sup>		
Peripheral motor neuropathy Peripheral sensory neuropathy			disorders - Other (myasthenic		
			Peripheral motor neuropathy Peripheral sensory		
			neuropathy		
RENAL AND URINARY DISORDERS Acute kidney injury	RENAL AND URINAF	CY DISORDERS			



Adverse Events with Possible Relationship to BMS-936558 (Nivolumab, MDX-1106) (CTCAE 4.0 Term) [n= 2069]			
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
	Pleural effusion		
	Pneumonitis		
		Respiratory, thoracic and mediastinal disorders - Other (bronchiolitis obliterans with organizing pneumonia) Erythema	
	Pruritus	multiforme	
	Rash maculo-papular		
	Skin hypopigmentation		
	Skin and subcutaneous disorders - Other (Sweet's Syndrome)		

- <sup>1</sup> This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting PIO@CTEP.NCI.NIH.GOV. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.
- <sup>2</sup> Pericardial tamponade may be related to possible inflammatory reaction at tumor site.
- <sup>3</sup> Pancreatitis may result in increased serum amylase and/or more frequently lipase.
- <sup>4</sup> Infusion reactions, including high-grade hypersensitivity reactions which have been observed following administration of nivolumab, may manifest as fever, chills, shakes, itching, rash, hypertension or hypotension, or difficulty breathing during and immediately after administration of nivolumab.
- <sup>5</sup> BMS-936558 (Nivolumab, MDX-1106) being a member of class of agents involved in the inhibition of "immune checkpoints", may result in severe and possibly fatal immune-mediated adverse events probably due to T-cell activation and proliferation. This may result in autoimmune disorders that can include (but are not limited to) autoimmune hemolytic anemia, acquired anti-factor VIII immune response, autoimmune aseptic meningitis, autoimmune hepatitis, autoimmune nephritis, autoimmune neuropathy, autoimmune thyroiditis, bullous pemphigoid, exacerbation of Churg-Strauss Syndrome, drug rash with eosinophilia systemic symptoms [DRESS] syndrome, facial nerve disorder (facial nerve paralysis), limbic encephalitis, hepatic failure, pure red cell aplasia, pancreatitis, ulcerative and hemorrhagic colitis,



endocrine disorders autoimmune thyroiditis, (e.g., hyperthyroidism, hypothyroidism, autoimmune hypophysitis/hypopituitarism, thyrotoxicosis, and adrenal insufficiency), sarcoid granuloma, myasthenia gravis, polymyositis, and Guillain-Barre syndrome.

- <sup>6</sup> Cytokine release syndrome may manifest as hemophagocytic lymphohistiocytosis with accompanying fever and pancytopenia.
- <sup>7</sup> Complications including hyperacute graft-versus-host disease (GVHD), some fatal, have occurred in patients receiving allo stem cell transplant (SCT) after receiving BMS-936558 (Nivolumab, MDX-1106). These complications may occur despite intervening therapy between receiving BMS-936558 (Nivolumab, MDX-1106) and allo-SCT.

Adverse events reported on BMS-936558 (Nivolumab, MDX-1106) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that BMS-936558 (Nivolumab, MDX-1106) caused the adverse event:

CARDIAC DISORDERS - Atrial fibrillation; Atrioventricular block complete; Heart failure; Ventricular arrhythmia EAR AND LABYRINTH DISORDERS - Vestibular disorder EYE DISORDERS - Eye disorders - Other (iridocyclitis); Optic

nerve disorder **GASTROINTESTINAL DISORDERS** - Constipation; Duodenal ulcer; Flatulence; Gastrointestinal disorders - Other (mouth sores); Mucositis oral; Vomiting

GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS - Chills; Edema limbs; Malaise; Pain HEPATOBILIARY DISORDERS - Bile duct stenosis IMMUNE SYSTEM DISORDERS - Anaphylaxis; Immune system disorders - Other (autoimmune thrombotic microangiopathy); Immune system disorders - Other (limbic encephalitis)

**INFECTIONS AND INFESTATIONS** - Bronchial infection; Lung infection; Sepsis; Upper respiratory infection

**INVESTIGATIONS** - GGT increased; Investigations - Other (blood LDH increased); Investigations - Other (protein total decreased); Investigations - Other (WBC count increased); Lymphocyte count increased; Weight loss

**METABOLISM AND NUTRITION DISORDERS** - Dehydration; Hyperuricemia; Hypoalbuminemia; Hypocalcemia; Hyponatremia; Hypophosphatemia

MUSCULOSKELETAL AND CONNECTIVE TISSUE

**DISORDERS** - Back pain; Musculoskeletal and connective tissue disorder - Other (musculoskeletal pain); Musculoskeletal and connective tissue disorder - Other (polymyalgia rheumatica); Myalgia; Pain in extremity

**NEOPLASMS BENIGN, MALIGNANT AND UNSPECIFIED** (INCL CYSTS AND POLYPS) - Neoplasms benign, malignant and unspecified (incl cysts and polyps) - Other (histiocytic necrotizing lymphadenitis)

**NERVOUS SYSTEM DISORDERS** - Dizziness; Headache; Intracranial hemorrhage

**PSYCHIATRIC DISORDERS** - Insomnia



RENAL AND URINARY DISORDERS - Hematuria; Renal and urinary disorders - Other (tubulointerstitial nephritis) THORACIC AND **MEDIASTINAL RESPIRATORY**, DISORDERS - Bronchospasm; Cough; Dyspnea; Hypoxia SKIN AND SUBCUTANEOUS TISSUE DISORDERS - Alopecia; Dry skin; Hyperhidrosis; Pain of skin; Periorbital edema; Photosensitivity; Rash acneiform; Skin and subcutaneous tissue disorders - Other (rosacea); Toxic epidermal necrolysis VASCULAR DISORDERS -Flushina: Hypertension: Hypotension; Vasculitis

**Note**: BMS-936558 (Nivolumab, MDX-1106) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

2. <u>Pregnancy and Lactation</u>:

Pregnancy: Adverse events were observed in animal reproduction studies. Nivolumab may be expected to cross the placenta; effects to the fetus may be greater in the second and third trimesters. Based on its mechanism of action, nivolumab is expected to cause fetal harm if used during pregnancy. Women of reproductive potential should use highly-effective contraception during therapy and for at least 23 weeks after treatment has been discontinued. Men receiving nivolumab and who are sexually active with women of child bearing potential should adhere to contraception for a period of 31 weeks after the last dose of nivolumab.

Lactation: It is not known if nivolumab is excreted into breast milk. Due to the potential for serious adverse reactions in the nursing infant, the manufacturer recommends women to discontinue breastfeeding during treatment with nivolumab.

3. <u>Drug Interactions</u>: Nivolumab is not expected to have any effect on cytochrome P450 or other drug metabolizing enzymes in terms of inhibition or induction, and is, therefore, not expected to induce these types of PK-based drug interactions. No incompatibilities between nivolumab injection and polyvinyl chloride (PVC), non-PVC/non-DEHP (di(2-ethylhexyl)phthalate) IV components, or glass bottles have been observed.

## d. DOSING & ADMINISTRATION

See Section 7.0 Treatment Plan

Nivolumab injection is to be administered as a 30 minute IV infusion through a 0.2 micron to 1.2 micron pore size, low-protein binding membrane in-line filter. DO NOT administer as IV push or bolus injection.

- e. HOW SUPPLIED
  - 1. Nivolumab Injection is a clear to opalescent, colorless to pale yellow liquid; light (few) particulates may be present. The drug product is a sterile, nonpyrogenic, single-use, isotonic aqueous



solution formulated in sodium citrate, sodium chloride, mannitol, diethylenetriaminepentacetic acid (pentetic acid) and polysorbate 80 (Tween® 80), pH 6.0.

 Nivolumab is supplied by Bristol-Myers Squibb and distributed by the Pharmaceutical Management Branch, CTEP/DCTD/NCI.
 Nivolumab will be supplied as 100 mg vials (10 mg/mL) with a 0.7mL overfill. It is supplied in 10 mL type I flint glass vials, with butyl rubber stoppers and aluminum seals.

## f. STORAGE, PREPARATION & STABILITY

- 1. Vials of nivolumab injection must be stored at 2°-8°C (36°-46°F) and protected from light, freezing and shaking.
- Nivolumab injection can be infused undiluted (10 mg/mL) or diluted with 0.9% Sodium Chloride Injection, USP or 5% Dextrose, USP to drug concentrations no less than 0.35 mg/mL. Note: Mix gently. Do not shake.
- Compatibility: no incompatibilities between nivolumab and polyvinyl chlorie (PVC), nonPVC/non DEHP (di(2ethylhexyl)phthalate) IV components, or glass bottles have been observed.
- 4. Stability: Shelf-life stability studies of the intact vials are ongoing.

The administration of undiluted and diluted solutions of nivolumab must be completed within 24 hours of preparation. If not used immediately, the infusion solution may be stored up to 24 hours in a refrigerator at 2°-8°C (36°-46°F) and a maximum of 4 hours of the total 24 hours can be at room temperature (20°-25°C, 68°-77°F) and room light. The maximum 4-hour period under room temperature and room light conditions includes the product administration period.

CAUTION: The single-use dosage form contains no antibacterial preservative or bacteriostatic agent. Therefore, it is advised that the product be discarded 8 hours after initial entry.

- g. DRUG ORDERING & ACCOUNTABILITY
  - Drug ordering: Study specific supplies will be provided to sites 1. once a patient has been randomized. Starter supplies will not be provided. NCI-supplied agents may be requested by the Principal Investigator (or their authorized designee) at each participating institution. Pharmaceutical Management Branch (PMB) policy requires that drug be shipped directly to the institution where the patient is to be treated. PMB does not permit the transfer of agents between institutions (unless prior approval from PMB is obtained). The CTEP assigned protocol number (S1400I) must be used for ordering all CTEP supplied investigational agents. The responsible investigator at each participating institution must be registered with CTEP, DCTD through an annual submission of FDA Form 1572 and a CV. If there are several participating investigators at one institution, CTEP-supplied investigational agents for the study should be ordered under the name of one lead investigator at that



institution. Active CTEP-registered investigators and investigatordesignated shipping designees and ordering designees can submit agent requests through the PMB Online Agent Order Processing (OAOP) application <https://eappsctep.nci.nih.gov/OAOP/pages/login.jspx>. Access to OAOP requires the establishment of a CTEP Identity and Access Management (IAM) account <https://eapps-ctep.nci.nih.gov/iam/> and the maintenance of an "active" account status and a "current" password. For questions about drug orders, transfers, returns, or accountability, call 240/276-6575 Monday through Friday between 8:30 am and 4:30 pm (ET) or email PMBAfterHours@mail.nih.gov anytime.

- 2. Drug Handling and Accountability (NCI logs or other)
  - a. Drug Accountability: The investigator, or a responsible party designated by the investigator, must maintain a careful record of the receipt, disposition, and return of all drugs received from the PMB using the Drug Accountability Record Form available on the NCI home page (http://ctep.cancer.gov).
  - b. Electronic logs are allowed as long as a print version of the log process is the exact same appearance as the current NCI DARF. If the trial is a placebo control trial – indicate that separate DARFs are needed for each patient to also include the placebo drug supply.
- 3. Drug return and/or disposition instruction (include forms if needed)
  - a. All undispensed drug supplies should be returned to the PMB. When it is necessary to return study drug (e.g., sealed bottles remaining when PMB sends a stock recovery letter), investigators should return the study drug to the PMB using the NCI Return Agent Form available on the NCI home page (http://ctep.cancer.gov).
  - b. Drug expiration: (If packaging does not have expiration date, check with drug ordering designee and/or PI at site to confirm receipt of ongoing stability testing letter from NCI when internal drug audits are being performed on a quarterly basis. If packaging has expiration date, indicate drug expiration date on the DARF under Manufacturer and Lot # and use the drug lots with shorter expiration date first).
- 4. Contact Information

Questions about drug orders, transfers, returns or accountability should be addressed to the PMB by calling 240/276-6575 Monday through Friday between 8:30 am and 4:30 pm Eastern Time.



## 3.2 Ipilimumab (BMS-734016, MDX-010, YERVOY®) (NSC 732442) (IND-119672)

a. PHARMACOLOGY

<u>Mechanism of Action</u>: Cytotoxic T-lymphocyte antigen-4 CTLA-4 is a negative regulator of T-cell activity. Ipilimumab is a full human monoclonal immunoglobin (Ig) antibody that binds to CTLA-4 and blocks the interaction of CTLA-4 with its ligands, CD80/CD86. Blockade of CTLA-4 has been shown to augment T-cell activation and proliferation, including the activation and proliferation of tumor infiltrating T-effector cells. Inhibition of CTLA-4 signaling can also reduce T-regulatory cell function, which may contribute to a general increase in T cell responsiveness, including the anti-tumor immune response.

## b. PHARMACOKINETICS

- 1. <u>Absorption</u>: No formal pharmacokinetic drug interaction studies have been conducted with ipilimumab. Ipilimumab is not expected to have pharmacokinetic drug-drug interactions, since it is not metabolized by CYP450 or other drug metabolizing enzymes.
- 2. <u>Distribution</u>: Ipilimumab is confined mainly to the extracellular fluid. Peak concentration (Cmax), trough concentration (Cmin), and area under the plasma concentration versus time curve (AUC) of ipilimumab increased dose proportionally within the dose range examined ipilimumab is confined mainly to the extracellular fluid. Peak concentration (Cmax), trough concentration (Cmin), and area under the plasma concentration versus time curve (AUC) of ipilimumab increased dose proportionally within the dose range examined. Based on population pharmacokinetic analysis, the mean volume of distribution (% coefficient of variation) at steady state was 7.47 liters (10%)
- 3. <u>Metabolism</u>: Not applicable. Monoclonal antibodies are usually degraded into amino acids and small peptides, independently from CYP450 or other drug-metabolizing enzymes.
- 4. <u>Elimination</u>: Clearance increased with body weight, but no dose adjustment is required with dosing on a mg/kg basis. Upon repeated dosing every 3 weeks, the clearance (CL) of ipilimumab was found to be time-invariant, and systemic accumulation was 1.5-fold or less. The mean value (% coefficient of variation) generated through population pharmacokinetic analysis for the terminal half-life (t1/2) was 15.4 days (34%) and for CL was 16.8 mL/h (38%).

## c. ADVERSE EFFECTS

1. <u>Adverse Effects</u>: The Comprehensive Adverse Events and Potential Risks list (CAEPR) provides a single list of reported and/or potential adverse events (AE) associated with an agent using a uniform presentation of events by body system. Refer to the 'CTEP, NCI Guidelines: Adverse Event Reporting Requirements'



http://ctep.cancer.gov/protocolDevelopment/electronic\_applicatio ns/docs/aeguidelines.pdf for further clarification. Frequency is provided based on 2678 patients. Below is the CAEPR for lpilimumab (MDX-010).

## Version 2.8, December 21, 2016<sup>1</sup>

Likely (>20%)         Less Likely (<=20%)	Adverse Events with Possible Relationship to Ipilimumab (MDX-010) (CTCAE 4.0 Term) [n= 2678]			
Blood and         Implaition         CARDIAC DISORDERS         Atrial fibrillation         Atrial fibrillation         Myocarditis <sup>2</sup> EAR AND LABYRINTH DISORDERS         Hearing impaired         ENDOCRINE DISORDERS         Adrenal insufficiency <sup>2</sup> Endocrine disorders -         Other (hypopituitarism/         hypophysitis) <sup>2</sup> Endocrine disorders -         Other (testosterone         deficiency) <sup>2</sup> Hyperthyroidism <sup>2</sup> Hypothyroidism <sup>2</sup> EYE DISORDERS         Eye disorders - Other         (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis <sup>2</sup> Colonic         perforation <sup>3</sup> Constipation         Diarrhea         Enterocolitis         Esophagitis         Ileus         Nausea	Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
Image:	BLOOD AND LYMPHATIC	SYSTEM DISORDERS		
Atrial fibrillation       Myocarditis <sup>2</sup> EAR AND LABYRINTH DISORDERS       Hearing impaired         ENDOCRINE DISORDERS       Adrenal insufficiency <sup>2</sup> Endocrine disorders - Other (hypopituitarism/ hypophysitis) <sup>2</sup> Endocrine disorders - Other (testosterone deficiency) <sup>2</sup> Hyperthyroidism <sup>2</sup> Hyperthyroidism <sup>2</sup> Hypothyroidism <sup>2</sup> Hypothyroidism <sup>2</sup> EYE DISORDERS       Eye disorders - Other (episcleritis) <sup>2</sup> GASTROINTESTINAL DISORDERS       Abdominal pain         Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Diarrhea       Enterocolitis         Esophagitis       Ileus			lymphatic system disorders - Other (acquired	
EAR AND LABYRINTH DISORDERS         Hearing impaired         ENDOCRINE DISORDERS         Adrenal insufficiency <sup>2</sup> Endocrine disorders - Other (hypopituitarism/ hypophysitis) <sup>2</sup> Endocrine disorders - Other (testosterone deficiency) <sup>2</sup> Hyperthyroidism <sup>2</sup> Hypothyroidism <sup>2</sup> EYE DISORDERS         Eye disorders - Other (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS         Abdominal pain Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Constipation         Diarrhea         Enterocolitis         Esophagitis	CARDIAC DISORDERS	1		
EAR AND LABYRINTH DISORDERS         Hearing impaired         ENDOCRINE DISORDERS         Adrenal insufficiency <sup>2</sup> Endocrine disorders - Other (hypopituitarism/ hypophysitis) <sup>2</sup> Endocrine disorders - Other (testosterone deficiency) <sup>2</sup> Hyperthyroidism <sup>2</sup> Hypothyroidism <sup>2</sup> EYE DISORDERS         Eye disorders - Other (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Constipation         Diarrhea         Enterocolitis         Esophagitis         Ileus		Atrial fibrillation		
Hearing impaired         ENDOCRINE DISORDERS         Adrenal insufficiency <sup>2</sup> Endocrine disorders - Other (hypopituitarism/ hypophysits) <sup>2</sup> Endocrine disorders - Other (testosterone deficiency) <sup>2</sup> Hyperthyroidism <sup>2</sup> Hyperthyroidism <sup>2</sup> EYE DISORDERS         Eye disorders - Other (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS         Abdominal pain Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Constipation         Diarrhea         Enterocolitis         Esophagitis         Ileus			Myocarditis <sup>2</sup>	
ENDOCRINE DISORDERS         Adrenal insufficiency <sup>2</sup> Endocrine disorders -         Other (hypopituitarism/         hypophysitis) <sup>2</sup> Endocrine disorders -         Other (testosterone         deficiency) <sup>2</sup> Hyperthyroidism <sup>2</sup> Hypothyroidism <sup>2</sup> EYE DISORDERS         Eye disorders - Other (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis <sup>2</sup> Colonic         perforation <sup>3</sup> Constipation         Diarrhea         Enterocolitis         Esophagitis         Ileus	EAR AND LABYRINTH DI	1		
Adrenal insufficiency <sup>2</sup> Endocrine disorders - Other (hypopituitarism/ hypophysits) <sup>2</sup> Endocrine disorders - Other (testosterone deficiency) <sup>2</sup> Hyperthyroidism <sup>2</sup> Hyperthyroidism <sup>2</sup> EYE DISORDERS         Eye disorders - Other (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Diarrhea         Enterocolitis         Esophagitis         Ileus				
Endocrine disorders - Other (hypopituitarism/ hypophysitis)²         Endocrine disorders - Other (testosterone deficiency)²         Hyperthyroidism²         EYE DISORDERS         Eye disorders - Other (episcleritis)²         Uveitis²         GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis²         Colonic perforation³         Diarrhea         Enterocolitis         Intercolitis         Intercolitis <td>ENDOCRINE DISORDERS</td> <td></td> <td></td>	ENDOCRINE DISORDERS			
Other (hypopituitarism/ hypophysitis)²         Endocrine disorders - Other (testosterone deficiency)²         Hyperthyroidism²         EYE DISORDERS         Eye disorders - Other (episcleritis)²         Uveitis²         GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis²         Colonic perforation³         Diarrhea         Enterocolitis         Esophagitis         Ileus				
Other (testosterone deficiency)²         Hyperthyroidism²         Hypothyroidism²         EYE DISORDERS         Eye disorders - Other (episcleritis)²         Uveitis²         GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis²         Colonic perforation³         Diarrhea         Enterocolitis         Esophagitis         Illeus         Nausea		Other (hypopituitarism/ hypophysitis) <sup>2</sup>		
Hypothyroidism <sup>2</sup> EYE DISORDERS         Eye disorders - Other (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Diarrhea         Enterocolitis         Esophagitis         Illeus         Nausea		Other (testosterone deficiency) <sup>2</sup>		
EYE DISORDERS       Eye disorders - Other (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS       Abdominal pain         Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Constipation       Diarrhea         Enterocolitis       Esophagitis         Illeus       Nausea				
Eye disorders - Other (episcleritis) <sup>2</sup> Uveitis <sup>2</sup> GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Constipation         Diarrhea         Enterocolitis         Esophagitis         Illeus         Nausea		Hypothyroidism <sup>2</sup>		
(episcleritis)²         Uveitis²         GASTROINTESTINAL DISORDERS         Abdominal pain         Colitis²         Colonic         perforation³         Constipation         Diarrhea         Enterocolitis         Esophagitis         Illeus         Nausea	EYE DISORDERS	<b>T</b>		
GASTROINTESTINAL DISORDERS Abdominal pain Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Constipation Diarrhea Enterocolitis Esophagitis Illeus Nausea		(episcleritis) <sup>2</sup>		
Abdominal pain       Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Constipation       Diarrhea       Enterocolitis       Esophagitis       Illeus       Nausea				
Colitis <sup>2</sup> Colonic perforation <sup>3</sup> Constipation     Diarrhea       Enterocolitis     Ileus       Nausea     Ileus	GASTROINTESTINAL DIS			
Colonic perforation <sup>3</sup> Constipation       Diarrhea       Enterocolitis       Esophagitis       Illeus       Nausea				
perforation <sup>3</sup> Constipation       Diarrhea       Enterocolitis       Esophagitis       Ileus       Nausea		Colitis <sup>2</sup>		
Diarrhea Enterocolitis Esophagitis Ileus Nausea				
Enterocolitis       Esophagitis       Illeus       Nausea		Constipation		
Esophagitis Ileus Nausea	Diarrhea			
Nausea Ileus				
		Esophagitis	lleus	
	Nausea			
		Pancreatitis <sup>2</sup>		
Vomiting				



Adverse Events with Possible Relationship to Ipilimumab (MDX-010) (CTCAE 4.0 Term) [n= 2678]			
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
GENERAL DISORDERS	1	SITE CONDITION	
	Chills		
Fatigue			
	Fever Infusion related		
	reaction		
		Multi-organ failure	
HEPATOBILIARY DISOR	DERS		
	Hepatobiliary disorders – Other (hepatitis) <sup>2</sup>		
IMMUNE SYSTEM DISOR	DERS		
	Autoimmune disorder <sup>2</sup>		
		Immune System Disorders-Other (GVHD in the setting of allotransplant)	
INFECTIONS AND INFES	TATIONS		
		Infections and infestations - Other (aseptic meningitis) <sup>2</sup>	
INVESTIGATIONS			
	Alanine aminotransferase increased Aspartate		
	aminotransferase		
	Neutrophil count decreased		
METABOLISM AND NUTR	1		
	Anorexia		
	Dehydration		
 	Hyperglycemia	Metabolism and	
		nutrition disorders - Other (exacerbation of pre-existing diabetes mellitus)	
MUSCULOSKELETAL AN	D CONNECTIVE TISSUE	,	
	Arthralgia		
	Arthritis		
	Musculoskeletal and connective tissue disorder - Other (polymyositis) <sup>2</sup>		



Adverse Events with Possible Relationship to Ipilimumab (MDX-010) (CTCAE 4.0 Term) [n= 2678]			
Likely (>20%)	Less Likely (<=20%)	Rare but Serious (<3%)	
NERVOUS SYSTEM DISC	RDERS		
	Facial nerve disorder		
	Headache		
	Nervous system		
	disorders - Other		
	(Guillain-Barre		
	syndrome) <sup>2</sup>		
	Nervous system disorders - Other		
	(myasthenia gravis) <sup>2</sup>		
	Trigeminal nerve disorder		
RENAL AND URINARY DI			
	Acute kidney injury		
	Renal and urinary		
	disorders - Other		
	(granulomatous		
	tubulointerstitial nephritis)		
RESPIRATORY, THORAC	IC AND MEDIASTINAL DIS	SORDERS	
	Pneumonitis		
		Respiratory,	
		thoracic and	
		mediastinal	
		disorders - Other	
		(bronchiolitis obliterans with	
		organizing	
		pneumonia)	
SKIN AND SUBCUTANEO		pricumonia)	
		Erythema	
		multiforme	
	Pruritus		
Rash maculo-papular			
	Skin and subcutaneous		
	disorders – Other		
	(Sweet's Syndrome)		
		Stevens-	
		Johnson	
		syndrome	
		Toxic epidermal	
	1 Julia a da	necrolysis	
	Urticaria		
VASCULAR DISORDERS	11. m = 4 = m = 1 = m		
	Hypotension		



- <sup>1</sup> This table will be updated as the toxicity profile of the agent is revised. Updates will be distributed to all Principal Investigators at the time of revision. The current version can be obtained by contacting PIO@CTEP.NCI.NIH.GOV. Your name, the name of the investigator, the protocol and the agent should be included in the e-mail.
- <sup>2</sup> Ipilimumab can result in severe and fatal immune-mediated adverse events probably due to T-cell activation and proliferation. These can include (but are not limited to) autoimmune hemolytic anemia, acquired anti-factor VIII autoimmune immune response, aseptic meningitis, autoimmune hepatitis, autoimmune thyroiditis, hepatic failure, pure red cell aplasia, pancreatitis, ulcerative and hemorrhagic colitis, endocrine disorders (e.g., autoimmune thyroiditis, hypothyroidism, hyperthyroidism. autoimmune hypophysitis/hypopituitarism, and adrenal insufficiency), ocular manifestations (e.g., uveitis, iritis, conjunctivitis, blepharitis, and episcleritis), sarcoid granuloma, myasthenia gravis, polymyositis, and Guillain-Barre syndrome. The majority of these reactions manifested early during treatment; however, a minority occurred weeks to months after discontinuation of ipilimumab especially with the initiation of additional treatments.
- <sup>3</sup> Late bowel perforations have been noted in patients receiving MDX-010 (ipilimumab) in association with subsequent IL-2 therapy.
- <sup>4</sup> Complications including hyperacute graft-versus-host disease (GVHD), may occur in patients receiving allo stem cell transplant (SCT) after receiving Ipilimumab (MDX-010). These complications may occur despite intervening therapy between receiving Ipilimumab (MDX-010) and allo-SCT.
- <sup>5</sup> In rare cases diplopia (double vision) has occurred as a result of muscle weakness (Myasthenia gravis).
- <sup>6</sup> Gastrointestinal hemorrhage includes Anal hemorrhage, Cecal hemorrhage, Colonic hemorrhage, Duodenal hemorrhage, Esophageal hemorrhage, Esophageal varices hemorrhage, Gastric hemorrhage, Hemorrhoidal hemorrhage, lleal hemorrhage, Intra-abdominal hemorrhage, Jeiunal Lower gastrointestinal hemorrhage, hemorrhage. Oral hemorrhage, Pancreatic hemorrhage, Rectal hemorrhage, Retroperitoneal hemorrhage, and Upper gastrointestinal hemorrhage under the GASTROINTESTINAL DISORDERS SOC.
- <sup>7</sup> Infection includes all 75 sites of infection under the INFECTIONS AND INFESTATIONS SOC.

Adverse events reported on Ipilimumab (MDX-010) trials, but for which there is insufficient evidence to suggest that there was a reasonable possibility that Ipilimumab (MDX-010) caused the adverse event:



**BLOOD AND LYMPHATIC SYSTEM DISORDERS** - Anemia; Blood and lymphatic system disorders - Other (pure red cell aplasia)<sup>2</sup>; Febrile neutropenia

**CARDIAC DISORDERS** - Conduction disorder; Restrictive cardiomyopathy

**EYE DISORDERS** - Extraocular muscle paresis<sup>5</sup>; Eye disorders - Other (retinal pigment changes)

**GASTROINTESTINAL DISORDERS** - Dyspepsia; Dysphagia; Gastrointestinal hemorrhage<sup>6</sup>

GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS - Flu like symptoms; Non-cardiac chest pain

HEPATOBILIARY DISORDERS - Hepatic failure<sup>2</sup>

IMMUNE SYSTEM DISORDERS - Allergic reaction

**INFECTIONS AND INFESTATIONS** - Infection<sup>7</sup>

**INVESTIGATIONS** - Creatinine increased; Investigations - Other (rheumatoid factor); Lipase increased; Platelet count decreased; Serum amylase increased; Weight loss; White blood cell decreased

MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS - Back pain; Joint range of motion decreased; Myalgia; Pain in extremity

NEOPLASMS BENIGN, MALIGNANT AND UNSPECIFIED (INCL CYSTS AND POLYPS) - Tumor pain

**NERVOUS SYSTEM DISORDERS** - Dizziness; Dysphasia; Ischemia cerebrovascular; Peripheral motor neuropathy; Peripheral sensory neuropathy; Seizure

**PSYCHIATRIC DISORDERS** - Anxiety; Confusion; Depression; Insomnia

**RENAL AND URINARY DISORDERS** - Proteinuria

RESPIRATORY,THORACICANDMEDIASTINALDISORDERS - Allergic rhinitis; Cough; Dyspnea; LaryngospasmSKIN AND SUBCUTANEOUS TISSUE DISORDERS - Alopecia,

Dry skin; Hyperhidrosis; Skin hypopigmentation

**VASCULAR DISORDERS** - Flushing; Hypertension; Vascular disorders - Other (temporal arteritis)

**Note**: Ipilimumab (MDX-010) in combination with other agents could cause an exacerbation of any adverse event currently known to be caused by the other agent, or the combination may result in events never previously associated with either agent.

2. <u>Pregnancy and Lactation</u>: There are no adequate and wellcontrolled studies of Ipilimumab in pregnant women. Use of Ipilimumab during pregnancy only if the potential benefit justifies the potential risk to the fetus. Human IgG1 is known to cross the placental barrier and ipilimumab is an IgG1; therefore, ipilimumab has the potential to be transmitted from the mother to the developing fetus.



It is not known whether ipilimumab is secreted in human milk. Because many drugs are secreted in human milk and because of the potential for serious adverse reactions in nursing infants from ipilimumab, a decision should be made whether to discontinue nursing or to discontinue ipilimumab, taking into account the importance of ipilimumab to the mother.

3. <u>Drug Interactions</u>: No formal pharmacokinetic drug interaction studies have been conducted with ipilimumab. Ipilimumab is not expected to have pharmacokinetic drug-drug interactions, since it is not metabolized by CYP450 or other drug metabolizing enzymes

## d. DOSING & ADMINISTRATION

See <u>Section 7.0</u> Treatment Plan.

Ipilimumab injection is to be administered as an infusion with an in-line, sterile, nonpyrogenic, low-protein-binding filter (pore size of 0.2 micrometer to 1.2 micrometer). Do not administer as IV push or bolus injection.

## e. HOW SUPPLIED

- 1. Ipilimumab will be supplied free of charge by Bristol-Myers-Squibb (BMS) and distributed by NCI/DCTD/CTEP.
- 2. Ipilimumab injection is supplied as 200 mg/40 mL (5 mg/mL). It is formulated as a clear to slightly opalescent, colorless to pale yellow, sterile, nonpyrogenic, single-use, isotonic aqueous solution that may contain particles.

Each vial is a Type I flint glass vial with gray butyl stoppers and sealed with aluminum seals.

	Process C
Component	200 mg/ vialª
Ipilimumab	213 mg
Sodium Chloride, USP	249 mg
TRIS-hydrochloride	134.3 mg
Diethylenetriamine pentacetic acid	1.67 mg
Mannitol, USP	426 mg
Polysorbate 80 (plant-derived)	4.69 mg
Sodium Hydroxide	QS to pH 7
Hydrochloric acid	QS to pH 7
Water for Injection	QS: 42.6 mL
Nitrogen <sup>b</sup>	Processing agent

<sup>a</sup> Includes 2.6 mL overfill.

<sup>b</sup> Nitrogen is used to transfer the bulk solution through the pre-filled and sterilizing filters into the aseptic area.



# f. STORAGE, PREPARATION& STABILITY

- 1. Store intact vials of ipilimumab refrigerated at (2<sup>o</sup> to 8<sup>o</sup>C), protected from light. Do not freeze.
- 2. Ipilimumab is given undiluted or further diluted in 0.9% NaCl Injection, USP or 5% Dextrose Injection, USP in concentrations between 1 mg/mL and 4 mg/mL. Ipilimumab is stable in a polyvinyl chloride(PVC), non-PVC/non DEHP (di-(2-ethylhexyl) phthalate) IV bag or glass container up to 24 hours refrigerated at (2° to 8°C) or at room temperature/room light.
- 3. The product may be infused using a volumetric pump at the protocol-specific dose(s) and rate(s) through a PVC IV solution infusion set with an in-line, sterile, nonpyrogenic, low-protein-binding filter (pore size of 0.2 micrometer to 1.2 micrometer).
- 4. Do not administer ipilimumab as an IV push or bolus injection.
- 5. Stability of prepared IV ipilimumab solution is stable up to 24 hours refrigerated at (2<sup>o</sup> to 8<sup>o</sup>C) or at room temperature/ room light.
- 6. Partially used vials or empty vials of ipilimumab injection should be discarded at the site according to appropriate drug disposal procedures.

#### g. DRUG ORDERING & ACCOUNTABILITY

1. Drug ordering: Study specific supplies will be provided to sites once a patient has been randomized. Starter supplies will not be provided. NCI-supplied agents may be requested by the Principal Investigator (or their authorized designee) at each participating institution. Pharmaceutical Management Branch (PMB) policy requires that drug be shipped directly to the institution where the patient is to be treated. PMB does not permit the transfer of agents between institutions (unless prior approval from PMB is obtained). The CTEP assigned protocol number (S1400I) must be used for ordering all CTEP supplied investigational agents. The responsible investigator at each participating institution must be registered with CTEP, DCTD through an annual submission of FDA Form 1572 and a CV. If there are several participating investigators at one institution, CTEP-supplied investigational agents for the study should be ordered under the name of one lead investigator at that institution. Active CTEP-registered investigators and investigatordesignated shipping designees and ordering designees can submit agent requests through the PMB Online Agent Order Processing (OAOP) application

<https://eapps-ctep.nci.nih.gov/OAOP/pages/login.jspx>.

Access to OAOP requires the establishment of a CTEP Identity and Access Management (IAM) account

<a href="https://eapps-ctep.nci.nih.gov/iam/">https://eapps-ctep.nci.nih.gov/iam/</a> and the maintenance of an "active" account status and a "current" password. For questions



about drug orders, transfers, returns, or accountability, call 240/276-6575 Monday through Friday between 8:30 am and 4:30 pm (ET) or email PMBAfterHours@mail.nih.gov anytime.

- 2. Drug Handling and Accountability (NCI logs or other)
  - a. Drug Accountability: The investigator, or a responsible party designated by the investigator, must maintain a careful record of the receipt, disposition, and return of all drugs received from the PMB using the Drug Accountability Record Form available on the NCI home page (http://ctep.cancer.gov).
  - b. Electronic logs are allowed as long as a print version of the log process is the exact same appearance as the current NCI DARF. If the trial is a placebo control trial – indicate that separate DARFs are needed for each patient to also include the placebo drug supply.
- 3. Drug return and/or disposition instruction
  - a. <u>Drug Returns</u>: All unused drug supplies should be returned to the PMB. When it is necessary to return study drug (e.g., sealed vials remaining when expired vials are recalled by the PMB), investigators should return the study drug to the PMB using the NCI Return Agent Form available on the NCI home page (http://ctep.cancer.gov).
  - b. <u>Drug Expiration</u>: Shelf life stability studies of the intact vials of ipilimumab are on-going

## 4.0 STAGING CRITERIA

See <u>Section 4.0</u> of <u>S1400</u> for staging criteria.



# 5.0 ELIGIBILITY CRITERIA

Patient must meet the eligibility criteria below to be eligible for <u>S14001</u>. If the patient does not meet the eligibility criteria listed in <u>Section 5.0</u> of <u>S14001</u>, submit the <u>S1400</u> Notice of Intention Not to Register form and follow patient per Section 7.4 of <u>S1400</u>. Any potential eligibility issues should be addressed to the Data Operations Center in Seattle at S1400question@crab.org prior to registration.

#### SWOG Patient No.

Patient's Initials (L, F, M) \_\_\_\_\_

- 5.1 Sub-Study Specific Disease Related Criteria
- a. Patients must have been assigned to **<u>S1400I</u>**.
- b. Patients must not have had prior treatment with an anti-PD-1, anti-PD-L1, anti-PD-L2, anti-CTLA-4 antibody, or any other antibody or drug specifically targeting T-cell costimulation or immune checkpoint pathways.
- c. Patients must not have an active, known, or suspected autoimmune disease. Patients are permitted to enroll if they have vitiligo, type I diabetes mellitus, hypothyroidism only requiring hormone replacement, psoriasis not requiring systemic treatment, or conditions not expected to recur in the absence of an external trigger.
- 5.2 Sub-Study Specific Clinical/Laboratory Criteria
- \_\_\_\_\_ a. Patients must not have any known allergy or reaction to any component of the nivolumab and ipilimumab formulations.
- b. Patients must not have received systemic treatment with corticosteroids (> 10 mg daily prednisone or equivalent) or other immunosuppressive medications within 14 days prior to sub-study registration. Inhaled or topical steroids, and adrenal replacement doses ≤ 10 mg daily prednisone or equivalent are permitted in the absence of active autoimmune disease.
- c. Patients must not have a known positive test for hepatitis B virus surface antigen (HBV sAg) or hepatitis C virus ribonucleic acid (HCV antibody) indicating acute or chronic infection. Patients with a positive hepatitis C antibody with a negative viral load are allowed. [*This criterion replaces common eligibility criteria in Section 5.3m.*]
- Patients must not have known history of testing positive for human immunodeficiency virus (HIV) or known acquired immunodeficiency syndrome (AIDS). [*This criterion replaces common eligibility criteria in* <u>Section 5.3n</u>.]
- Patients must not have interstitial lung disease that is symptomatic or disease that may interfere with the detection or management of suspected drug-related pulmonary toxicity.
- f. Patients must also be offered participation in banking for future use of specimens as described in <u>Section 15.0</u>.



#### SWOG Patient No.

## Patient's Initials (L, F, M)

- 5.2 Sub-Study Specific Clinical/LaboratoryCriteria (contd.)
  - g. Patients must have a Lipase, Amylase, TSH with reflex Free T3/T4 performed within 7 days prior to sub-study registration. Additional timepoints are noted in Section 9.0, Study Calendar
  - h. Patients must not have any Grade III/IV cardiac disease as defined by the New York Heart Association Criteria (i.e., patients with cardiac disease resulting in marked limitation of physical activity or resulting in inability to carry on any physical activity without discomfort), unstable angina pectoris, and myocardial infarction within 6 months, or serious uncontrolled cardiac arrhythmia (see <u>Section 18.1b</u>).
    - 1. Patients with a history of congestive heart failure (CHF) or at risk because of underlying cardiovascular disease or exposure to cardiotoxic drug should have an EKG and echocardiogram performed to evaluate cardiac function as clinically indicated.
    - 2. Patients with evidence of congestive heart failure (CHF), myocardial infarction (MI), cardiomyopathy, or myositis should have a cardiac evaluation including lab tests and cardiology consultations as clinically indicated including EKG, CPK, troponin, and echocardiogram.
  - Patients who can complete PRO forms in English are required to complete a pre-study <u>S14001</u> Patient Reported Outcomes (PRO) Questionnaire and a pre-study S1400I EQ-5D Questionnaire within 14 days prior to registration (see Section 18.2 of <u>S14001</u>). NOTE: Patients enrolled to <u>S14001</u> prior to 9/1/2016 are not eligible for the PRO study.
- 5.3 Common Eligibility Criteria for all Sub-Studies

The <u>**S1400**</u> Common Eligibility Criteria have been incorporated into Section 5.0 of each sub-study for ease of reference.

 Patients whose biomarker profiling results indicate the presence of an EGFR mutation or EML4/ALK fusion are not eligible. Due to existence of approved therapies the biomarker exclusion rules are as follows:

Gene	Alteration type	Ineligible Alteration
EGFR	Substitution	L858R, T790M, A289V, G719A, S768I, G719C, R108K, G598V, R222C, L62R, L861Q, P596L, V774M
	Indel	non-frame shifting insertions or deletions between amino acids 740 and 780, in exons 19 and 20, transcript NM_005228
	Fusion	None
	Amplification	None
ALK	Substitution	None
	Indel	None
	Fusion	EML4-ALK, CLIP4-ALK, CLTC-ALK, KIF5B-ALK, NPM1-ALK, RANB2- ALK, STRN-ALK, TFG-ALK
	Amplification	None

b. Patients must have progressed (in the opinion of the treating investigator) following the most recent line of therapy.



SWOG Patient No. \_\_\_\_\_

Patient's Initials (L, F, M)

- 5.3 Common Eligibility Criteria for all Sub-Studies (contd.)
  - C. Patients must not have received any prior systemic therapy (systemic chemotherapy, immunotherapy or investigational drug) within 21 days prior to sub-study registration. Patients must have recovered (≤ Grade 1) from any side effects of prior therapy. Patients must not have received any radiation therapy within 14 days prior to sub-study registration. (See 5.3e for criteria regarding therapy for CNS metastases).
  - Patients must have measurable disease (see Section 10.1) documented \_ d. by CT or MRI. The CT from a combined PET/CT may be used to document only non-measurable disease unless it is of diagnostic quality as defined in S1400 Section 10.1c. Measurable disease must be assessed within 28 days prior to sub-study registration. Pleural effusions, ascites and laboratory parameters are not acceptable as the only evidence of disease. Non-measurable disease must be assessed within 42 days prior to sub-study registration. All disease must be assessed and documented on the Baseline Tumor Assessment Form. Patients whose only measurable disease is within a previous radiation therapy port must demonstrate clearly progressive disease (in the opinion of the treating investigator) prior to registration. See Sections 15.0 and 18.1c for guidelines and submission instructions for required central radiology review.
  - e. Patients must have a CT or MRI scan of the brain to evaluate for CNS disease within 42 days prior to sub-study registration. Patient must not have leptomeningeal disease, spinal cord compression or brain metastases unless: (1) metastases have been locally treated and have remained clinically controlled and asymptomatic for at least 14 days following treatment prior to regisitration, AND (2) patient has no residual neurological dysfunction and has been off corticosteroids for at least 24 hours prior to sub-study registration.
- f. Patients must have fully recovered from the effects of major surgery at least 14 days prior to sub-study registration.
- g. Patients must not be planning to receive any concurrent chemotherapy, immunotherapy, biologic or hormonal therapy for cancer treatment. Concurrent use of hormones for non-cancer-related conditions (e.g., insulin for diabetes and hormone replacement therapy) is acceptable.
- h. Patients must have an ANC  $\geq$  1,500/mcl, platelet count  $\geq$  100,000 mcl, and hemoglobin  $\geq$  9 g/dL obtained within 28 days prior to sub-study registration.
- i. Patients must have adequate hepatic function as defined by serum bilirubin  $\leq$  Institutional Upper Limit of Normal (IULN) and either ALT or AST  $\leq$  2 x IULN within 28 days prior to sub-study registration (if both ALT and AST are done, both must be  $\leq$  2 IULN). For patients with liver metastases, bilirubin and either ALT or AST must be  $\leq$  5 x IULN (if both ALT and AST are done, both must be  $\leq$  5 x IULN).



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Patient's Initials (L, F, M)

- 5.3 Common Eligibility Criteria for all Sub-Studies (contd.)
  - j. Patients must have a serum creatinine ≤ the IULN OR measured or calculated creatinine clearance ≥ 50 mL/min using the following Cockroft-Gault Formula:

Calculated Creatinine Clearance = (140 - age) X (actual body weight in kg) 72 x serum creatinine\*

Multiply this number by 0.85 if the patient is a female. These tests must have been performed within 28 days prior to sub-study registration.

†The kilogram weight is the patient weight with an upper limit of 140% of the IBW.

\*Actual lab serum creatinine value with a minimum of 0.8 mg/dL.

- k. Patients must have Zubrod performance status of 0-1 (see Section 10.4) documented within 28 days prior to sub-study registration.
- I. [This common eligibility criteria has been removed as it conflicts with the sub-study specific criteria in <u>Section 5.2h</u>. A place holder remains to keep consistency across all sub-studies].
- m. [This common eligibility criteria has been removed as it conflicts with the sub-study specific criteria in <u>Section 5.2c</u>. A place holder remains to keep consistency across all sub-studies]
- n. [This common eligibility criteria has been removed as it conflicts with the sub-study specific criteria in <u>Section 5.2d</u>. A place holder remains to keep consistency across all sub-studies]
- \_\_\_\_\_o. Prestudy history and physical exam must be obtained within 28 days prior to sub-study registration.
- p. No other prior malignancy is allowed except for the following: adequately treated basal cell or squamous cell skin cancer, *in situ* cervical cancer, adequately treated Stage I or II cancer from which the patient is currently in complete remission, or any other cancer from which the patient has been disease free for five years.
- q. Patients must not be pregnant or nursing. Women/men of reproductive potential must have agreed to use an effective contraceptive method. A woman is considered to be of "reproductive potential" if she has had menses at any time in the preceding 12 consecutive months. In addition to routine contraceptive methods, "effective contraception" also includes heterosexual celibacy and surgery intended to prevent pregnancy (or with a side-effect of pregnancy prevention) defined as a hysterectomy, bilateral oophorectomy or bilateral tubal ligation. However, if at any point a previously celibate patient chooses to become heterosexually active during the time period for use of contraceptive measures outlined in the protocol, he/she is responsible for beginning contraceptive measures.



SWOG Patient No.

Patient's Initials (L, F, M)

- 5.3 Common Eligibility Criteria for all Sub-Studies (contd.)
- \_\_\_\_\_ r. As a part of the OPEN registration process (see Section 13.4 for OPEN access instructions) the treating institution's identity is provided in order to ensure that the current (within 365 days) <u>date of institutional review</u> <u>board approval</u> for this study has been entered in the system.
- \_\_\_\_\_s. Patients with impaired decision-making capacity are eligible as long as their neurological or psychological condition does not preclude their safe participation in the study (e.g., tracking pill consumption and reporting adverse events to the investigator).
- t. Patients must be informed of the investigational nature of this study and must sign and give written informed consent in accordance with institutional and federal guidelines.



## 6.0 STRATIFICATION FACTORS

- 6.1 Patients will be randomized between nivolumab with or without ipilimumab using block randomization.
- 6.2 Randomization will be stratified by:
  - a. Gender (Male vs. Female)
  - b. Number of prior therapies (1 vs. 2 or more)

## 7.0 TREATMENT PLAN

For treatment or dose modification questions, please contact Drs. Scott Gettinger and Lyudmila A. Bazhenova at <u>S1400I</u>MedicalQuery@swog.org. For dosing principles or questions, please consult the SWOG Policy #38 "Dosing Principles for Patients on Clinical Trials" at http://swog.org (then click on "Policies and Manuals" under the "Visitors" menu and choose Policy 38).

7.1 Pre-Medication and Supportive Care

Premedication associated with standard drug administration and supportive care (including anti-diarrheals, antibiotics, diuretics or other medications) may be given as indicated by the current American Society of Clinical Oncology (ASCO) guidelines. Premedication for the use of prophylaxis for infusion reactions (e.g. diphenhydramine, acetaminophen, or other medications) may be given per institutional standard.

For patients that experience infusion reactions the following prophylactic premedications are recommended for future infusions: diphenhydramine 50 mg (or equivalent) and/or acetaminophen/paracetamol 325 to 1000 mg at least 30 minutes before additional nivolumab or ipilimumab administrations.

As there is potential for hepatic toxicity with nivolumab or nivolumab/ipilimumab combination, drugs with a predisposition to hepatoxicity should be used with caution in patients treated with nivolumab containing regimen.

The following medications are prohibited during the study (unless utilized to treat a drug related adverse event):

Immunosuppressive agents

Immunosuppressive doses of systemic corticosteroids

Any concurrent anti-neoplastic therapy (ie, chemotherapy, hormonal therapy, immunotherapy, extensive, non-palliative radiation therapy, or standard or investigational agents for treatment of NSCLC)



# 7.2 Treatment – Non-Match **<u>S14001</u>**

Patients will be randomized to one of the following treatment arms:

#### Arm 1: Nivolumab plus Ipilimumab

#### Arm 2: Nivolumab

#### a. Arm 1: Nivolumab plus Ipilimumab

Agent	Dose	Route	Day	Schedule*
Nivolumab (BMS-936558)	3 mg/kg	IV 30 minutes	1	Q 14 days
lpilimumab (BMS-734016)	1 mg/kg	IV 60 minutes	1	Q 42 days (q 3 cycles) **

NOTE: A cycle of treatment is 14 days.

\*\* NOTE: Ipilimumab will be administered on Day 1 of every third cycle (i.e. Cycle 1, Cycle 4, etc.) see <u>Section 9.0</u>. Note that nivolumamb must be administered first. Ipilimumab to start 30 minutes after the end of nivolumab infusion.

Patients will be weighed prior to initiation of a new cycle of treatment. Dose recalculation based on weight change must be done if the patient experiences 10% or more weight gain or weight loss from the last-dosing weight. Following preparation of the dose, the entire contents of the IV bag should be administered (see <u>Sections 3.1d</u> and <u>3.2d</u>).

Disease assessment are to take place every 6 weeks for the first year, then every 3 months. Treatment will continue until any of the criteria in <u>Section 7.3</u> is met.

#### b. Arm 2: Nivolumab

Agent	Dose	Route	Day	Schedule*
Nivolumab	3 mg/kg	IV	1	Q 14 days
(BMS-936558)		30 minutes		

\* NOTE: A cycle of treatment is 14 days.

Patients will be weighed prior to initiation of a new cycle of treatment. Dose recalculation based on weight change must be done if the patient experiences 10% or more weight gain or weight loss from the last-dosing weight. Following preparation of the dose, the entire contents of the IV bag should be administered (see <u>Sections 3.1d</u>).

Disease assessment are to take place every 6 weeks for the first year, then every 3 months. Treatment will continue until any of the criteria in Section 7.3 is met.

- 7.3 Criteria for Removal from Protocol Treatment
  - a. Progression of disease as defined in <u>Section 10.2d</u> in <u>S1400</u>. However, the patient may continue protocol treatment as long as the patient is continuing to clinically benefit from treatment in the opinion of the treating investigator. Patients should still be removed from protocol treatment for criteria below.
    - \* Upon progression, the **<u>S1400</u>** Request for New Sub-Study Assignment Form may be submitted to receive a new sub-study assignment (see <u>Section 14.0</u>).



- b. Symptomatic deterioration (as defined in <u>Section 10.2e</u> of <u>S1400</u>).
- c. Unacceptable toxicity.
- d. Treatment delay for any reason > 84 days (12 weeks) (or as noted in <u>Section 8.0</u>).
- e. The patient may withdraw from this study at any time for any reason.
- 7.4 Discontinuation of Treatment

All reasons for discontinuation of treatment must be documented in the Off Treatment Notice.

7.5 Follow-Up Period

All patients will be followed until death or 3 years after sub-study registration, whichever occurs first.

Note: Patients that enroll on a new sub-study following progression may discontinue follow-up on this sub-study and proceed per protocol of new sub-study.

## 8.0 TOXICITIES TO BE MONITORED AND DOSE MODIFICATIONS

8.1 NCI Common Terminology Criteria for Adverse Events

This study will utilize the CTCAE (NCI Common Terminology Criteria for Adverse Events) Version 4.0 for toxicity and Serious Adverse Event reporting. A copy of the CTCAE Version 4.0 can be downloaded from the CTEP home page (http://ctep.cancer.gov). All appropriate treatment areas should have access to a copy of the CTCAE Version 4.0.

- 8.2 General Considerations
  - a. No dose reductions are allowed.
  - b. The maximum dose delay for any reason is 84 days (12 weeks).
  - c. Patients on IV steroids may be switched to an equivalent dose of oral corticosteroids (e.g., prednisone) at start of tapering or earlier, once sustained clinical improvement is observed. Lower bioavailability of oral corticosteroids should be taken into account when switching to the equivalent dose of oral corticosteroids.
  - d. Cardiotoxic drugs should be avoided during the course of study treatment.
- 8.3 Dose Modifications Nivolumab and Ipilimumab, Arm 1

See <u>Section 8.8</u> for dose modification and management for cardiomyopathy myocarditis.

- a. Dose Delay Criteria for Combination Therapy with Nivolumab and Ipilimumab Nivolumab and ipilimumab administration should be delayed for the following:
  - 1. Any Grade ≥ 2 non-skin, drug-related adverse event, except for fatigue and laboratory abnormalities



2. Any Grade  $\geq$  3 skin drug-related AE

1.

- 3. Any Grade ≥ 3 drug-related laboratory abnormality with the following exceptions for lymphopenia, AST, ALT, or total bilirubin or asymptomatic amylase or lipase:
  - Grade 3 lymphopenia does not require a dose delay
  - If a patient has a baseline AST, ALT, or total bilirubin that is within normal limits, delay dosing for drug-related Grade
     2 toxicity
  - If a patient has baseline AST, ALT, or total bilirubin within the Grade 1 toxicity range, delay dosing for drug-related Grade≥ 3 toxicity
  - Any Grade ≥ 3 drug-related amylase or lipase abnormality that is not associated with symptoms or clinical manifestations of pancreatitis does not require dose delay. The Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova at S1400IMedicalQuery@swog.org should be consulted for such Grade ≥ 3 amylase or lipase abnormalities.
  - Any AE, laboratory abnormality or inter-current illness which, in the judgment of the investigator, warrants delaying the dose of study medication.
    Patients receiving ipilimumab in combination with nivolumab that have drug-related toxicities that meet the criteria for dose delay, should have both drugs (ipilimumab and nivolumab) delayed until retreatment criteria are met. (Exceptions apply to the retreatment criteria after dose delay of ipilimumab and nivolumab for Grade ≥ 3 amylase and lipase abnormalities that are not associated with symptoms or clinical manifestations of pancreatitis and that are attributed to ipilimumab alone. (Refer to Section 8.6 further details.)
- Nivolumab may be delayed until the next planned ipilimumab dose if the next ipilimumab dose is scheduled within the next 12 days. This will permit periodic ipilimumab dosing to be synchronized with nivolumab dosing.
- 3. Ipilimumab should be dosed at the specified interval regardless of any delays in intervening nivolumab doses. However, in order to maintain periodic synchronized dosing of ipilimumab and nivolumab, the dosing days of nivolumab and ipilimumab may be adjusted within the permitted +/- 5 day window, as long as consecutive nivolumab doses are given at least 12 days apart. Ipilimumab may be delayed beyond the 5 day window if needed to synchronize with the next nivolumab dose.
- 4. If an ipilimumab dose is delayed beyond 6 weeks from the prior ipilimumab dose, then subsequent ipilimumab doses should rescheduled to maintain the 6 week interval between consecutive ipilimumab doses.
- 5. A dose delay of ipilimumab which results in no ipilimumab dosing for > 12 weeks requires ipilimumab discontinuation, with exceptions as noted in <u>Section 8.6</u>.



b. Criteria to Resume Nivolumab and Ipilimumab Dosing

Patients may resume treatment with nivolumab and ipilimumab when drug-related AE(s) resolve(s) to Grade 1 or baseline value, with the following exceptions:

- 1. Patients may resume treatment in the presence of Grade 2 fatigue.
- 2. Patients who have not experienced a Grade 3 drug-related skin AE may resume treatment in the presence of Grade 2 skin toxicity.
- 3. Patients with baseline Grade 1 AST/ALT or total bilirubin who require dose delays for reasons other than a 2-grade shift in AST/ALT or total bilirubin may resume treatment in the presence of Grade 2 AST/ALT or total bilirubin.
- 4. Patients with combined Grade 2 AST/ALT and total bilirubin values meeting discontinuation parameters (<u>Sections 8.5</u> and <u>8.6</u>) should have treatment permanently discontinued.
- 5. Drug-related pulmonary toxicity, diarrhea, or colitis must have resolved to baseline before treatment is resumed.
- Patients who received systemic corticosteroids for management of any drug-related toxicity must be off corticosteroids or have tapered down to an equivalent dose of prednisone <u>+</u>10 mg/day.
- 7. Drug-related endocrinopathies adequately controlled with only physiologic hormone replacement may resume treatment after consultation with the Study Chairs, Drs. Scott Gettinger and Lyudmila A. Bazhenova (**S1400I**MedicalQuery@swog.org).
- Dose delay of ipilimumab which results in no ipilimumab dosing for > 12 weeks requires ipilimumab discontinuation, with exceptions as noted in <u>Section 6</u>
- 9. In general, patients who meet criteria to resume ipilimumab will also have met criteria to resume nivolumab, so it should be feasible to synchronize dosing of both drugs when resuming ipilimumab. In order to facilitate this, the dosing days of nivolumab and ipilimumab may be adjusted within the permitted +/- 5 day window, as long as consecutive nivolumab doses are given at least 12 days apart.
- 10. One exception to note is when ipilimumab and nivolumab doses are delayed due to drug- related Grade ≥3 amylase or lipase abnormalities not associated with symptoms or clinical manifestations of pancreatitis. If the investigator assesses the Grade ≥3 amylase or lipase abnormality to be related to ipilimumab and not related to nivolumab, nivolumab may be resumed when the amylase or lipase abnormality resolves to Grade < 3 but ipilimumab may only be resumed when the amylase or lipase abnormality resolves to Grade 1 or baseline. Investigator attribution of this toxicity to the ipilimumab dosing must be clearly noted in the patient's medical chart. The Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (S1400IMedicalQuery@swog.org) should be consulted prior to resuming</p>



## 8.4 Dose Modifications – Nivolumab, Arm 2

See <u>Section 8.8</u> for dose modification and management for cardiomyopathy myocarditis.

a. Dose Delay Criteria for Nivolumab

Nivolumab administration should be delayed for the following:

- 1. Any Grade  $\geq$  2 non-skin, drug-related adverse event, except for fatigue and laboratory abnormalities
- 2. Any Grade  $\geq$  3 skin drug-related AE
- 3. Any Grade  $\geq$  3 drug-related laboratory abnormality with the following exceptions for lymphopenia, AST, ALT, or total bilirubin or asymptomatic amylase or lipase:
  - Grade 3 lymphopenia does not require a dose delay
  - If a patient has a baseline AST, ALT, or total bilirubin that is within normal limits, delay dosing for drug-related Grade ≥ 2 toxicity
  - If a patient has baseline AST, ALT, or total bilirubin within the Grade 1 toxicity range, delay dosing for drug-related Grade≥ 3 toxicity
  - Any Grade ≥ 3 drug-related amylase or lipase abnormality that is not associated with symptoms or clinical manifestations of pancreatitis does not require dose delay. The Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova at <u>S1400I</u>MedicalQuery@swog.org should be consulted for such Grade ≥ 3 amylase or lipase abnormalities.
- Any AE, laboratory abnormality or inter-current illness which, in the judgment of the investigator, warrants delaying the dose of study medication.

Patients who require delay of nivolumab should be re-evaluated weekly or more frequently if clinically indicated and resume nivolumab dosing when re-treatment criteria are met (See below).

b. Criteria to Resume Nivolumab Dosing

Patient may resume treatment with nivolumab when the drug-related AE(s) resolve(s) to Grade  $\geq 1$  or baseline, with the following exceptions:

- 1. Patients may resume treatment in the presence of Grade 2 fatigue.
- 2. Patients who have not experienced a Grade 3 drug-related skin AE may resume treatment in the presence of Grade 2 skin toxicity.
- 3. Patients with baseline Grade 1 AST/ALT or total bilirubin who require dose delays for reasons other than a 2-Grade shift in AST/ALT or total bilirubin may resume treatment in the presence of Grade 2 AST/ALT OR total bilirubin.
- 4. Patients with combined Grade 2 AST/ALT and total bilirubin values meeting discontinuation parameters (Section 8.5.) should have treatment permanently discontinued.



- 5. Drug-related pulmonary toxicity, diarrhea, or colitis must have resolved to baseline before treatment is resumed. Patients with persistent Grade 1 pneumonitis after completion of a steroid taper over at least 1 month may be eligible for retreatment if discussed with and approved by the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova at S1400IMedicalQuery@swog.org.
- 6. Drug-related endocrinopathies adequately controlled with only physiologic hormone replacement may resume treatment after consultation with the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova at (S1400IMedicalQuery@swog.org).
- 7. Patients who delay study treatment due to any Grade ≥ 3 amylase or lipase abnormality that is not associated with symptoms or clinical manifestations of pancreatitis, and that is assessed by the investigator to be related to ipilimumab and not to nivolumab, may resume nivolumab when the amylase or lipase abnormality has resolved to Grade < 3. The Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova at S1400IMedicalQuery@swog.org should be consulted prior to resuming nivolumab in such patients.</p>
- Dose delay of nivolumab which results in treatment interruption of > 6 weeks requires treatment discontinuation, with exceptions as noted in <u>Section 8.5.</u>
- 8.5 Treatment Discontinuation Criteria Nivolumab and the Combination (Nivolumab with Ipilimumab

See <u>Section 8.8</u> for dose modification and management for cardiomyopathy myocarditis.

Treatment with nivolumab should be permanently discontinued for any of the following:

- a. Any Grade 2 drug-related uveitis or eye pain or blurred vision that does not respond to topical therapy and does not improve to Grade 1 severity within the re-treatment period OR requires systemic treatment
- Any Grade > 2 drug-related pneumonitis or interstitial lung disease that does not resolve to dose delay and systemic steroids (also see Pulmonary Adverse Event Management Algorithm);
- c. Any Grade 3 drug-related bronchospasm, hypersensitivity reaction, or infusion reaction, regardless of duration;
- d. Any Grade 3 non-skin, drug-related adverse event lasting > 7 days, with the following exceptions for uveitis, pneumonitis, bronchospasm, diarrhea, colitis, neurologic toxicity, hypersensitivity reactions, infusion reactions, endocrinopathies, and laboratory abnormalities:



- 1. Grade 3 drug-related uveitis, pneumonitis, bronchospasm, diarrhea, colitis, neurologic toxicity, hypersensitivity reaction, or infusion reaction of any duration requires discontinuation.
- 2. Grade 3 drug-related endocrinopathies adequately controlled with only physiologic hormone replacement do not require discontinuation.
- 3. Grade 3 drug-related laboratory abnormalities do not require treatment discontinuation except:
- 4. Grade 3 drug-related thrombocytopenia > 7 days or associated with bleeding requires discontinuation.
- 5. Any drug-related liver function test (LFT) abnormality that meets the following criteria require discontinuation (also see Hepatic Adverse Event Management Algorithm):
  - AST or ALT > 5-10x ULN for > 2 weeks
  - AST or ALT > 10x ULN
  - Total bilirubin > 5 x ULN
  - Concurrent AST or ALT > 3 x ULN **and** total bilirubin > 2 x ULN
- e. Any Grade 4 drug-related adverse event or laboratory abnormality, except for the following events, which do not require discontinuation:
  - 1. Grade 4 neutropenia <7 days
  - 2. Grade 4 lymphopenia or leukopenia
  - Isolated Grade 4 amylase or lipase abnormalities that are not associated with symptoms or clinical manifestations of pancreatitis and decrease to < Grade 4 within 1 week of onset. The Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (<u>S1400I</u>MedicalQuery@swog.org) should be consulted for Grade 4 amylase or lipase abnormalities
  - 4. Isolated Grade 4 electrolyte imbalances/abnormalities that are not associated with clinical sequelae and are corrected with supplementation/appropriate management within 72 hours of their onset
  - 5. Grade 4 drug-related endocrinopathy adverse events such as adrenal insufficiency, ACTH deficiency, hyper- or hypothyroidism, or glucose intolerance, which resolve or are adequately controlled with physiologic hormone replacement (corticosteroids, thyroid hormones) or glucose controlling agents, respectively, may not require discontinuation after discussion with and approval from the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (<u>S1400I</u>MedicalQuery@swog.org).
- f. Dosing delays lasting > 6 weeks from the previous dose that occur for non-drug-related reasons may be allowed if approved by the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (<u>S1400I</u>MedicalQuery@swog.org). Prior to re-initiating treatment in a patient with a dosing delay lasting > 6 weeks, the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova must be consulted. Tumor assessments should continue as per protocol even if dosing is delayed. Periodic study visits to assess safety and laboratory studies should also continue every 6 weeks or more frequently if clinically indicated during such dosing delays.



g. Any adverse event, laboratory abnormality, or intercurrent illness which, in the judgment of the Investigator, presents a substantial clinical risk to the patient with continued nivolumab dosing.

The assessment for discontinuation of nivolumab should be made separately from the assessment made for discontinuation of ipilimumab. Although there is overlap among the discontinuation criteria, if discontinuation criteria are met for ipilimumab but not for nivolumab, treatment with nivolumab may continue if ipilimumab is discontinued.

If a patient receiving combination therapy with nivolumab and ipilimumab meets criteria for discontinuation and the investigator is unable to determine whether the event is related to both or one study drug, the patient should discontinue both nivolumab and ipilimumab.

8.6 Treatment Discontinuation Criteria Ipilimumab

See <u>Section 8.8</u> for dose modification and management for cardiomyopathy myocarditis.

Ipilimumab should be permanently discontinued if any of the following criteria are met:

- a. Any Grade ≥2 drug-related uveitis or eye pain or blurred vision that does not respond to topical therapy and does not improve to Grade 1 severity within 2 weeks OR requires systemic treatment;
- b. Any Grade  $\geq$ 3 bronchospasm or other hypersensitivity reaction;
- c. Any other Grade 3 non-skin, drug-related adverse with the following exceptions for laboratory abnormalities, grade 3 nausea and vomiting, grade 3 neutropenia and thrombocytopenia, and symptomatic endocrinopathies which resolved (with or without hormone substitution);
- d. Any drug-related liver function test (LFT) abnormality that meets the following criteria require discontinuation:
  - 1. AST or ALT > 8x ULN
  - 2. Total bilirubin > 5 x ULN
  - 3. Concurrent AST or ALT > 3 x ULN and total bilirubin > 2 x ULN
- e. Any Grade 4 drug-related adverse event or laboratory abnormality, except for the following events, which do not require discontinuation:
  - 1. Grade 4 neutropenia <7 days
  - 2. Grade 4 lymphopenia or leukopenia
  - Isolated Grade 4 amylase or lipase abnormalities which are not associated with symptoms or clinical manifestations of pancreatitis. The Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (S1400IMedicalQuery@swog.org) should be consulted for Grade 4 amylase or lipase abnormalities.



- 4. Isolated Grade 4 electrolyte imbalances/abnormalities that are not associated with clinical sequelae and are corrected with supplementation/appropriate management within 72 hours of their onset
- 5. Grade 4 drug-related endocrinopathy adverse events such as adrenal insufficiency, ACTH deficiency, hyper- or hypothyroidism, or glucose intolerance, which resolve or are adequately controlled with physiologic hormone replacement (corticosteroids, thyroid hormones) or glucose controlling agents, respectively, may not require discontinuation after discussion with and approval from the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (**S1400I**MedicalQuery@swog.org).
- f. Any treatment delay resulting in no ipilimumab dosing for > 12 weeks with the following exceptions: Dosing delays to manage drug-related adverse events, such as prolonged steroid tapers, are allowed. Prior to re-initiating treatment in a patient with a dosing delay lasting > 12 weeks, the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (<u>S1400I</u>MedicalQuery@swog.org) must be consulted. Tumor assessments should continue as per protocol even if dosing is delayed.
- g. Dosing delays resulting in no ipilimumab dosing for > 12 weeks that occur for non-drug- related reasons may be allowed if approved by the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (<u>S1400I</u>MedicalQuery@swog.org). Prior to re- initiating treatment in a patient with a dosing delay lasting > 12 weeks, the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova must be consulted. Tumor assessments should continue as per protocol even if dosing is delayed.
- h. Any adverse event, laboratory abnormality, or intercurrent illness which, in the judgment of the Investigator, presents a substantial clinical risk to the patient with continued nivolumab dosing

The assessment for discontinuation of ipilimumab should be made separately from the assessment made for discontinuation of nivolumab. Although there is overlap among the discontinuation criteria, if discontinuation criteria are met for ipilimumab but not for nivolumab, treatment with nivolumab may continue if ipilimumab is discontinued.

If a patient receiving combination therapy with nivolumab and ipilimumab meets criteria for discontinuation and the investigator is unable to determine whether the event is related to both or one study drug, the patient should discontinue both nivolumab and ipilimumab.

8.7. Treatment of Nivolumab or Ipilimumab Infusion Reactions

Since nivolumab and ipilimumab contain only human immunoglobulin protein sequences, they are unlikely to be immunogenic and induce infusion or hypersensitivity reactions. However, if such a reaction were to occur, it might manifest with fever, chills, rigors, headache, rash, pruritus, arthralgias, hypo- or hypertension, bronchospasm, or other symptoms. All Grade 3 or 4 infusion reactions should be reported within 24 hours to the Study Chairs, Drs Scott Gettinger and Lyudmila A. Bazhenova (**S1400I**MedicalQuery@swog.org) and reported as an SAE if criteria are met. Infusion reactions should be graded according to NCI CTCAE (Version 4.0) guidelines.



Treatment recommendations are provided below and may be modified based on local treatment standards and guidelines, as appropriate:

a. For Grade 1:

Remain at bedside and monitor subject until recovery from symptoms. The following prophylactic premedications are recommended for future infusions: diphenhydramine 50 mg (or equivalent) and/or acetaminophen/paracetamol 325 to 1000 mg at least 30 minutes before additional nivolumab or ipilimumab administrations.

b. For Grade 2

Stop the nivolumab or ipilimumab infusion, begin an IV infusion of normal saline, and treat the subject with diphenhydramine 50 mg IV (or equivalent) and/or acetaminophen/paracetamol 325 to 1000 mg; remain at bedside and monitor subject until resolution of symptoms. Corticosteroid and/or bronchodilator therapy mav also be administered as appropriate. If the infusion is interrupted, then restart the infusion at 50% of the original infusion rate when symptoms resolve; if no further complications ensue after 30 minutes, the rate may be increased to 100% of the original infusion rate. Monitor subject closely. If symptoms recur, then no further nivolumab or ipilimumab will be administered at that visit. Administer diphenhydramine 50 mg IV, and remain at bedside and monitor the subject until resolution of symptoms. The amount of study drug infused must be recorded on the electronic case report form (eCRF).

For future infusions, the following prophylactic premedications are recommended: diphenhydramine 50 mg (or equivalent) and/or acetaminophen/paracetamol 325 to 1000 mg should be administered at least 30 minutes before nivolumab or ipilimumab infusions. If necessary, corticosteroids (up to 25 mg of SoluCortef or equivalent) may be used.

c. For Grade 3 or 4

Immediately discontinue infusion of nivolumab or ipilimumab. Begin an IV infusion of normal saline and treat the subject as follows: Recommend bronchodilators, epinephrine 0.2 to 1 mg of a 1:1000 solution for subcutaneous administration or 0.1 to 0.25 mg of a 1:10,000 solution injected slowly for IV administration, and/or diphenhydramine 50 mg IV with methylprednisolone 100 mg IV (or equivalent), as needed. Subject should be monitored until the investigator is comfortable that the symptoms will not recur. Nivolumab or ipilimumab will be permanently discontinued. Investigators should follow their institutional guidelines for the treatment of anaphylaxis. Remain at bedside and monitor subject until recovery of the symptoms.

In case of late-occurring hypersensitivity symptoms (eg, appearance of a localized or generalized pruritus within 1 week after treatment), symptomatic treatment may be given (eg, oral antihistamine or corticosteroids).



- 8.8 Dose Modification and Management for Cardiomyopathy Myocarditis
  - Drug will be held for Grade 2 cardiac dysfunction pending evaluation
  - Drug will be permanently discontinued for Grade 3 or 4 cardiac dysfunction and Grade 2 events that do not recover to baseline or that reoccur
  - Treatment with steroids as clinically indicated

Cardiac *	Management/Next Dose for BMS-936558 (Nivolumab) + Ipilimumab Cardiac Toxicities						
≤ Grade 1	Hold dose pending evaluation and observation.** Evaluate for signs and symptoms of CHF, ischemia, arrhythmia or myositis. Obtain history EKG, CK (for concomitant myositis), CK-MB. Repeat troponin, CK and EKG 2-3 days. If troponin and labs normalize may resume therapy. If labs worsen or symptoms develop then treat as below. Hold pending evaluation.						
Grade <u>&gt;</u> 2 with suspected myocarditis	Hold dose.** Admit to hospital. Cardiology consult. Rule out MI and other causes of cardiac disease. Cardiac Monitoring. Cardiac Echo. Consider cardiac MRI and cardiac biopsy. Initiate high dose methylprednisolone. If no improvement within 24 hours, add either infliximab, ATG or tacrolimus. Resume therapy if there is a return to baseline and myocarditis is excluded or considered unlikely.						
Grade <u>&gt;</u> 2 with confirmed myocarditis	Off protocol therapy. Admit to CCU (consider transfer to nearest Cardiac Transplant Unit). Treat as above. Consider high dose methylprednisolone. Add ATG or tacrolimus if no improvement. Off treatment.						
*Including CHF, LV systolic dysfunction, Myocarditis, CPK, and troponin **Patients with evidence of myositis without myocarditis may be treated according as "other event" Note: The optimal treatment regimen for immune mediated myocarditis has not been established. Since this toxicity has caused patient deaths, an aggressive approach is recommended.							

#### 8.9 Management Algorithms for Immuno-Oncology Agents

Immuno-oncology agents such as nivolumab and ipilimumab are associated with AEs that can differ in severity and duration than AEs caused by other therapeutic classes. Early recognition and management of AEs associated with immuno-oncology agents may mitigate severe toxicity. Management Algorithms have been developed to assist investigators in assessing and managing the following groups of AEs: (I-O).



# a. Pulmonary Adverse Event Management

Toxicity	Toxicity Management and Follow-up							
Pulmonary (i.e., Pn	eumonitis)							
Any Grade	Patients should be thoroughly evaluated to rule out non-inflammatory causes. If non-inflammatory cause treat accordingly. Evaluate with imaging and pulmonary consultation.							
<ul> <li>Monitor for symptoms every 2-3 days</li> <li>Consider Pulmonary and Infectious Disease (ID) consults</li> <li>Re-image at least every 3 weeks</li> <li>If worsens:</li> <li>Treat as Grade 2 or 3-4</li> </ul>								
Grade 2	<ul> <li>Consider Pulmonary and ID consults</li> <li>Monitor symptoms daily, consider hospitalization</li> <li>1.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li>Consider bronchoscopy, lung biopsy</li> <li>Re-image every 1-3 days         If improves:         When symptoms return to near baseline, taper steroids over at least 1 month, consider prophylactic antibiotics         If not improving after 2 weeks or worsening:         Treat as Grade 3-4     </li> </ul>							
≥ Grade 3	<ul> <li>Hospitalize</li> <li>Pulmonary and ID consults</li> <li>2-4 mg/kg/day methylprednisolone IV or oral equivalent</li> <li>Add prophylactic antibiotics for opportunistic infections</li> <li>Consider bronchoscopy, lung biopsy</li> <li><u>If improves to baseline</u>:</li> <li>Taper steroids over at least 6 weeks</li> <li><u>If not improving after 48 hours or worsening</u>:</li> <li>Add additional immunosuppression (e.g., infliximab, cyclophosphamide, intravenous immunoglobulin (IVIG), or mycophenolate mofetil)</li> </ul>							



## b. Gastrointestinal Advers

Toxicity	Toxicity Management and Follow-up								
Gastrointestinal (i.	e., Diarrhea/Colitis)								
Any Grade	Patients should be thoroughly evaluated to rule out non-inflammatory causes. If non-inflammatory cause treat accordingly. Opiates/narcotics may mask symptoms of perforation. Infliximab should not be used in cases of perforation or sepsis.								
Grade 1	<ul> <li>Close monitoring for worsening symptoms.</li> <li>Educate patient to report worsening immediately</li> <li>Consider symptomatic treatment including hydration, electrolyte replacement, dietary changes (e.g., American Dietetic Association colitis diet), and loperamide.</li> <li><u>If worsens</u>:</li> <li>Treat as Grade 2 or 3/4</li> </ul>								
Grade 2	<ul> <li>Consider symptomatic treatment including hydration, electrolyte replacement, dietary changes (e.g., American Dietetic Association colitis diet), and loperamide.</li> </ul>								
	<ul> <li><u>If persists &gt; 5-7 days or recurs</u>:</li> <li>0.5-1.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li>When symptoms improve to grade 1, taper steroids over at least 1 month, consider prophylactic antibiotics for opportunistic infections</li> <li><u>If worsens or persists &gt; 3-5 days with oral steroids</u>:</li> <li>Treat as Grade 3/4</li> </ul>								
≥ Grade 3	<ul> <li>1.0 to 2.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li>Add prophylactic antibiotics for opportunistic infections</li> <li>Consider lower endoscopy</li> <li><u>If improves</u>:</li> <li>Continue steroids until grade 1, then taper over at least 1 month</li> <li><u>If persists &gt; 3-5 days, or recurs after improvement</u>:</li> <li>Add infliximab 5 mg/kg (if no contraindication).</li> <li>Note: Infliximab should not be used in cases of perforation or sepsis</li> </ul>								



c.	Hepatic Adverse Event Management
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Toxicity	Toxicity Management								
Hepatic (Elevated I	Hepatic (Elevated LFTs – ALT, AST, Total Bilirubin)								
Any Grade	Patients should be thoroughly evaluated to rule out non-inflammatory causes. If non-inflammatory cause treat accordingly. Consider imaging for obstruction.								
Grade 1	<ul> <li>Continue liver function tests (LFT) monitoring per protocol <u>If worsens</u>:</li> <li>Treat as Grade 2 or 3/4</li> </ul>								
Grade 2	<ul> <li>Increase frequency of LFT monitoring to every 3 days until resolution to baseline. Resume routine monitoring</li> <li><u>If elevations persist &gt; 5-7 days or worsen</u>:</li> <li>0.5-1 mg/kg/day methylprednisolone IV or oral equivalent and when LFT returns to grade 1 or baseline, taper steroids over at least 1 month, consider prophylactic antibiotics for opportunistic infections</li> </ul>								
≥ Grade 3	<ul> <li>Increase frequency of LFT monitoring to every 1-2 days</li> <li>1.0 to 2.0 mg/kg/day methylprednisolone IV or oral equivalent. The recommended starting dose for Grade 4 hepatitis is 2 mg/kg/day methylprednisolone IV.</li> <li>Add prophylactic antibiotics for opportunistic infections</li> <li>Consult gastroenterologist</li> <li><u>If returns to Grade 2</u>:</li> <li>Taper steroids over at least 1 month</li> <li><u>If does not improve in &gt;3-5 days, worsens or rebounds</u>:</li> <li>Add mycophenolate mofetil 1 gram (g) twice daily (BID)</li> <li>If no response within an additional 3-5 days, consider other immunosuppressants per local guidelines</li> </ul>								



Toxicity	Toxicity Toxicity Management									
Renal (i.e., Creatinine Increased)										
Any Grade	Patients should be thoroughly evaluated to rule out non-inflammatory causes. If non-inflammatory cause treat accordingly.									
Grade 1	<ul> <li>Monitor creatinine weekly until resolution to baseline; resume routine creatinine monitoring per protocol</li> <li><u>If worsens</u>:</li> <li>Treat as Grade 2 or 3/4</li> </ul>									
Grade 2-3	<ul> <li>Monitor creatinine every 2-3 days</li> <li>0.5 to 1.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li>Consider renal biopsy</li> <li><u>If returns to Grade 1</u>:</li> <li>Taper steroids over at least 1 month, consider prophylactic antibiotics for opportunistic infections and routine creatinine monitoring per protocol</li> <li><u>If elevations persist &gt; 7 days or worsen:</u></li> <li>Treat as Grade 4</li> </ul>									
≥ Grade 4	<ul> <li>Monitor creatinine daily</li> <li>1.0-2.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li>Consult nephrologist</li> <li>Consider renal biopsy</li> <li><u>If returns to Grade 1</u>:</li> <li>Taper steroids over at least 1 month and add prophylactic antibiotics for opportunistic infections</li> </ul>									

# d. Renal Adverse Event Management



# e. Skin Adverse Event Management

Toxicity	Toxicity Management									
Skin (i.e., Rash, Mac	Skin (i.e., Rash, Macula-papular)									
Any Grade	Patients should be thoroughly evaluated to rule out non-inflammatory causes. If non-inflammatory cause treat accordingly.									
Grade 1	Consider symptomatic treatment including oral antiprurities (e.g., diphenhydramine or hydrolyzine) and topical therapy (e.g., urea cream).									
Grade 2	<ul> <li>Consider symptomatic treatment including oral antiprurities (e.g., diphenhydramine or hydrolyzine) and topical therapy (e.g., urea cream).</li> <li><u>If persists &gt; 1-2 weeks or recurs</u>:</li> <li>Consider skin biopsy</li> <li>Consider 0.5-1.0 mg/kg/day methylprednisolone IV or oral equivalent. Once improving, taper steroids over at least 1 month, consider prophylactic antibiotics for opportunistic infections</li> <li><u>If worsens</u>:</li> <li>Treat as Grade 3/4</li> </ul>									
Grade 3	<ul> <li>Consider skin biopsy</li> <li>Dermatology Consult</li> <li>1.0-2.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li><u>If improves to Grade 1</u>:</li> <li>Taper steroids over at least 1 month and add prophylactic antibiotics for opportunistic infections</li> </ul>									
Grade 4	<ul> <li>Consider skin biopsy</li> <li>Dermatology Consult</li> <li>1.0-2.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li>If improves to Grade 1:</li> <li>Taper steroids over at least 1 month and add prophylactic antibiotics for opportunistic infections</li> </ul>									



f.

#### Endocrinopathy Adverse Event Management

Toxicity	Toxicity Management							
	ndocrine Disorders - adrenal insufficiency, ACTH deficiency, hyper- or							
	r glucose intolerance)							
Any Grade	<ul> <li>Patients should be thoroughly evaluated to rule out non-inflammatory causes. If non-inflammatory cause treat accordingly. Consider visual field testing, endocrinology consultation, and imaging.</li> <li>Monitor patients for signs and symptoms of endocrinopathies. Non-specific symptoms include headache, fatigue, behavior changes, changed mental status, vertigo, abdominal pain, unusual bowel habits, hypotension and weakness.</li> <li>Patients should be thoroughly evaluated to rule out any alternative etiology (e.g., disease progression including brain metastases, infections, etc.)</li> <li>If a patient experiences an AE that is thought to be possibly of autoimmune nature (e.g., thyroiditis, pancreatitis, hypophysitis, diabetes insipidus), the investigator should send a blood sample for appropriate autoimmune antibody testing</li> </ul>							
Grade 1	<ul> <li>(including those with asymptomatic TSH elevation)</li> <li>Monitor patient with appropriate endocrine function test</li> <li>If TSH &lt; 0.5X LLN, or TSH &gt;2X ULN or consistently out of range in 2 subsequent measurements, include FT4 at subsequent cycles as clinically indicated and consider Endocrinology Consult.</li> </ul>							
Grade 2	<ul> <li>(including those with symptomatic endocrinopathy)</li> <li>Discuss with Study Chair</li> <li>Initiate hormone replacement as needed for management</li> <li>Evaluate endocrine function, and as clinically indicated, consider pituitary scan</li> <li>For patients with abnormal lab/pituitary scan work up, consider short-term,1-2 mg/kg/day methylprednisolone IV or oral equivalent with relevant hormone therapy</li> <li>For patients with normal endocrine work up (lab or MRI scans), repeat labs in 1-3 week/MRI in 1 month.</li> <li>If improves (with or without hormone replacement):</li> <li>Taper steroids over at least 1 month and consider prophylactic antibiotics for opportunistic infections</li> <li>Patients with adrenal insufficiency may need to continue steroids with mineral corticoid component</li> <li>Suspicion of adrenal crisis (e.g., severe dehydration, hypotension, shock out of proportion to current illness)</li> <li>Discuss with Study Chair</li> <li>Rule out sepsis</li> <li>Administer stress dose of IV steroids with mineral corticoid activity</li> <li>Administer IV fluids</li> <li>Consult endocrinologist</li> <li>If adrenal crisis ruled out, then treat as above for symptomatic endocrinopathy</li> </ul>							
Grade 3	-Discuss with Study Chair							
Grade 4	<ul> <li>Initiate empiric IV corticosteroids (e.g., methylprednisolone IV or oral equivalent) at 1 to 2 mg/kg/day</li> <li>Administer hormone replacement therapy as necessary</li> <li>For adrenal crisis, severe dehydration, hypotension, or shock: immediately initiate intravenous corticosteroids with mineralocorticoid activity</li> <li>Consult endocrinologist</li> <li>Once improving, gradually taper immunosuppressive steroids over ≥4 weeks</li> </ul>							



g.	Neurological Adverse Ever	nt Management
g.		n managomon

Toxicity	Dose Toxicity Management								
Neurological Toxicity (Nervous System Disorders)									
Any Grade		Patients should be thoroughly evaluated to rule out non-inflammatory causes. If non-inflammatory cause treat accordingly.							
Grade 1	<ul> <li>Continue to mon <u>If worsens</u>:</li> <li>Treat as Grade 2</li> </ul>								
Grade 2	<ul> <li>Treat symptoms per local guidelines</li> <li>Consider 0.5 to 1.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li><u>If worsens</u>:</li> <li>Treat as Grade 3/4</li> </ul>								
≥ Grade 3	-Treat symptoms -1.0-2.0 mg/kg/da -Add prophylaction If improves to Gra -Taper steroids on If worsens or atyp	<ul> <li>- Treat as Grade 3/4</li> <li>- Obtain Neurology Consult</li> <li>- Treat symptoms per local guidelines</li> <li>- 1.0-2.0 mg/kg/day methylprednisolone IV or oral equivalent</li> <li>- Add prophylactic antibiotics for opportunistic infections</li> <li>If improves to Grade 2:</li> <li>- Taper steroids over at least 1 month</li> <li>If worsens or atypical presentation:</li> <li>- Consider IVIG or other immunosuppressive therapies per local guidelines</li> </ul>							

#### 8.10 Dose Modification Contacts

For treatment or dose modification questions, please contact Drs. Scott Gettinger and Lyudmila A. Bazhenova at <u>S1400I</u>MedicalQuery@swog.org. For dosing principles or questions, please consult SWOG Policy #38 "Dosing Principles for Patients on Clinical Trials" at http://swog.org (then click on "Policies and Manuals" under the "Visitors" menu and choose Policy 38).

8.11 Adverse Event Reporting

Toxicities (including suspected reactions) that meet the expedited reporting criteria as outlined in <u>Section 16.0</u> of the protocol must be reported to the Operations Office, Study Coordinator and NCI via CTEP-AERS, and to the IRB per local IRB requirements.



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### 9.0 STUDY CALENDAR

		Cycl		le 1 Cycle 2		Cycle 3		Cycle 4		Cycle 5		Cycle 6		Subse-	At	Off Tx	Off Tx
REQUIRED STUDIES	PRE- STUDY	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	quent Cycles β	Off Tx	FU Prior to	FU After Prog v
PHYSICAL														р		Prog ∆	FIUG
History & Physical Exam	Х			Х		Х		Х		Х		Х		Х	Х	Х	
Weight & Performance Status	X			X		X		X		X		X		X	X	X	
Disease Assessment $\Omega$	X			~		~		XΩ		~		~		XΩ	~	XΩ	
Toxicity Notation	X			Х		Х		X		Х		Х		X X	Х	Xcb	Xcb
Smoking Status Assessment	Х			~		~				~		~		~	X	7.00	7.00
S1400I PRO Questionnaire ©	X			Х		Х		Х		Х		Х		X©	~	X©	X©
<b>S1400I</b> EQ-5D ©	X			~		X		X		X		~		X©		X©	X©
LABORATORY	~					~				~				7.0		7.0	7.0
CBC/Diff/Platelets/Hgb	Х	X€		Х		Х		Х		Х		Х		х	Х	X¢b	Хф
Serum Bilirubin	X	X€		X		X		X		X		X		X	X	Xdb	Xdb
ALT and AST	X	X€		X		X		X		X		X		X	X	Xdb	Xdb
Serum Creatinine/Calc CrCl	X	X€		X		X		X		X		X		X	X	Xdb	Xdb
Alkaline phosphatase	X	X€		X		X		X		X		X		X	~	7.00	7.00
Blood urea nitrogen	X	X€		X		X		X		X		X		X			
Ca, Mg, Na, K, Cl	X	X€		X		X		X		X		X		X			
LDH ¥	X			~		~				~		~		~			
Glucose	X	X€		Х		Х		Х		Х		Х		X			
Amylaseπ	X	7.0		~		~		X		~		~		Χπ			
Lipasen	X							X						Χπ			
TSH/w.reflex Free T3/T4 π	X							X						Χπ			
Albumin ¥	X													Xh			
Creatine phosphokinase (CPK)	ХЖ							хж						хж			
Troponin	ХЖ							ХЖ						ХЖ			
X-RAYS AND SCANS																	
CT or MRI for Disease																	
Assessment $\Omega$	X							XΩ						XΩ		XΩ	
Brain CT/MRI	Х																
Image Submission $\Sigma$	Х							Х						Х		Х	
EKG	ХЖ							ХЖ						ХЖ			
Echocardiogram (ECHO)	ХЖ							ХЖ						ХЖ			

Calendar continued on next page. Calendar continued on next page. Click here for footnotes.



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		Сус	le 1	Сус	le 2	Сус	le 3	Сус	le 4	Су	cle 5	Сус	le 6	Subse-	At	Off Tx	Off Tx
REQUIRED STUDIES	PRE- STUDY	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	quent Cycles β	Off Tx	FU Prior to Prog ∆	FU After Prog √
SPECIMEN SUBMISSION																	
Tissue for Banking																	X§
Blood for Banking $f$	Х			Х				Х		Х							Xð
TREATMENT																	
Arm 1: Nivolumab/Ipilimumab																	
Nivolumab		Х		Х		Х		Х		Х		Х		Х			
Ipilimumab		Х						Х						Χw			
Arm 2: Nivolumab																	
Nivolumab		Х		Х		Х		Х		Х		Х		Х			

NOTE: Forms are found on the protocol abstract page of the SWOG website (www.swog.org). Forms submission guidelines are found in Section 14.0.

NOTE: Unless indicated otherwise in the protocol, scheduled procedures and assessments (treatment administration, toxicity assessment for continuous treatment treatment, disease assessment, specimen collection and follow-up activities) must follow the established SWOG guidelines as outlined in https://swog.org/Visitors/QA/Documents/Best%20Practices%20upddate.pdf.

#### Footnotes for Calendar:

- Ω CT or MRI (the same method used at prestudy to meet the eligibility criteria in <u>Section 5.0</u> of <u>S1400I</u>) must be repeated every 6 weeks (± 7 day window) for the first year, then every 3 months until disease progression.
- $\Sigma$  Submit scans as outlined in <u>Section 14.0</u> and <u>Section 15.0</u> of <u>S14001</u>.
- The <u>S14001</u> Patient Reported Outcomes (PRO) Questionnaire administered at Pre-study (within 14 days prior to <u>S14001</u> registration) and at Weeks 3, 5, 7, 9, 11, 13, 24 and 36. The <u>S14001</u> EQ-5D Questionnaire is administered at Prestudy, Weeks 5, 7, 9, 13, 24, 36, and Years 1, 2, and 3. (see <u>Section 18.2</u> of <u>S14001</u>). For each timepoint, the Cover Sheet for PRO Questionnaires should also be completed. The scheduled PRO assessments should be completed even if the patient goes off treatment early. Note: Patients enrolled to <u>S14001</u> prior to <u>9/1/2016</u> are not eligible for the PRO study.
- β During continued treatment, items marked under physical and laboratory should be performed at every subsequent cycle, unless otherwise noted. Disease assessments are to take place every 6 weeks for the first year, then every 3 months. (± 7 days window). Treatment and evaluation will continue until any of the criteria in Section 7.3 is met.
- △ After off treatment prior to progression, patients should be followed by repeating indicated tests every 3 months for the first year, then every 6 months for up to 3 years from date of sub-study registration, unless otherwise noted.
- After off treatment after progression, follow-up will occur (with lab tests and scans performed at the discretion of the treating physician) every 6 months for 2 years then at end of year 3 from date of sub-study study registration.
- f With patient's consent, additional research blood draws will be collected (see Section 15.0 of S1400I).
- $\pi$  Amylase, Lipase, and TSH w/ reflex Free T3/T4 are required at pre-study and must be repeated every 6 weeks while on treatment.
- ¥ Result of these tests do not determine eligibility but are recommended prior to sub-study registration.
- § With patients consent, an additional research biopsy within 1 month after the time of first progression among patients who had a response to protocol treatment (in the opinion of the treating physician) must be collected (see <u>Section 15.0</u> of <u>S14001</u>).
- € If the pre-study tests are obtained within 14 days prior to treatment, the tests need not be repeated.
- d Assessments should continue until resolution of all acute adverse events.
- ${\rm m}~$  Ipilimumab will be administered on Day 1 of every third cycle (i.e. Cycle 1, Cycle 4, Cycle 7 etc.).
- ð Blood for Banking specimen must be collected at first progression after study treatment (see Section 15.0 of S1400I).
- X CPK, troponin, EKG, ECHO are to be performed prestudy if clinically indicated (see <u>Section 5.2</u>) and are to be repeated every 6 weeks as clinically indicated while on treatment.



### 10.0 CRITERIA FOR EVALUATION AND ENDPOINT ANALYSIS

See <u>S1400</u> Section 10.0 for criteria for evaluation and endpoint analysis

See <u>**S1400**</u> Section 18.2 for criteria for evaluation and endpoint analysis of <u>**S1400**</u> Patient Reported Outcomes (PRO).

## 11.0 STATISTICAL CONSIDERATIONS

This study will employ a modified version of Design #1: a Phase II/III design as described in **S1400** <u>Section 11.1a</u>. A complete description of the statistical design and analysis plan is included in <u>Section 11.0</u> of <u>S1400</u>. This section includes details specific to <u>S1400</u>.

11.1 Primary Objective

The primary objective is to compare overall survival (OS) with nivolumab in combination with ipilimumab versus nivolumab monotherapy in immune checkpoint-inhibitor naïve patients who are not eligible for the other biomarker-driven sub-studies in <u>S1400</u>

11.2 Sample Size with Power Justification

The expected proportion of patients assigned to <u>**S1400I**</u> is 50%. The estimated monthly accrual rate to <u>**S1400I**</u> is an average rate of 6-8 patients per month in the first year and 12-18 patients per month thereafter.

This study is using a modified version of the Phase II/III Design #1 (see <u>S1400</u> <u>Section 11.1</u>) Due the expected mechanism of action of checkpoint inhibitors and their effects on PFS, this study will not include the phase II interim analysis. The design of the study is a straight Phase III design.

The sample size for this study is based on a design that targets a 50% improvement in median OS (HR=0.67) with 90% power and a 2.5% 1-sided type I error rate. This design requires 256 deaths. The expected number of PFS at the final analysis is 290 IA-PFS events For this secondary objective, the analysis of IA-PFS will based on ruling out the null hypothesis of less than or equal to a 33% improvement (HR =0.75). With 290 IA-PFS events testing the IA-PFS null hypothesis of a HR equal to 0.75 at the 1-sided 0.05 level has 96.5% power. The approximate threshold for determining PFS is both clinically and statistically 47 significant is a 60% improvement in median PFS (HR = 0.62).

The total sample size is 332 eligible patients based on a median OS of 9 months. Assuming the ineligibility rate is 5%, the total accrual is 350 patients accrued over 27-36 months.

Accrual and time estimates assume a median 2-month delay between the **<u>S1400</u>** screening registration and sub-study registration for patients screened at progression and a median 9-month delay between screening and sub-study registration for patients pre-screened during prior treatment. Expected analysis times are stated from sub-study activation.

11.3 Analysis Plan

Primary analyses will be performed on an intent-to-treat basis. A stratified (using randomization stratification factors) log-rank test will be used to test the primary hypotheses related to OS comparing the two treatment arms at the levels specified below. A Cox proportional hazards (PH) model will be used to



estimate the hazard ratios and associated confidence intervals. Analysis of response rates and toxicities will be performed using a chi-square or Fisher's exact test, as appropriate. The analysis of IA-PFS for the Phase III component will be done using a PH model score test (or in other words, a modified log-rank test at the PFS null hazard ratio of 0.75 [the 33% improvement in median PFS]).

#### Interim Analysis Plan:

Formal interim analysis are planned when 50% and 75% of the expected deaths have been observed with rules specified on the fixed-sample p-value scale. Evidence suggesting early termination of the trial for futility/harm will be if the alternative hypothesis of at least 50% improvement in OS for the experimental arm is rejected at the one-sided level 0.0025, using a PH model score test evaluated at the alternative hypothesis (e.g. Ha: HR=0.67 for OS). However, if the hazard ratio is between 1.0 and 1.10 at the first interim analysis at 50% analysis, the decision to either continue accrual or stop early for futility should also consider the shape of the survival curves evaluating the presence of non-proportional hazards with more limited follow-up. In such a case, the hazard ratio estimate at that time could be greater than 1 when in fact the hazard ratio estimate with a longer follow-up duration would show benefit with the investigational therapy.

Evidence suggesting early termination of the trial for superiority will evaluated at the second interim analysis alone (75% of expected OS events) and will be if the hypothesis of no difference in OS is rejected at the one-sided 0.0025 level using a log-rank test. A full description of the interim analyses is included in the statistical design and analysis plan in <u>Section 11.0</u> of <u>S1400</u>. The following table details the anticipated analysis times based on an accrual rate of 180 and 360 patients per year to <u>S1400I.</u>

				144 patients	/year	216 patients/year		
	Events	Estimated HR Boundary		N (eligible)	Time	N (eligible)	Time	
Phase III interim analyses:		Futility	Efficacy					
50% OS 75% OS	128 192	1.03 0.94	N/A 0.67	267 332	26 33	309 332	20 25	
Final Analysis OS	256			332	48	332	39	
Final Analysis PFS	290							

Summary of interim and final analyses

\* See note above regarding the futility considerations if the HR is between 1.0 and 1.10

Sample size and analysis times for interim analyses are estimates. The actual numbers and timing will depend on the actual accrual rate and the event rates within the treatment arms. The analyses will occur upon the observation of the specified number of events.

If the study is closed for either futility or efficacy at any of the interim analyses, all secondary objectives will be evaluated.



11.4 Data and Safety Monitoring Committee

A Data and Safety Monitoring Committee will oversee the conduct of the study. The Committee consists of four members from outside of SWOG. Group members, 3 non-voting representatives from the National Cancer Institute (NCI), and the Group Statistician (non-voting). The members of this Committee will receive confidential reports every 6 months from the SWOG Statistical Center, and will meet at the Group's bi-annual meetings as necessary. The Committee will be responsible for decisions regarding possible termination and/or early reporting of the study.

11.5 Translational Medicine

The statistical considerations for the <u>**S1400**</u> Patient Reported Outcomes (PRO) are described in Section 18.2 of <u>**S1400**</u>.

### 12.0 DISCIPLINE REVIEW

This section does not apply to this sub-study.

### 13.0 **REGISTRATION GUIDELINES**

See <u>Section 13.0</u> of <u>S1400</u> for registration guidelines.

13.1 Registration Timing

Patients must plan to begin treatment within 7 working days after sub-study registration.

### 14.0 DATA SUBMISSION SCHEDULE

14.1 Data Submission Requirements

Data must be submitted according to the protocol requirements for **ALL** patients registered, whether or not assigned treatment is administered, including patients deemed to be ineligible. Patients for whom documentation is inadequate to determine eligibility will generally be deemed ineligible.

14.2 Master Forms

Master forms can be found on the protocol abstract page on the SWOG website (www.swog.org) and (with the exception of the sample consent form and the Registration Worksheet) must be submitted on-line via the Web; see <u>Section</u> <u>14.3</u> for details.

- 14.3 Data Submission Procedures
  - a. All participating institutions must submit data electronically via the Web using Medidata Rave® at the following url: https://login.imedidata.com/selectlogin
    - 1. If prompted, select the 'CTEP-IAM IdP' link.
    - 2. Enter your valid and active CTEP-IAM userid and password. This is the same account used for the CTSU members' web site and OPEN.



b. You may also access Rave® via the SWOG CRA Workbench. Go to the SWOG web site (http://swog.org) and logon to the Members Area using your SWOG Roster ID Number and password. After you have logged on, click on *Workbenches*, then *CRA Workbench* to access the home page for the CRA Workbench and follow the link to Rave® provided in the left-hand navigation panel.

To access the CRA Workbench the following must be done (in order):

- 1. You are entered into the SWOG Roster and issued a SWOG Roster ID Number,
- 2. You are associated as an investigator or CRA/RN at the institution where the patient is being treated or followed,
- 3. Your Web User Administrator has added you as a web user and has given you the appropriate system permissions to view data for that institution.

For assistance with points 1 and 2 call the Operations Office at 210/614-8808. For point 3, contact your local Web User Administrator (refer to the "Who is my Web User Administrator?" function on the swog.org Members logon page).

For difficulties with the CRA Workbench, please email technical question @ crab.org.

- c. Institutions participating through the Cancer Trials Support Unit (CTSU) please refer to the <u>CTSU</u> Participation Table on Page 5 of <u>S1400</u>.
- 14.4 Data Submission Overview and Timepoints
  - a. <u>WITHIN 7 DAYS OF SUB-STUDY REGISTRATION, SUBMIT</u>:

#### S1400I Onstudy Form

Smoking Status Assessment Form

Baseline Tumor Assessment Form (RECIST 1.1)

Radiology reports from all scans performed to assess disease at baseline (NOTE: Upload reports via the Source Documentation: Baseline form in Rave<sup>®</sup>)

Submit to IROC via TRIAD for Central Radiology Review: Images from scans performed to assess disease at baseline as specified in <u>Section</u> <u>15.4</u>.

#### b. <u>IF PATIENT CONSENTS, SUBMIT SPECIMENS</u>:

Specimens as specified in Section 15.0.



c. <u>(For patients registered to **S1400I** after 9/1/2016 and participating in the **S1400I** PRO study) WITHIN 7 DAYS AFTER SUB-STUDY REGISTRATION AND AT WEEKS 3, 5, 7, 9, 11, 13, 24, AND 36, AND YEARS 1, 2, AND 3 SUBMIT:</u>

<u>**S14001**</u> Cover Sheet for Patient Reported Outcomes (PRO) Questionnaires\*

**<u>S14001</u>** Patient Reported Outcomes (PRO) Questionnaire\* (Required at Prestudy, Weeks 3, 5, 7, 9, 11, 13, 24, and 36)

**<u>S14001</u>** EQ-5D Questionnaire\* (Required at Prestudy, Weeks 5, 7, 9, 13, 24, 36, and Years 1, 2, and 3)

- \* NOTE: In addition to completing electronic forms, upload the patientcompleted questionnaires via the Source Documentation: PRO form in Rave<sup>®</sup>.
- d. <u>IMMEDIATELY AFTER EACH CYCLE (Cycle = 14 days) OF</u> <u>TREATMENT, SUBMIT</u>:

S1400I Treatment Form

S14001 Adverse Event Form

S14001 Laboratory Values Form

For Cycle 1 only: submit the  $\underline{\textbf{S1400I}}$  Pre-Treatment Laboratory Values Form

e. <u>WITHIN 7 DAYS AFTER EVERY DISEASE ASSESSMENT</u> (INCLUDING BOTH ON TREATMENT AND OFF TREATMENT PRIOR TO CONFIRMED DISEASE PROGRESSION [see **S1400I** Section 9.0 for Disease Assessment Schedule]), SUBMIT:

Follow-Up Tumor Assessment Form (RECIST 1.1) documenting results of assessment

Radiology reports from all scans performed to assess disease at followup (NOTE: Upload reports via the Source Documentation: Follow-up form in Rave<sup>®</sup>)

Submit to IROC via TRIAD for Central Radiology Review: Images from scans performed to assess disease as specified in <u>Section 15.4</u>.

#### f. WITHIN 7 DAYS OF DISCONTINUATION OF TREATMENT, SUBMIT:

Off Treatment Notice documenting reasons for off treatment

S1400I Treatment Form

S1400I Adverse Event Form

**<u>S1400I</u>** Laboratory Values Form

Smoking Status Assessment Form



### g. <u>ONCE OFF TREATMENT SUBMIT EVERY 6 MONTHS FOR THE</u> <u>FIRST 2 YEARS FROM **\$1400I** REGISTRATION, THEN AT THE END</u> <u>OF YEAR 3 SUBMIT:</u>

Advanced NSCLC Follow-Up Form

Late Effects Form (if prior to treatment for progression or relapse or a second primary, and prior to non-protocol treatment, the patient experiences any severe [Grade  $\geq$  3] long term toxicity that has not been previously reported.)

Note: Patients that enroll on a new sub-study following progression may discontinue follow-up on this sub-study and proceed per protocol of new sub-study. See <u>Section 14.4j</u>.

#### h. WITHIN 7 DAYS OF PROGRESSION/RELAPSE, SUBMIT:

Site(s) of Progression or Relapse Form

Follow-Up Tumor Assessment Form (RECIST 1.1)

Radiology reports from all scans performed to assess disease at followup (NOTE: Upload reports via the Source Documentation: Follow-up form in Rave<sup>®</sup>)

Submit to IROC via TRIAD for Central Radiology Review: Images from scans performed to assess disease as specified in <u>Section 15.4</u>.

#### i. WITHIN 28 DAYS OF KNOWLEDGE OF DEATH:

Submit the Notice of Death documenting death information. In addition, if the patient was still on protocol treatment, submit materials specified in <u>Section 14.4f</u> or if patient was no longer on treatment, submit a final Advanced NSCLC Follow-Up Form.

j. Data Submission <u>FOR PATIENTS WHO HAVE PROGRESSED AND</u> <u>WISH TO REGISTER TO A NEW SUB-STUDY</u>:

WITHIN 7 DAYS OF PROGRESSION/RELAPSE:

Submit the <u>**S1400**</u> Request for New Sub-Study Assignment Form under **S1400** in Rave® Continue follow-up on <u>**S1400**</u> per <u>Sections 9.0</u> and <u>14.4g</u> until registration to a new sub-study. See Section 14.6 of <u>**S1400**</u> for additional data submission requirements following request for new sub-study assignment.

#### 15.0 SPECIAL INSTRUCTIONS

15.1 SWOG Specimen Tracking System (STS)

See <u>S1400</u> <u>Section 15.1</u> for SWOG Specimen Tracking System (STS) instructions.



15.2 Correlative Studies and Banking (Optional for Patients)

Specimens for correlative studies and banking (submitted to the SWOG Specimen Repository – Solid Tissue, Myeloma and Lymphoma Division, Lab #201) are considered optional for the patient:

- a. With patient's consent, specimens must be collected and submitted as follows:
  - 1. Peripheral Blood:

Specimens must be collected at the following times:

- Prestudy (see <u>Section 15.3</u> of <u>S1400I</u>) Note: If a patient provided blood at pre-screening at the time of progression on current treatment or screening (see <u>Section 15.3</u> of <u>S1400</u>) and registration to <u>S1400</u> was within 42 days from sub-study registration, then that blood specimen can count as pre-study blood.
- Weeks 3, 7, 9. Patients that go off treatment are not required to continue to submit specimens.
- First Progression after study treatment

Approximately 8-10 mL of blood must be collected in EDTA tubes. Blood should be processed within one hour after venipuncture. If immediate processing within this time frame is not possible, EDTA tubes that are not processed immediately should be refrigerated at 4°C. The approximate time from collection to processing should be recorded as part of the patient's source documentation. EDTA tubes must be centrifuged at 800 g for 10 minutes at 4°C for the collection of plasma. Plasma must be transferred to one 15 ml centrifuge tube and spun again at 800g for an additional 10 minutes. Plasma must then be pipetted into 1 ml coded cryovials at 0.5 ml aliquots. Plasma must be clear before freezing; no cells or debris should be present. Each buffy coat layer (the gray-white layer at the interface of blood cells and plasma, approximately 1 ml) from the blood tube must each be transferred into appropriately labeled 2-ml cryovials. Samples must be placed immediately in a -80°C freezer to ensure long-term viability.

2. New Biopsy of Tumor at Time of Progression among responders to protocol treatment:

A new biopsy is strongly requested from patients who responded to protocol treatment (in the opinion of the treating physician) and then experienced disease progression for molecular analysis of molecular characteristics associated with mechanisms of resistance. New biopsy should be either bronchoscopy/surgical biopsy or CT guided biopsy. The biopsy should be performed within one month after progression and should be processed as FFPE material. The minimum requirement is a block or 12 unstained sections.



b. Specimen Submission

Samples for multiple patients can be shipped in batches, at least every 3 months if not more frequently, to the SWOG Specimen Repository – Solid Tissue, Myeloma and Lymphoma Division, Lab #201.

Specimen collection and submission instructions can be accessed on the SWOG Specimen Submission webpage (http://swog.org/Members/ClinicalTrials/Specimens/STSpecimens.asp).

- c. Specimen collection kits are not being provided for this submission; sites must use institutional supplies.
- 15.3 PD-L1 IHC Testing

With patient's consent, tissue will be sent from the SWOG Specimen Repository to University of Colorado Denver HSC. for PD-L1 Testing (see <u>Section 18.1</u> for details).

15.4 Radiology Review (Required)

CT, PET/CT, and/or MRI images must be locally read and interpreted by the local site radiology service. Imaging exams must then be submitted to the Imaging and Radiation Oncology Core (IROC) at Ohio via TRIAD Imaging Submission procedures for central data collection and quality control (QC) check as well as retrospective central review.

- a. CT, PET/CT, and/or MRI images must be submitted to IROC Ohio for central review at the following timepoints:
  - Baseline
  - Every 6 weeks for the first year, then every 3 months until progression

All study participants must have a CT (or MR or PET/CT) exam prior to sub-study entry. Participants must then undergo additional imaging every 6 weeks for the first year, then every 3 months until progression of disease. The same imaging modality used for the pre-treatment exam must be used for the post-treatment exams (see <u>Section 10.1c</u>). Each exam should be performed per <u>S1400</u> Section 18.1c. IROC will perform a QC of the imaging exams.

Clinical management and treatment decisions will be made by the treating physician based on local site assessments and other clinical appropriate considerations.

Central review of scans will not be triggered if the study will not be submitted to the FDA for FDA approval of the investigational therapy. Central review of scans will be triggered only if deemed necessary for FDA evaluation. A detailed description of the central radiology PFS review, including image acquisition parameters and image submission instructions, can be found in <u>S1400</u> Section 18.1c.



b. TRIAD Digital Image Submission

TRIAD is the secure electronic image upload application utilized for IROC Services of this trial. TRIAD de-identifies and validates the images as they are transferred.

1. TRIAD Access Requirements:

TRIAD will be the sole means of image transfer to the IROC Ohio. TRIAD should be installed prior to study participant enrollment to ensure prompt secure, electronic submission of imaging.

- Site staff who submit images through TRIAD will need to be registered with the Cancer Therapy Evaluation Program (CTEP) and have a valid and active CTEP-IAM account (see S1400 Section 13.2).
- To submit images, the site user must be on the site's affiliate rosters and be assigned the 'TRIAD site user' role on the CTSU roster. Users should contact the site's CTSU Administrator or Data Administrator to request assignment of the TRIAD site user role.
- 2. TRIAD Installations:

After a user receives a CTEP-IAM account with the proper user role, he/she will need to have the TRIAD application installed on his/her workstation to be able to submit images. TRIAD installation documentation can be found by following this link https://triadinstall.acr.org/triadclient/

Questions regarding image submissions, including TRIAD, should be directed to SWOG1400@irocohio.org or call IROC Ohio at 614-293-2929.

15.5 **<u>S1400I</u>** PRO Questionnaire Administration Instructions

Instructions for administration of the <u>S14001</u> Patient Reported Outcomes (PRO) Questionnaire and the <u>S14001</u> EQ-5D Questionnaire are described in Section 18.2 of <u>S14001</u>.

## 16.0 ETHICAL AND REGULATORY CONSIDERATIONS

#### 16.1 ADVERSE EVENT REPORTING REQUIREMENTS

a. Purpose

Adverse event data collection and reporting, which are required as part of every clinical trial, are done to ensure the safety of patients enrolled in the studies as well as those who will enroll in future studies using similar agents. Adverse events are reported in a routine manner at scheduled times during a trial. (Directions for routine reporting are provided in <u>Section 14.0</u>.) Additionally, certain adverse events must be reported in an expedited manner to allow for timelier monitoring of patient safety and care. The following guidelines prescribe expedited adverse event reporting for this protocol.



b. Reporting method

This study requires that expedited adverse events be reported using the Cancer Therapy Evaluation Program Adverse Event Reporting System (CTEP-AERS). CTEP's guidelines for CTEP-AERS can be found at http://ctep.cancer.gov. A CTEP-AERS report must be submitted to the SWOG Operations Office electronically via the CTEP-AERS Web-based application located at:

http://ctep.cancer.gov/protocolDevelopment/electronic\_applications/adverse\_events.htm.

c. When to report an event in an expedited manner

Some adverse events require 24-hour notification (refer to <u>Table 16.1</u>) via CTEP-AERS. When Internet connectivity is disrupted, a 24-hour notification is to be made to SWOG by telephone at 210-614-8808 or by email at adr@swog.org. Once Internet connectivity is restored, a 24-hour notification that was made by phone or using adr@swog.org must be entered electronically into CTEP-AERS by the original submitter at the site.

When the adverse event requires expedited reporting, submit the report within the number of calendar days of learning of the event, as specified in <u>Table 16.1</u>.

d. Other recipients of adverse event reports

The SWOG Operations Office will forward reports and documentation to the appropriate regulatory agencies and drug companies as required.

Adverse events determined to be reportable to the Institutional Review Board responsible for oversight of the patient must be reported according to local policy and procedures.

#### e. Expedited reporting for investigational agents

Expedited reporting is required if the patient has received at least one dose of the investigational agent(s) as part of the trial. Reporting requirements are provided in <u>Table 16.1</u>. The investigational agent(s) used in Arm 1 and Arm 2 of this study are nivolumab and ipilimumab. [Please note – For this sub-study the post dosage expedited reporting requirement window has been extended to <u>100</u> days rather than the normal 30 day requirement.] If there is any question about the reportability of an adverse event or if on-line CTEP-AERS cannot be used, please telephone or email the SAE Specialist at the Operations Office, 210/614-8808 or adr@swog.org, before preparing the report.



Table 16.1:

Late Phase 2 and Phase 3 Studies: Expedited Reporting Requirements for Adverse Events that Occur on Studies under a Non-CTEP IND within 100 Days of the Last Administration of the Investigational Agent/Intervention<sup>1</sup> Nivolumab plus Ipilimumab, Arm 1 and Nivolumab Arm 2:

FDA REPORTING REQUIREMENTS FOR SERIOUS ADVERSE EVENTS (21 CFR Part 312)
NOTE: Investigators <u>MUST</u> immediately report to the sponsor (NCI) <u>ANY</u> Serious Adverse Events, whether or not they are considered related to the investigational agent(s)/intervention (21 CFR 312.64)
An adverse event is considered serious if it results in <u>ANY</u> of the following outcomes:

Death
A life-threatening adverse event

- An adverse event that results in inpatient hospitalization or prolongation of existing hospitalization for ≥ 24 hours
- 4) A persistent or significant incapacity or substantial disruption of the ability to conduct normal life functions
- 5) A congenital anomaly/birth defect.
- 6) Important Medical Events (IME) that may not result in death, be life threatening, or require hospitalization may be considered serious when, based upon medical judgment, they may jeopardize the patient or subject and may require medical or surgical intervention to prevent one of the outcomes listed in this definition. (FDA, 21 CFR 312.32; ICH E2A and ICH E6).

<u>ALL</u> <u>SERIOUS</u> adverse events that meet the above criteria <u>MUST</u> be immediately reported to the NCI via CTEP-AERS within the timeframes detailed in the table below.

Hospitalization	Grade 1 Timeframes	Grade 2 Timeframes	Grade 3 Timeframes	Grade 4 & 5 Timeframes					
Resulting in Hospitalization ≥ 24 hrs	Hospitalization 10 Calendar Days								
Not resulting in Hospitalization ≥ 24 hrs	Not red	quired	10 Calendar Days	Calendar Days					
<ul> <li>found in the Specific Protocol Exceptions to Expedited Reporting (SPEER) portion of the CAEPR.</li> <li>Expedited AE reporting timelines are defined as: <ul> <li>"24-Hour; 5 Calendar Days" - The AE must initially be reported via CTEP-AERS within 24 hours of learning of the AE, followed by a complete expedited report within 5 calendar days of the initial 24-hour report.</li> <li>"10 Calendar Days" - A complete expedited report on the AE must be submitted within 10 calendar days of learning of the AE.</li> </ul> </li> </ul>									
<sup>1</sup> Serious adverse events that occur more than 100 days after the last administration of investigational agent/intervention and have an attribution of possible, probable, or definite require reporting as follows:									
<ul> <li>Expedited 24-hour notification followed by complete report within 5 calendar days for:</li> <li>All Grade 4, and Grade 5 AEs</li> <li>Expedited 10 calendar day reports for:</li> <li>Grade 2 adverse events resulting in hospitalization or prolongation of hospitalization</li> <li>Grade 3 adverse events</li> </ul>									
Мау 5, 2011									



#### f. Additional Instructions or Exceptions to CTEP-AERS Expedited Reporting Requirements for Late Phase 2 and Phase 3 Studies Utilizing an Agent under a non-CTEP-IND:

### 1. **Group-specific instructions.**

Supporting Documentation Submission - Within 5 **calendar days** submit the following to the SWOG Operations Office by fax to 210-614-0006 or mail to the address below:

- Printed copy of the first page of the CTEP-AERS report
- Copies of clinical source documentation of the event
- If applicable, and they have not yet been submitted to the SWOG Data Operations Center, copies of Off Treatment Notice and/or Notice of Death.

### g. Reporting Secondary Malignancy, including AML/ALL/MDS

1. A secondary malignancy is a cancer caused by treatment for a previous malignancy (e.g., treatment with investigational agent/intervention, radiation or chemotherapy). A secondary malignancy is not considered a metastasis of the initial neoplasm.

SWOG requires all secondary malignancies that occur following treatment with an agent under a Non-NCI IND to be reported via CTEP-AERS. Three options are available to describe the event.

- Leukemia secondary to oncology chemotherapy (e.g., Acute Myelocytic Leukemia [AML])
- Myelodysplastic syndrome (MDS)
- Treatment-related secondary malignancy

Any malignancy possibly related to cancer treatment (including AML/MDS) should also be reported via the routine reporting mechanisms outlined in each protocol.



Second Malignancy: A second malignancy is one unrelated to the treatment of a prior malignancy (and is NOT a metastasis from the initial malignancy). Second malignancies require ONLY routine reporting via CDUS unless otherwise specified.

For more information see: http://ctep.cancer.gov/protocolDevelopment/electronic\_applicatio ns/docs/aeguidelines.pdf.

2. Any supporting documentation should be submitted to CTEP per NCI guidelines for AE reporting located at http://ctep.cancer.gov/protocolDevelopment/electronic\_applicatio ns/docs/aeguidelines.pdf.

A copy of the report and the following supporting documentation must also be submitted to SWOG Operations Office within 30 days:

- a copy of the pathology report confirming the AML/ALL /MDS diagnosis
- (if available) a copy of the cytogenetics report

SWOG ATTN: SAE Program 4201 Medical Drive, Suite 250 San Antonio, Texas 78229

NOTE: If a patient has been enrolled in more than one NCIsponsored study, the report must be submitted for the most recent trial.

## h. Reporting Pregnancy, Fetal Death, and Death Neonatal

1. **Pregnancy** Study participants who become pregnant while on study; that pregnancy should be reported in an expedited manner via CTEP-AERS as **Grade 3 "Pregnancy, puerperium and perinatal conditions – Other (pregnancy)"** under the **Pregnancy, puerperium and perinatal conditions** SOC.

Additionally, the pregnancy outcome for patients on study should be reported via CTEP-AERS at the time the outcome becomes known, accompanied by the same Pregnancy Report Form used for the initial report.

- 2. Fetal Death Fetal Death defined in CTCAE as "A disorder characterized by death in utero; failure of the product of conception to show evidence of respiration, heartbeat, or definite movement of a voluntary muscle after expulsion from the uterus, without possibility of resuscitation" should be reported expeditiously as Grade 4 "pregnancy, puerperium and perinatal conditions Other (pregnancy loss)" under the Pregnancy, puerperium and perinatal conditions SOC.
- 3. **Death Neonatal** Neonatal death, defined in CTCAE as "A disorder characterized by cessation of life occurring during the first 28 days of life" that is felt by the investigator to be at least possibly due to the investigational agent/intervention should be reported expeditiously.



A neonatal death should be reported expeditiously as **Grade 4** "General disorders and administration – Other (neonatal loss)" under the General disorders and administration SOC.

Fetal death and neonatal death should **NOT** be reported as a Grade 5 event. If reported as such, the CTEP-AERS interprets this as a death of the patient being treated.

**NOTE:** When submitting CTEP-AERS reports for "Pregnancy, "Pregnancy loss", or "Neonatal loss", the Pregnancy Information Form should also be completed and faxed with any additional medical information to 301-230-0159. The potential risk of exposure of the fetus to the investigational agent(s) or chemotherapy agent(s) should be documented in the "Description of Event" section of the CTEP-AERS report.

The Pregnancy Information Form is available at http://ctep.cancer.gov/protocolDevelopment/adverse\_effects.htm.



### 17.0 BIBLIOGRAPHY

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# 18.0 APPENDIX

- 18.1 Translational Medicine PD-L1 IHC Testing
- 18.2 Translational Medicine <u>**S14001**</u> Patient Reported Outcomes (PRO)



## 18.1 Translational Medicine - PD-L1 IHC Testing

#### **Objectives**

- 1. To evaluate if PDL-1 protein expression as defined and used in previous nivolumab studies for NSCLC is associated with improved clinical outcomes (response, PFS, OS) in patients treated with PD-1 antibody (nivolumab).
- 2. To evaluate if PDL-1 protein expression as defined and used in previous nivolumab studies for NSCLC is predictive for improved clinical outcomes in patients treated with nivolumab + ipilimumab versus nivolumab alone.
- 3. To explore whether H-score assessment can be used as a predictive biomarker analysis in this setting.

### Background

Treatment of patients with PDL-1 or PD-1 antibodies have demonstrated very encouraging effect in patients with advanced NSCLC and has led to FDA approval of nivolumab for 2nd Line therapy of patients with squamous lung cancer. Most recently superior outcome data has been presented in patients with non-squamous lung cancer with the same agents, and FDA approval is expected in this patient population, as well. However, conflicting data have been presented regarding the role of PDL-1 protein expression (IHC) as predictive biomarker for response and outcome (PFS/OS) for these new agents. Quite consistent in all studies is the fact that response and outcome seem to be better in patients with PDL-1 positive tumors compared to those with PDL-1 negative tumors, but not all the studies have shown statistical significant differences. In the nivolumab registration study for 2nd line therapy for squamous lung cancer some difference (not statistical significant) between the two groups was seen. However, no data yet is known for PDL-1 assay as a predictive biomarker for combination therapy, which will be studied in the current clinical trial.

No predictive data has yet been presented using an H-score system related to PDL-1, and this study provides an opportunity to also study alternating assessment methods using the same slides.

PD-L1 IHC testing will be performed on tumor specimens from patients registered to <u>S14001</u> who consented to future testing in <u>S1400</u>. Tumor specimens will be shipped from the SWOG specimen repository at Nationwide to University of Colorado Denver HSC on a bi-weekly basis. The SWOG statistical center will provide Nationwide with the list of patient specimens to ship to University of Colorado Denver HSC. All specimens must be entered and tracked using the online SWOG Specimen Tracking System (STS). Shipments to University of Colorado Denver HSC will be accompanied by pathology report, SWOG patient ID, specimen ID, sample collection date, and sample type.

#### Experimental research techniques/tests employed and expertise

The DAKO assay previously used in nivolumab studies will be applied primarily with the use of the well-defined cut-offs (1%, 5%, 10%). In addition, an H-score evaluation will be applied as explorative. The H-score protein assessment for lung cancer was first described by the TM Study Chair (Dr. Hirsch) applied in EGFR in a publication in J clin Oncol in 2003. It has since been applied by other



investigators for different targets in multiple publications, including the Hirsch lab. Dr. Hirsch's lab is currently involved in an international "comparison" project of the available PDL-1 assays used in the clinical trials by the different companies. Dr. Hirsch's lab is also involved in a large PDL-1 project supported by BMS and performed through NCTN, which has the goal to understand this specific assay's performance on different types of specimens (i. e. large specimens versus small biopsies versus cytology). Dr. Hirsch is co-chair for that study, and as such has special experience with the DAKO/BMS PDL-1 assay, which is planned to be used in this TM study proposal.

Dr. Fred Hirsch is the key contact for questions regarding this translational medicine study:

Lab# 167 Fred R. Hirsch, M.D., Ph.D. (Translational Medicine) University of Colorado Cancer Center P.O. Box 6511, MS 8117 Aurora, CO 80045 Phone: 303/724-3858 E-mail: fred.hirsch@ucdenver.edu

#### Statistical Plan

Based on current tissue submission data, it is estimated that approximately 60% of eligible patients enrolled on S1400I will have sufficient tissue leftover after FMI genetic profiling to have PD-L1 expression analyzed. Furthermore, based on Rizvi, et al [Lancet Oncol. 2015 Mar; 16 (3):257-65. doi: 10.1016/S1470-2045(15)70054-9. Epub 2015 Feb 20]. It is anticipated that for approximately 13% of these patients the specimens submitted will turn out not to be evaluable for PD-L1 testing. Therefore, with 332 patient enrolled on S1400I, we expect 174 patients in all of the analysis described below.

First we will evaluate if PD-L1 expression, as measured by the DAKO assay, is associated with improved clinical outcomes, overall survival (OS), progression-free survival (PFS), and response rate (confirmed and unconfirmed, complete and partial responses), in all patients treated with nivolumab (i.e. both study treatment arms combined). Using a definition of PD-L1 positivity as an IHC score of at least 5% ( $\geq$  5%), it is expected, based on Rivzi et al, that of patients with evaluable specimens 35% will be PD-L1 positive and 65% will be PD-L1 negative.

Assuming that the median overall survival among PD-L1 negative patients is 9 months, with 174 patients enrolled over 36 months and an additional 12 months of follow-up, there will be approximately 83% power to detect a hazard ratio of 1.6, corresponding to a median OS of 14.4 months for PD-L1 positive patients, using a one-sided 0.05 level log-rank test.

Assuming a median PFS of 3.5 months in PD-L1 negative patients, there will be approximately 81% power to detect a hazard ratio of 1.5, corresponding to a median PFS of 5.25 months in PD-L1 positive patients, using a one-sided 0.05 level log-rank test.

In addition, we will assess whether patients who are PD-L1 positive have a better probability of response (confirmed and unconfirmed, complete and partial responses). With 174 patients we will have approximately 80% power to be able to detect a difference of 21% or greater using a one-sided 0.05 level test of proportions.



Next we will evaluate whether PD-L1 status is predictive for improved overall survival for patients receiving the combination of nivolumab + ipilimumab by fitting a cox model with an interaction term for treatment effect. If we assume no treatment effect in the single agent nivolumab arm, and no treatment effect for PD-L1 negative patients receiving the combination, and further assuming the null median OS is 9 months, there will be approximately 83% power, using a one-sided test at the 0.15 type-1 error level, to detect a OS hazard ratio of 2, corresponding to an improvement to a median OS of 18 months in PD-L1 positive patients receiving the combination of ipilimumab plus nivolumab.

We will evaluate a treatment interaction effect for PFS in the same manner as described above. Once again, we assume no treatment effect in the single agent arm and no treatment effect for PD-L1 negative patients in the combination arm. If we further assume the null median PFS is 3.5 months, there will be approximately 81% power, using a one-sided test at the 0.15 type-1 error level, to detect a PFS hazard ratio of 1.9, corresponding to an improvement in median PFS to 6.65 months for PD-L1 positive patients receiving the combination of nivolumab plus ipilimumab.

To evaluate if there is a treatment interaction effect on the probability of response, a logistic regression model will be fit. However, power for testing the interaction term at the 0.15 level will be at best modest (< 70%) to detect a very large difference (OR > 4).

All of the analyses previously described will be repeated using the alternative cutoffs for defining PD-L1 positivity as an IHC score of at least  $1\% (\ge 1\%)$  and again for an IHC score of at least  $10\% (\ge 10\%)$ .

In addition, we will investigate in a preliminary manner whether PD-L1 expression by IHC is associated with improved clinical outcomes (OS, PFS, response) among all patients treated with nivolumab (i.e. both arms combined) as well as explore whether there is a treatment interaction effect for patients treated with the combination of nivolumab plus ipilimumab. The raw marker data (H score) will be rescaled to quantiles and a Cox regression model will be fit treating the rescaled data as a continuous variable.

Assuming 36 months accrual and 12 months of follow-up, there will be 86% power to detect a 1.5 hazard ratio (i.e. a 50% improvement in median PFS) between patients with H score levels in the third quantile versus patients with H score levels in the first quantile using a one-sided test with an alpha = 0.05.

To evaluate if patients receiving the combination of nivolumab + ipilimumab with PD-L1 expression by IHC have a better PFS than patients with PD-L1 expression treated on the control arm, we will fit a Cox regression model with a treatment interaction term to evaluate if there is a difference in treatment effect associated with marker values. The H Score data will be rescaled to quantiles. Assuming 36 months accrual and 12 months of follow-up, there will be 81% power to detect a 1.9 treatment interaction hazard ratio between the third quartile and the first quartile.

The association between PD-L1 expression and overall survival will be analyzed with Cox regression techniques in the same manner described above. The association between PD-L1 expression and response rates (confirmed and unconfirmed, complete and partial responses) will be evaluated by fitting logistic regression models to the rescaled data. Patients whose exact response cannot be determined due to inadequate follow-up assessments will be included in the analysis as non-responders.



#### Laboratory

University of Colorado Denver HSC will serve as the central laboratory for testing PD-L1 expression in patients who register to <u>S1400I</u> and have consented to additional testing beyond NGS.

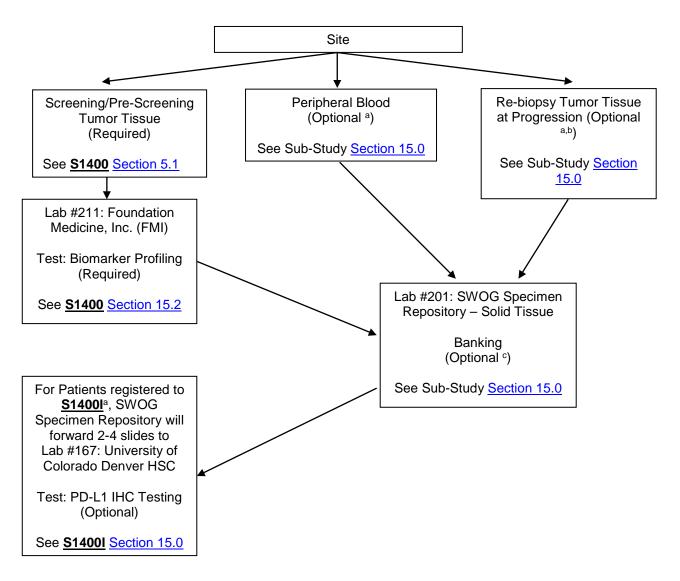
Lab# 167 Fred R. Hirsch, M.D., Ph.D. (Translational Medicine) University of Colorado Cancer Center P.O. Box 6511, MS 8117 Aurora, CO 80045 Phone: 303/724-3858 E-mail: fred.hirsch@ucdenver.edu

#### **Specimen Requirements**

The preferred thickness is 4 micron unstained tissue sections; although 5 micron unstained tissue sections are allowable. For patients with tumor blocks at Nationwide, Nationwide will prepare 4 micron unstained slides. At least 100 tumor cells is defined to be sufficient viable tumor tissue for PD-L1 IHC testing. Fine needle aspirates are not acceptable. A minimum of 3 unstained tissue sections along with a hematoxilyn-eosin (H&E)-stained slide or Aperio H&E-stained image will be sent to University of Colorado Denver HSC for PD-L1 IHC testing for consented patients with sufficient tissue.



Specimen Flow Diagram



- a With patient's consent.
- b Among patients who initially responded to protocol treatment.
- c With patient's consent, any remaining tissue will be sent to the SWOG Specimen Repository Solid Tissue, Myeloma and Lymphoma Division, Lab #201, for future exploratory analysis.



## 18.2 Translational Medicine – **<u>S14001</u>** Patient Reported Outcomes (PRO)

### **Objectives**

- 1. To compare symptom status by treatment arm using a validated PRO symptom measure, the M. D. Anderson Symptom Inventory (MDASI-LC) Severity Score
- 2. To identify PRO-based symptoms prognostic for time to progression
- 3. To develop a statistical model that identifies a PRO-based symptom score optimally prognostic for survival outcomes
- 4. To evaluate functional status/interference of symptoms with life as a prognostic variable for time to progression
- 5. To compare treatment-related toxicities by treatment arm at each assessment time
- 6. To compare EQ-5D Index scores by treatment arm.
- 7. To collect psychometric information (reliability and validity) data for the Non-Small Cell Lung Cancer Symptom Assessment Questionnaire (NSCLC-SAQ).

#### **Background**

Advanced squamous cell lung cancer (NSCLC) is associated with a significant symptom burden. Patients with NSCLC suffer from high levels of physical symptoms, the most common being cough, shortness of breath, and chest pain. (1) These symptoms can have serious consequences on patient functionality and quality of life and may serve as a predictor of performance status. (2) The ability to provide direct evidence reflecting the improvement, stabilization, or worsening of disease symptoms is invaluable to demonstrating clinical benefit, beyond survival, and informing decision making. (3-6)

Lung-MAP is a large scale, biomarker driven set of single arm trials for patients with advanced stage squamous cell lung cancer whose molecular profile matches a targeted therapy for that profile; it is an example of an umbrella trial. (7) Depending on results, some of these trials will progress to Phase III, randomized trials. Patients whose molecular profile does not match a targeted therapy will be assigned to a specific "non-match" sub-study and randomized to either treatment with a new drug or drug combination or standard of care (SOC); trials other than **<u>S1400I</u>** are in development. The endpoints used in Lung-MAP (PFS, OS, and RR), currently, do not adequately capture the complex symptom profile experienced by patients, which may result from the disease, the therapy, or both. We propose to fill this potential gap in the knowledge base through the addition of a set of patient-reported outcomes (PROs). Patients on S1400I are randomized to either SOC (Nivolumab) or the combination regimen (Nivolumab + Ipilimumab). This trial structure provides an ideal setting for evaluating the information provided by PRO measures and assessing how well PRO measures track with disease symptoms and other clinical outcomes. In addition, we have the opportunity to obtain preliminary survivorship status for this group of patients at the three yearly follow-up assessments for clinical status; we propose using the EQ-5D for this purpose.



## **PRO instrument:**

The Lung-MAP PRO instrument for <u>**S1400**</u> will include the following items that assess self-reported symptom and functional status of patients with squamous cell lung cancer. Patients will be asked to complete a total of 40 items.

- 1. **MDASI-LC**(3,8-11): 21 items. The M. D. Anderson Symptom Inventory – Lung Cancer (MDASI-LC) asks patients to rate the severity of 13 core symptoms that are common in cancer patients once treatment begins: fatique, sleep disturbance, pain, drowsiness, poor appetite, nausea, vomiting, shortness of breath, numbness, difficulty remembering, dry mouth, distress, and sadness. Three additional lung-specific items were added for the MDASI Lung Cancer module (coughing, constipation, and sore throat). The MDASI-LC investigators (10) suggest elimination of the sore throat item if the treatment regimen does not include radiation therapy. As S1400I does not include radiation therapy, the MDASI-LC will not include this item. Patients rate each symptom's presence and greatest severity in the previous 24 hours on an 11-point (0-10) scale, with 0 representing "not present" and 10 representing "as bad as you can The MDASI-LC questionnaire generates a mean Core imagine." symptom score for the 13 general symptoms and a mean Severity score for the Core plus two lung cancer symptom items for a total of 15 items. The MDASI-LC Interference score (six items) will also be included to address how symptoms interfere with the patient's general activity/functional status in the last 24 hours; these items also use a 0 to10 response scale. (3, 6, 9-11) The MDASI-LC form will include 21 items for S1400I. Only the scores from the validated MDASI-LC questionnaire will be used to formally compare treatment arms in **<u>S14001</u>**. This approach follows an accepted practice of only using validated PRO measures as endpoints in cancer clinical trials. (12-14)
- NSCLC-SAQ (15): 7 items. The PRO Consortium's NSCLC Working 2. Group is developing the NSCLC-SAQ measure. Qualitative research has recently been conducted for this measure. An early report of qualitative research findings is available that addresses expert review to identify concepts as well as interviews with 51 patients to review draft concepts/items and patient understanding of these items; this report reflects data from the first of three waves of cognitive debriefing regarding the content validity of the NSCLC-SAQ. (15) To gather data that can be used in the validation of the new NSCLC-SAQ measure in the S1400I, we propose administering all seven items of the NSCLC-SAQ plus the MDASI-LC. There is conceptual overlap of the NSCLC-SAQ with the MDASI-LC, which generates some degree of patient response burden; this similarity in content will also increase the potential for a larger correlation between the two symptom measures. Allowing this redundancy is partly necessary in order to anchor the NSCLC-SAQ items to a known, validated instrument for documentation of psychometric properties of the new measure. The time frame does differ for these two measures, with the NSCLC-SAQ using a 7-day recall



period to address symptom severity or frequency whereas the MDASI-LC uses the past 24 hours for responses. The response option format also differs with the MDASI using a 0 to 10 scale and the NSCLC-SAQ using five response options for each item.

- 3. Single Items Used for Validation of New Measure: 2 Items. A single item, patient-rating of performance status (16-19) based on the ECOG Performance Status measure (20) will be assessed as a surrogate for physical status. The MDASI-LC Interference score will also be used for this purpose. A second single item Global Rating of Change (GRC) in symptom status (Personal Communication, Charles Cleeland, February, 2016) will be obtained to identify minimally important differences in symptom status for both measures and to document the new measure's responsiveness to change. (19, 21, 22) The symptom severity GRC item will ask patients to rate change in the severity of symptoms "...since the last time you completed this questionnaire" (much better, better, nearly the same, worse, much worse). The GRC item is included in the S14001 Patient Reported Outcomes (PRO) Questionnaire; this item is not to be administered at PreStudy but should be completed starting at week 5 and at all subsequent assessments through week 36 post-registration.
- 4. Four Patient-Reported Outcomes Common Terminology Criteria for Adverse Events (PRO-CTCAE) (23) will be included to address three toxicities (fatigue, pruritis, and diarrhea) common to the two agents used in this trial. (24) Fatigue treatment-related toxicity will be assessed with the PRO-CTCAE Fatigue severity item (What was the SEVERITY of your FATIGUE, TIREDNESS, OR LACK of ENERGY at its WORST [none/Mild/Moderate/Severe/Very severe]). . The degree to which fatigue interferes with daily functioning will also be assessed with one PRO-CTCAE item (How much did FATIGUE, TIREDNESS, OR LACK OF ENERGY INTERFERE with your usual or daily activities?) Pruritis and dermatitis will be assessed with the PRO-CTCAE Itchy Skin item (What was the SEVERITY of your ITCHY SKIN at its WORST [None/Mild/Moderate/Severe/Very severe]). Diarrhea will be assessed with the PRO-CTCAE Diarrhea item (How OFTEN did you have LOOSE OR WATERY STOOLS

(DIARRHEA)[Never/Rarely/Occasionally/Frequently/Almost constantly/ Not applicable]). The time frame for these items is the last 7 days. Only Fatigue is assessed by the MDASI-LC, not the other two symptoms found to be associated with the two treatments. The MDASI-LC and the PRO-CTCAE response options differ, with the PRO-CTCAE options more tailored to the standard physician-rated CTCAEs. For this reason, we feel it is important to add these three symptoms and one fatigue interference item to the assessment package because of the interest in being able to separate disease- and treatment-related symptoms.

5. <u>S1400I</u> PRO study will also administer the EQ-5D health utility measure (25-28): 6 Items. These items addressing different health dimensions are rated with respect to no problems, some problems, or extreme problems. <u>S1400I</u> will include the single item visual analogue scale (VAS) to measure overall health status. We have used a version of the EQ-5D VAS in <u>S1007</u>. In this version, in addition to marking the point on the line reflecting the patient's "health state today", we ask the patient to write the number in the provided box on the form. This substantially



improves data capture and does not require staff time to record this information. Because the EQ-5D will be administered both early in follow up with the other cited measures, as well as later in follow-up (at years 1, 2, & 3) to assess survivorship status, it will be presented as a separate form.

#### Patient Questionnaires: Instructions for Administration

#### Method:

The <u>**S14001**</u> Patient Reported Outcomes (PRO) Questionnaire will be administered to patients via paper-and-pencil at nine time points: Prestudy (prior to treatment initiation) and at the beginning of weeks 3, 5, 7, 9, 11, 13, 24, and 36 weeks after <u>**S14001**</u> registration. In addition, the <u>**S14001**</u> EQ-5D Questionnnaire will be administered at ten time points (Prestudy, weeks 5, 7, 9, 13, 24, 36, and at years 1, 2, and 3. Note: Patients registered to <u>**S14001**</u> prior to 9/1/2016 are not eligible for the PRO study.

#### Frequency and timing:

In general, the assessment schedule emphasizes the early (first 3 months) assessments in order to minimize missing data given the advanced stage disease status of study patients who have a median survival of 9 months and to coincide with patient visits so as to link clinical assessments with patient symptom assessments. The administration of four PRO-CTCAE items will occur at the same times physicians are rating CTCAEs in order to allow for a mapping of symptom and disease progression status as well as to provide an opportunity to see if early change in symptom status is associated with clinical outcomes as reported by Eton et al. (5) However, we will also include PRO assessments at two later time points (24 and 36 weeks) in order to evaluate the extent of longer-term symptom and functional deterioration by treatment armExploratory analyses of the EQ-5D measure will also be conducted at years 1, 2, and 3 for preliminary data on survivorship outcomes at these later time points

As currently designed, the estimated time to administer the components of the PRO questionnaire is based on the estimate of 2-5 minutes for the MDASI and its module (21 items) (<u>11</u>); a total of 10 minutes is estimated for the addition of 7 more NSCLC-SAQ items and the inclusion of the additional items used for the NSCLC-SAQ validation. The time to complete the four PRO-CTCAE toxicity items will be very quick for patients, likely within one minute. (<u>29</u>) Also, patients were found to complete the EQ-5D in only a few minutes. (<u>25</u>) Therefore, we estimate that the inclusion of four PRO-CTCAE and the six EQ-5D items will add two to three minutes, so the total time to complete all 40 items will be approximately  $\leq$  15 minutes. The assessment schedule will also minimize data loss as collection will be linked with the timing of some clinical assessments and submitted simultaneously; staff and patient burden will also be minimized. For the Global Rating of Change (GRC) item, patients will be asked to respond with respect to change in symptom status since the last time the patient completed the questionnaire.

Four of the PRO sets of measures (MDASI-LC, NSCLC-SAQ, two single items measures to be used for validation of the NSCLC-SAQ, and the four PRO-CTCAE items) will be included in a separate, single form. This form, the **S1400I** Patient Reported Outcomes (PRO) Questionnaire will be administered only through week 36. In addition, the GRC item is not administered at PreStudy because it is addressing the patients's perception of change in symptom status. Patients are to be instructed to begin answering the GRC item at week 3.



We are also including longer term (years 1, 2, and 3) follow-up assessments using only the <u>S14001</u> EQ-5D Questionnaire as a measure of survivorship status. The assessment times correspond to protocol-specified clinical outcome assessments. Patients will be asked to complete the <u>S14001</u> EQ-5D Questionnaire in the clinic or by phone if the patient does not come to the clinic. The EQ-5D will be presented to patients in a separate form, the <u>S14001</u> EQ-5D Questionnaire and this form will have a separate cover sheet, the <u>S14001</u> Cover Sheet for the <u>S14001</u> EQ-5D Questionnaire, because it is to be administered for a longer time period.

## Recall period:

The recall period for the MDASI-LC is the last 24 hours; the recall period for the NSCLC-SAQ and the PRO-CTCAE items is the last seven days. Research staff should remind patients to answer questions accordingly. Note, studies have shown psychometric properties remain consistent independent of recall period. (8) The recall period for the EQ-5D is your health status on the day the measure is completed so its recall period is more similar to the MDASI-LC measure. (25)

#### Administration of Questionnaires:

- 1. The first time the patient completes the questionnaires: Please read to the patient the instructions attached to each section. Explain the specific administration times for this protocol. Patients should be directed to report all symptoms and limitations whether or not they are related to the cancer or its treatment.
- It is permissible to assist patients with completing the questionnaires being careful not to influence the patient's response. Note what assistance was required and indicate reason in the Comments section of the <u>S1400I</u> Cover Sheets for the two PRO forms (e.g., elderly, too sick, etc.). Discourage family members from: 1) being present while the patient completes the questionnaire and/or 2) influencing patient responses to the questions.
- 3. It is very important to review the questionnaires after completion by the patient to be sure all of the questions have been answered and that only one answer is marked. If the patient has marked more than one answer per question, ask the patient which answer reflects how he/she is feeling. If the patient skipped a question, tell the patient that a question was not answered and ask if he/she would like to answer the question. Always give the patient the option to refuse. Indicate on the form by the question that the patient did not want to answer this question.
- 4. If a patient refuses or cannot complete the questionnaire for some reason, then this must be documented in the Comments section of the <u>S1400I</u> Cover Sheets, depending on the form being completed by the patient; he/she should be asked to do so at the next scheduled administration time.
- If a patient cannot be available on the scheduled date of assessment for any reason, follow the established protocol windows per Best Practices for SWOG Studies.

http://swog.org/Visitors/QA/Documents/Best%20Practices%20upddate.pdf.

6. Alternatively, if a patient is too sick to complete the questionnaires in the clinic on the scheduled date, the questionnaire can be mailed to the patient or sent home with him/her. A telephone interview must be scheduled and completed within the allowed window (from the scheduled date of the assessment) per Best Practices for SWOG Studies. Patient responses to



questionnaire items are to be obtained during the telephone interview while the patient is looking at a copy of the questionnaire. The date of the telephone interview is to be noted in the Comments section of the <u>S14001</u> Cover Sheets for the PRO forms.

#### Additional quality control procedures:

- When a patient is registered to <u>S1400I</u>, a calendar should be made with dates of upcoming patient-completed questionnaires noted. A copy of this calendar can be given to the patient with the notation that the questionnaires should be completed before receiving treatment. You may wish to photocopy the Study Calendar, <u>Section 9.0</u>, and include the patient's name and specific dates. A copy of this should be kept in the patient file.
- 2. If a patient goes off protocol treatment, continue to administer the patient completed questionnaires according to the protocol-defined assessment schedule (time from registration date).
- The Nurse PRO/QOL Study Coordinator, will monitor compliance on a regular basis using the Expectation Report and the MediData RAVE system. Medidata RAVE will provide reminders of upcoming PRO assessments for a patient.

Anyone involved in the collection of quality of life/PRO data in SWOG trials should review the Patient Reported Outcome Training narrated slide program available on the SWOG website (www.swog.org, CRA Training, Tools of the Trade). This program is designed to standardize the way quality of life data are collected from patients. Contact cancercontrolquestion@crab.org for questions regarding the quality of life/PRO assessments OR the Nurse PRO/QOL Study Coordinator: Susan S. Tavernier, PhD, APRN-CNS, AOCN.

Nurse PRO/QOL Study Coordinator Susan S. Tavernier, PhD, APRN-CNS, AOCN Assistant Professor Accerated Nursing Program Coordinator Idaho State University School of Nursing Phone: 208/373-1783 Email: tavesusa@isu.edu

#### **Eligibility:**

All patients must be eligible for the clinical component of **<u>S14001</u>** and able to complete the PRO instruments in English. That is, the Prestudy PRO questionnaire forms are required for study eligibility if the patient can complete them in English. If a patient is deemed ineligible during the trial but continues protocol treatment, he/she should continue the PRO assessments as scheduled.

## Endpoint(s) to be used in analyses:

For the **<u>S14001</u>** protocol, progression free survival (PFS) and overall survival (OS) are the primary endpoints and the response rate (RR) is a secondary endpoint. The reduction of symptoms based on the validated PRO measures will also be considered a secondary endpoint. The PRO endpoints are described in the PRO Instrument section, above.



## Experimental research techniques/tests employed and expertise of PI:

Research staff should be trained to administer PRO forms by viewing a training module available on the SWOG website [www.swog.org]; from the home page, the program can be found at the QUICKLINKS section as noted above. For example, this training program indicates that research staff should not influence the patient's responses to the questionnaires. Non-SWOG research staff can access the PRO training program directly on the SWOG home page. Research staff will need to enter the reported data into the online Medidata RAVE system.

Efforts to minimize missing data are critical to obtaining interpretable results. Again, the PRO training module addresses methods for reducing missing data.

#### **Statistical Plan:**

#### Primary Endpoints

PRO assessments will occur in conjunction with the clinical follow-up schedule already in place for <u>**S14001**</u> and are scheduled for baseline and weeks 3, 5, 7, 9, 11, 13, 24, and 36. Two primary endpoints will be assessed, corresponding to an early assessment at week 7 when clinically meaningful differences by arm may first occur, and a late assessment at week 13 to identify potentially long-term differences.

The primary endpoint is the MDASI-LC Severity score. With respect to a minimally important difference (MID) between arms, Mendoza et al. (10) identified a difference of 1.06 points in the MDASI severity index (MDASI core 13 items plus the lung-specific items) between lung cancer patients with good vs. poor ECOG performance status, suggesting that such a difference is clinically meaningful. Also, prior literature in other disease settings suggests an MID for the MDASI in the range of 0.98 to 1.21 points. (9-11) Based on these data, we specify an average difference of 1.0 point in the MDASI severity score to be considered clinically meaningful.

Relying on the work by Mendoza et al. (<u>10</u>), the standard deviation for assessment of the severity scale at 6 weeks of chemotherapy treatment was 1.88 points and at 12 weeks was 1.71 points.(Cleeland, personal communication; Mendoza, personal communication). For power calculations, we assume a higher (more conservative) standard deviation of 2.0 points for both time points, corresponding in general to an approach wherein the MID is half a standard deviation. (<u>30,31</u>)

The study specifies a median overall survival of 9 months on the standard arm, which suggests that approximately 10% of patients will have died by the time of their assessment at week 7 under exponential assumptions. In addition, conservatively, we assume another 10% will drop out due to worsening disease, and 10% will be non-adherent. Note that in power calculations, the 10% non-adherence rate reduces the nominal effect size of a 1.0 point target difference to 0.90, while the total 20% dropout rate inflates the estimated sample size by a factor of 1/(1-0.2) or 25%. The study anticipates enrolling n=332 eligible patients. Using a two-arm normal design, a two-sided alpha=.025 test (to account for multiple comparisons using Bonferroni), and the parameters specified above, a difference of 1.0 points between arms can be identified with 92% power.



For the week 13 endpoint, with a median overall survival of 9 months on the standard arm, approximately 20% of patients will have died. In addition, we assume 15% will drop out due to worsening disease and 15% will be non-adherent. With all other parameters the same, a difference of 1.0 points between arms can be specified with 81% power.

Power will vary as a function of the observed standard deviation, the total dropout, and non-adherence as shown in the table below.

		Observed Standard Deviation				
Total Dropout*	Non-Adherence	1.8	1.9	2.0	2.1	2.2
15%	10%	98%	96%	94%	91%	88%
	15%	96%	94%	91%	88%	84%
20%	10%	97%	95%	92%	89%	86%
	15%	95%	92%	89%	85%	82%
25%	10%	96%	93%	90%	87%	84%
	15%	93%	90%	87%	83%	79%
30%	10%	94%	91%	88%	85%	81%
	15%	91%	88%	84%	80%	76%
35%	10%	92%	89%	86%	82%	78%
	15%	89%	85%	81%	77%	73%

#### Table: Power as a Function of Observed SD and Dropout

\* Includes dropout due to worsening disease and death.

Consistent with the design, the co-primary analyses of the week 7 and week 13 severity scores will be conducted using multiple linear regression analyses, adjusting for stratification factors and the baseline severity score as covariates. We will also conduct longitudinal modeling of the outcome measures over time. Power for the longitudinal analysis will be greater since the addition of all available MDASI severity scores over time will provide more information. For longitudinal modeling, linear mixed models will be used. The potential for differential dropout by arm will be mitigated by reminder notifications to site investigators to encourage proper assessment and submission of forms at every required time point for all patients. Dropout patterns will be monitored on an ongoing basis. Nonetheless the potential for non-random dropout exists. Cohort plots will be prepared to examine the extent to which missing data are informative (i.e., scores are higher (worse) for patients just before their data are missing for the subsequent assessment). If there is evidence of non-random dropout, pattern-mixture models will be utilized as a sensitivity analysis. (32-34) Covariates for longitudinal modeling will include intervention assignment, assessment time, their interaction, the baseline score, and a limited set of potential confounding variables (e.g., age).

## Secondary Endpoints

The following additional secondary endpoints will be examined:

A) Descriptive data will be presented, including the difference in the MDASI-LC mean Severity scores for the two treatment arms at baseline and weeks 3, 5, 7, 9, 11, 13, 24, and 36.



- B) We will assess treatment differences at the remaining time points individually. That is, we will also assess the week 3, 5, 7, 9, 11, 13, 24, and 36 scores using a linear regression analysis adjusting for stratification factors and the baseline score.
- C) We will examine the influence of treatment on the MDASCI total score (all 21 items) at the follow-up assessment times.
- D) We will assess whether individual symptom items within the MDASI are prognostic for time to progression. The MDASI core item scale (13 total items), the MDASI Severity scale (core plus lung symptoms, 15 total items), and the MDASI total score (all 21 items) will also be examined for their potential to predict time to progression. First, we will examine whether each of the 21 individual items or the 3 index scores predicts progression in bivariate analyses, adjusted for treatment arm. Candidate items will be further explored in multivariable analyses adjusting for stratification and a limited number of additional covariates (e.g., age). Given that this objective is exploratory, candidate factors that are prognostic will rely on p<.05 and will not adjust for multiple comparisons.</p>

Initial examinations will be based on baseline PRO measures. However, we will also consider the potential prognostic value of the difference between the baseline and Week 5 measures, since deterioration as reflected in the PRO measures may not have begun until after treatment initiation. A landmark approach will be used to avoid endogeneity between the predictor (PRO assessment) and outcome (progression).

- E) We will develop a statistical model that identifies a PRO-based symptom scale that is optimally prognostic for survival outcomes. The first step will be identifying the individual items prognostic for progression at p<.05 as indicated above, with each variable considered on a continuous scale. We will use best subset selection, which determines the "best" model based on the global Chi-squared statistic. (35) The best 2, 3, 4, and 5 variable models will be identified. For final model determination, we will use the mean of the q variables and create an indicator variable, split at the median. We will then identify which of the q-variable models maximizes the hazard ratio in a Cox regression, adjusted for treatment and the stratification variables. We anticipate the model building process will incorporate resampled K-fold cross-validation to adjust for adaptive multiple model selection. This modeling approach will be repeated for overall survival.</p>
- F) We will examine three individual Interference items from the MDASI-LC that address physical function/functional status [General activity; Work (including work around the house); Walking]) to see if this PRO domain is prognostic for progression. Although we do not have a physical function scale as part of the <u>S14001</u> PROs, the individual MDASI-LC items relevant to this domain can provide an exploratory examination of the value of early decline in physical function status for later clinical outcomes.



- G) An exploratory analysis will compare the three treatment-related toxicities (fatigue, pruritis, and diarrhea) by treatment arm at each of the scheduled assessment times using the PRO-CTCAE item scores.
- H) Additional exploratory analyses will describe differences in EQ-5D Index scores by treatment arm, including the examination of Index scores by arm at years 1, 2, and 3 to allow characterization of long term survivorship status for the different treatment groups.

DSMC approval will be required in any instance where early reporting of PRO results is sought.

## VALIDATION

#### Analysis of Preliminary Validation Data for the Unvalidated NSCLC-SAQ Items: Phase II Trials

*Undimensionality* (<u>36</u>): An exploratory factor analysis (EFA) will be done to identify the number of factors present in the NSCLC-SAQ. Support for a single factor measure will be examined with respect to commonly used criteria (e.g., scree test, the percent variance accounted for by the first factor, etc.); a confirmatory factor analysis (CFA) will fit a single factor model to the data to see fit statistics (e.g., CFI, RMSEA, etc.).

Internal Consistency Reliability: Coefficient alpha will be calculated for the either a single set of 7 NSCLC-SAQ items or for the number of scores based on the number of factors suggested by the EFA and CFA. Alphas  $\geq$  0.70 are of interest. (36)

#### Validity (36):

**Construct Validity.** Known groups comparisons will be made for mean scores by a set of variables where the levels of each variable can be hypothesized to generate different mean scores. The SWOG data will examine differences in patient-reported Zubrod performance status (<u>16-18</u>) (0-1, vs. 2) with respect to each item of the NSCLC-SAQ as well as the total score(s) if supported by the analyses above. Patients with performance status=2 would be expected to report worse symptom status on the NSCLC-SAQ that patients categorized as 0-1. We will also examine the comparisons using the patient-reported performance status item.

**Criterion Validity.** Given support for a total score, we expect the correlation between the MDASI-LC and the NSCLC-SAQ to be at least 0.35 (medium effect size for a correlation and 0.50 (large effect size for a correlation. (<u>30</u>) Given that the MDASI-LC is an established measure of lung cancer symptoms, it becomes the criterion measure. Reliability of each of the two measures being correlated is also a factor in their correlation.

**Responsiveness**: The effect size for the change in NSCLC-SAQ total scores between randomization and week 13 will be examined; effect sizes between 1/3 and  $\frac{1}{2}$  of a standard deviation will be of interest. (37) In addition, using the single item patient-reported global rating of change (GRC) in symptom severity status, we will examine the mean scores for patients who report different levels of



change (i.e., those who report much better, much worse, better, worse, nearly the same); we will also combine the much better and the better categories for a three-level measure of perceived change in symptom status. These latter analyses will allow preliminary identification of minimally important differences. (19, 21, 22)

#### Data analysis performed by: Joseph Unger, PhD

## Disclosure of conflict of interest:

There are no conflicts of interest reported

**Other considerations (including plan for financial support, grant submission, etc.):** Additional support will be sought from the Lung-MAP PRO collaborating organizations to conduct analyses of the validation data and to transfer any data from the Statistical Center to any Lung-MAP PRO Working Group collaborators.

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# Informed Consent Model for <u>S1400I</u>

## \*NOTES FOR LOCAL INSTITUTION INFORMED CONSENT AUTHORS:

This model informed consent form has been reviewed by the DCTD/NCI and is the official consent document for this study. Local IRB changes to this document are allowed. (Institutions should attempt to use sections of this document that are in bold type in their entirety.) Editorial changes to these sections may be made as long as they do not change information or intent. If the institutional IRB insists on making additions, deletions, or more substantive modifications to the risks or alternatives sections, they may be justified in writing by the investigator and approved by the IRB. Under these circumstances, the revised language, justification and a copy of the IRB minutes must be forwarded to the SWOG Operations Office for approval before a patient may be registered to this study.

# Please particularly note that the questions related to banking of specimens for future study are in bolded type and may not be changed in any way without prior approval from the SWOG Operations Office.

Readability Statistics:			
Flesch Reading Ease	<u>59.1</u>	(targeted above 55)	
Flesch-Kincaid Grade Level	9.2	(targeted below 8.5)	

- Instructions and examples for informed consent authors are in *[italics]*.
- A blank line, \_\_\_\_\_, indicates that the local investigator should provide the appropriate information before the document is reviewed with the prospective research participant.
- The term "study doctor" has been used throughout the model because the local investigator for a cancer treatment trial is a physician. If this model is used for a trial in which the local investigator is not a physician, another appropriate term should be used instead of "study doctor".
- The dates of protocol updates in the header and in the text of the consent is for reference to this model only and should not be included in the informed consent form given to the prospective research participant.
- The local informed consent must state which parties may inspect the research records. This includes the NCI, the drug manufacturer for investigational studies, any companies or grantors that are providing study support (these will be listed in the protocol's model informed consent form) and SWOG.

"SWOG" must be listed as one of the parties that may inspect the research records in all protocol consent forms for which patient registration is being credited to SWOG. This includes consent forms for studies where all patients are registered directly through the SWOG Data Operations Office, all intergroup studies for which the registration is being credited to SWOG (whether the registration is through the SWOG Data Operations



Office or directly through the other group), as well as consent forms for studies where patients are registered via CTSU and the registration is credited to SWOG.

• When changes to the protocol require revision of the informed consent document, the IRB should have a system that identifies the revised consent document, in order to preclude continued use of the older version and to identify file copies. An appropriate method to identify the current version of the consent is for the IRB to stamp the final copy of the consent document with the approval date. The stamped consent document is then photocopied for use. Other systems of identifying the current version of the consent such as adding a version or approval date are allowed as long as it is possible to determine during an audit that the patient signed the most current version of the consent form.

## \*NOTES FOR LOCAL INVESTIGATORS:

- The goal of the informed consent process is to provide people with sufficient information for making informed choices. The informed consent form provides a summary of the clinical study and the individual's rights as a research participant. It serves as a starting point for the necessary exchange of information between the investigator and potential research participant. This model for the informed consent form is only one part of the larger process of informed consent. For more information about informed consent, review the "Recommendations for the Development of Informed Consent Documents for Cancer Clinical Trials" prepared by the Comprehensive Working Group on Informed Consent in Cancer Clinical Trials for the National Cancer Institute. The Web site address for this document is http://cancer.gov/clinicaltrials/understanding/simplification-of-informed-consent-docs/
- A blank line, \_\_\_\_\_, indicates that the local investigator should provide the appropriate information before the document is reviewed with the prospective research participant.
- Suggestion for Local Investigators: An NCI pamphlet explaining clinical trials is available for your patients. The pamphlet is titled: "Taking Part in Cancer Treatment Research Studies". This pamphlet may be ordered on the NCI Web site at *https://cissecure.nci.nih.gov/ncipubs* or call 1-800-4- CANCER (1-800-422-6237) to request a free copy.
- Optional feature for Local Investigators: Reference and attach drug sheets, pharmaceutical information for the public, or other material on risks. Check with your local IRB regarding review of additional materials.

\*These notes for authors and investigators are instructional and should not be included in the informed consent form given to the prospective research participant.



# Study Title for Study Participants: Targeted Treatment for Advanced Squamous Cell Lung Cancer

# **Official Study Title for Internet Search on** http://www.ClinicalTrials.gov:

 <u>S1400</u>, "A Biomarker-Driven Master Protocol for Previously Treated Squamous Cell Lung Cancer"
 <u>S1400I</u>, "A Phase III Randomized Study of Nivolumab Plus Ipilimumab Versus Nivolumab for Previously Treated Patients with Stage IV Squamous Cell Lung Cancer and No Matching Biomarker (Lung-MAP Sub-Study)"

# What is the usual approach to my lung cancer?

Squamous cell lung cancers make up about one-fourth of non-small cell lung cancer. Various chemotherapy drugs have been shown to improve survival for patients with advanced squamous lung cancer. Most patients will be treated at first with cisplatin or carboplatin in combination with a second chemotherapy drug such as gemcitabine, paclitaxel, docetaxel, or vinorelbine. In addition, an immunotherapy drug called nivolumab was recently FDA approved for patients with squamous lung cancer who previously received chemotherapy.

## What are my other choices if I do not take part in this study?

Your other choices may include:

- You may choose to have the usual approach described above
- You may choose to take part in a different study, if one is available
- You may choose to get comfort care, also called palliative care. This type of care helps reduce pain, tiredness, appetite problems and other problems caused by the cancer. It does not treat the cancer directly, but instead tries to improve how you feel. Comfort care tries to keep you as active and comfortable as possible.

## Why is this study being done?

There are several investigational treatments that are being tested in various sub-studies as part of this study. You will have already received the information on your biomarker testing. You have been assigned to this treatment study because your tumor sample did not have a biomarker that matches one of the treatment studies or because you were not a candidate for a biomarker-matched treatment study. You have been assigned to a treatment study testing a drug that works with your immune system to fight your cancer. For this sub-study, you will be assigned to treatment with either nivolumab (the current standard of care) or to nivolumab combined with ipilimumab (the investigational therapy). The purpose of this sub-study is to learn if the study drug will improve the average time to cancer worsening by more than a month. Nivolumab combined with ipilimumab is investigational for this study. Nivolumab combined with ipilimumab may or may not shrink your cancer but it could also cause side effects. This study will allow the researchers to learn any good and bad effects of nivolumab combined with ipilimumab.



## There will be about 350 patients taking part in this study.

## What are the study groups?

You have been assigned to this sub-study because your tumor sample did not have any of the biomarkers being tested in the other sub-studies or you were not eligible to participate on the other sub-studies. This sub-study has two study groups (arms). A computer will by chance assign you to a treatment arm in the study. This is called randomization. This is done by chance because no one knows if one study arms is better or worse than the other. You have an equal chance of receiving the study drug or the standard treatment.

Patients assigned to Arm 1 will receive the study drug nivolumab combined with ipilimumab and nivolumab will be given via vein over 30 minutes on Day 1 of every 14 day cycle. Ipilimumab will be given via vein over 60 minutes on Day 1 of every **third cycle**. A cycle is 14 days.

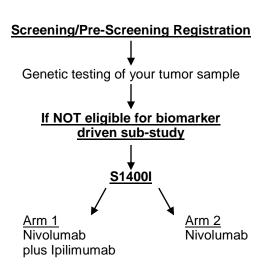
Patients assigned to Arm 2 will receive the study drug nivolumab alone, one of the standard treatments for this cancer. Nivolumab will be given via vein over 30 minutes on Day 1 of every 14 day cycle. A cycle is 14 days.

Arm	Drug	How often is it given?	How is it given?	What days is it given on?	What is the cycle duration?
1	Nivolumab	Once, every 14 days	Into a vein	Day 1	14 days
1	lpilimumab	Once, every 42 days	Into a vein	Day 1 of every third cycle	14 days
2	Nivolumab	Once, every 14 days	Into a vein	Day 1	14 days

The treatments on this study are described in the table below:

Another way to find out what may happen to you during the study is to read the chart below. Start reading at the top of the chart and read down, following the arrows.





## How long will I be in this study?

You will receive treatment until your disease worsens. After you are finished taking study treatment, the study doctor will continue to watch you for side effects and follow your condition for 3 years from the time you started treatment. At the follow up visits you will have a physical exam, blood tests, and scans. Your doctor may give you other tests or procedures if they think they are needed.

# What extra tests and procedures will I have if I take part in this study?

Most of the exams, tests, and procedures you will have are part of the usual approach for your cancer. However, there are some extra exams, tests, and/or procedures that you will need to have if you take part in this study.

Before you begin the study:

- Brain CT or MRI (to check if your cancer may have spread to your brain)
- (Deleted 7/19/16)
- Blood tests to assess your pancreas functions and your levels of hormones coming from your thyroid
- Questionnaires You will complete questionnaires in English on how you are feeling physically and how you are performing your daily activities. You will also be asked questions about symptoms you may be having. Researchers will use this information to learn more about how cancer and cancer treatment affects people. (*Added 7/19/16*)

Note: You might receive the above tests even if you were not on the study as part of your cancer treatment.

You will have a CT or MRI done before you begin the study and then approximately every 6 weeks for the first year, then every 3 months until your disease worsens. Your doctor will review



the CT scans or other radiographic scans done to check on your tumors on a regular basis. These scans will also be sent to a central location for review. This central review is part of a total study analysis only. Information of your scans from the central review will not be sent back to you or your doctor.

If the exams, tests, and procedures show that you can take part in the study, and you choose to take part, then you will need the following extra tests. They are not part of the usual approach for your type of cancer.

During the study:

- Blood tests to assess your pancreas functions and your levels of hormones coming from your thyroid
- Questionnaires You will complete questionnaires in English, on how you are feeling physically and how you are performing your daily activities. You will also be asked questions about symptoms you may be having. Researchers will use this information to learn more about how cancer and cancer treatment affects people. (*Added 7/19/16*)

The blood test to assess your pancreatic functions will be done before you begin the study and approximately every 6 weeks. (*Revised 7/19/16*) The blood test to assess your levels of hormones coming from your thyroid will be done before you begin the study and approximately every 6 weeks.

You will be asked to complete forms before you start the study treatment, at weeks 3, 5, 7, 9, 11, 13, 24, 36, and at the end of years 1, 2, and 3. The forms will take about 15 minutes to complete. Some questions on the forms will ask about symptoms such as shortness of breath, itching, and diarrhea; you will also be asked if the symptoms interfere with your daily life. If you feel uncomfortable answering any of the questions, you can skip any you do not want to answer. (*Added 7/19/16*)

Neither you nor your health care plan/insurance carrier will be billed for the following tests for this study:

- Blood tests to assess pancreatic functions (Amylase and Lipase tests)
- Blood tests to assess for the thyroid tests (TSH, Free T3/T4)

## What possible risks can I expect from taking part in this study?

If you choose to take part in this study, there is a risk that you may:

- Lose time at work or home and spend more time in the hospital or doctor's office than usual
- Be asked sensitive or private questions which you normally do not discuss



The treatment used in this study may affect how different parts of your body work such as your liver, kidneys, heart, and blood. The study doctor will be testing your blood and will let you know if changes occur that may affect your health.

There is also a risk that you could have side effects from the study drug(s)/study approach.

Here are important points about side effects:

- The study doctors do not know who will or will not have side effects.
- Some side effects may go away soon, some may last a long time, or some may never go away.
- Some side effects may interfere with your ability to have children.
- Some side effects may be serious and may even result in death.

Here are important points about how you and the study doctor can make side effects less of a problem:

- Tell the study doctor if you notice or feel anything different so they can see if you are having a side effect.
- The study doctor may be able to treat some side effects.
- The study doctor may adjust the study drugs to try to reduce side effects.

The tables below show the most common and the most serious side effects that researchers know about. There might be other side effects that researchers do not yet know about. If important new side effects are found, the study doctor will discuss these with you.



## **Possible Side Effects of Nivolumab**

## **Special precautions**

Side effects of nivolumab may happen anytime during treatment or even after your treatment has ended. Some of these problems may happen more often when BMS-936558 is used in combination with ipilimumab. **Call or see your healthcare provider right away if you develop any problems listed below or the symptoms get worse.** (*Added 1/19/17*)

## COMMON, SOME MAY BE SERIOUS

In 100 people receiving nivolumab, more than 20 and up to 100 may have:

Tiredness

## **OCCASIONAL, SOME MAY BE SERIOUS**

In 100 people receiving nivolumab, from 4 to 20 may have: (Table Replaced 1/19/17)

- Anemia which may require blood transfusion
- Swelling and redness of the eye
- Pain in belly
- Diarrhea, nausea, loss of appetite
- Dry mouth
- Fever
- Swelling and redness at the site of the medication injection
- Bruising, bleeding
- Pain or swelling of the joints
- Reaction during or following a drug infusion which may cause fever, chills, rash

Nivolumab may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

- Lung problems (pneumonitis and pleural effusion). Symptoms may include: new or worsening cough, chest pain, shortness of breath.
- Intestinal problems (colitis) that can rarely lead to tears or holes in your intestine. Signs and symptoms of colitis may include: diarrhea or increase in bowel movements, blood in your stools or dark, tarry, sticky stools, severe belly pain or tenderness.
- Skin: itching; rash, blisters including inside the mouth; loss of skin pigment
- Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly.
- Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting



## **RARE, AND SERIOUS**

In 100 people receiving nivolumab, 3 or fewer may have: (*Table Replaced 1/19/17*)

• Allergic reaction which may cause rash, low blood pressure, wheezing, shortness of breath, swelling of the face or throat

Nivolumab may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

- Visual disturbances which may cause double vision, blurred vision, or loss of vision with a chance of blindness
- A condition with high blood sugar which leads to tiredness, frequent urination, excessive thirst, headache, nausea and vomiting, and can result in coma
- Kidney problems, including nephritis and kidney failure requiring dialysis. Signs of kidney problems may include: decrease in the amount of urine, blood in your urine, ankle swelling.
- Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body.
- Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine
- Inflammation of the brain (meningitis/encephalitis), which may cause: headache, confusion, sleepiness, seizures, and stiff neck
- Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement.
- Complications associated with stem cell transplant using donor stem cells (allogeneic stem cell transplant). These complications are caused by attack of donor cells on the host organs (inducing liver, skin and gut), and can lead to death. If you are considering an allogeneic stem transplant after participating in this study, please tell your doctor that you have received Nivolumab therapy, since the risk and severity of transplant-associated complications may be increased.



## **Possible Side Effects of Ipilimumab**

## **Special precautions**

Side effects of ipilimumab may happen anytime during treatment or even after your treatment has ended. Some of these problems may happen more often when ipilimumab is used in combination with nivolumab. **Call or see your healthcare provider right away if you develop any problems listed below or the symptoms get worse.** (*Added 1/19/17*)

## COMMON, SOME MAY BE SERIOUS

In 100 people receiving ipilimumab, more than 20 and up to 100 may have: (*Table Replaced* 1/19/17)

- Diarrhea, nausea
- Tiredness

Ipilimumab may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

• Skin: itching; rash, blisters including inside the mouth (can be severe); hives



## **OCCASIONAL, SOME MAY BE SERIOUS**

In 100 people receiving ipilimumab, from 4 to 20 may have: (*Table Replaced 1/19/17*)

- Abnormal heartbeat
- Hearing loss
- Swelling and redness of the eye
- Pain in belly
- Difficulty swallowing, vomiting, loss of appetite
- Fever
- Dehydration
- Pain or swelling of the joints
- Reaction during or following a drug infusion which may cause fever, chills, rash
- Low blood pressure which may cause feeling faint

Ipilimumab may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

- Lung problems (pneumonitis). Symptoms may include: new or worsening cough, chest pain, shortness of breath.
- Intestinal problems (colitis) that can rarely lead to tears or holes in your intestine. Signs and symptoms of colitis may include: diarrhea or increase in bowel movements, blood in your stools or dark, tarry, sticky stools, severe belly pain or tenderness.
- Kidney problems, including nephritis and kidney failure requiring dialysis. Signs of kidney problems may include: decrease in the amount of urine, blood in your urine, ankle swelling.
- Problem of the muscle, including inflammation, which can cause muscle pain and severe muscle weakness sometimes with dark urine.
- Problem of the nerves that can cause paralysis. Signs and symptoms may include: numbness, tingling of hands and feet; weakness of the arms, legs and facial muscle movement.
- Liver problems (hepatitis) which can cause liver failure. Signs and symptoms of hepatitis may include: yellowing of your skin or the whites of your eyes, severe nausea or vomiting; drowsiness; pain in the right upper belly.
- Hormone gland problems (especially the thyroid, pituitary and adrenal glands, and pancreas). Signs and symptoms may include: headaches that will not go away or unusual headaches, extreme tiredness or changes in mood or behavior decreased sex drive; weight loss or weight gain; excessive thirst or urine; dizziness or fainting.



## RARE, AND SERIOUS

In 100 people receiving ipilimumab, 3 or fewer may have: (*Table Replaced 1/19/17*)

- Bleeding
- Blockage of the bowels which may cause constipation
- Swelling of the brain which may cause headache, blurred vision, stiff neck, and/or confusion

Ipilimumab may cause your immune system to attack normal organs and cause side effects in many parts of the body. These problems may include but are not limited to:

- A condition with high blood sugar which leads to tiredness, frequent urination, excessive thirst, headache, nausea and vomiting, and can result in coma
- Heart problems including inflammation and heart failure. Symptoms and signs of heart problem may include: Shortness of breath, swelling of the ankle and body.
- Complications associated with stem cell transplant using donor stem cells (allogeneic stem cell transplant). These complications are caused by attack of donor cells on the host organs (inducing liver, skin and gut), and can lead to death. If you are considering an allogeneic stem transplant after participating in this study, please tell your doctor that you have received ipilimumab therapy, since the risk and severity of transplant-associated complications may be increased.

\*This is applicable for patients who have undergone a stem cell transplant. (Added 3/3/16)

Let your study doctor know of any questions you have about possible side effects. You can ask the study doctor questions about side effects at any time.

Reproductive risks: You should not get pregnant, breastfeed, or father a baby while in this study as the drugs used in this study could be very damaging to an unborn baby. Women who receive these drugs should use effective contraception during the period of the trial and for at least 23 weeks (5 months) after completion of treatment. Men who receive these drugs should use effective contraception during the period of the trial and for at least 31 weeks (7 months) after completion of treatment. Check with the study doctor about what types of birth control, or pregnancy prevention, to use while in this study.

# What possible benefits can I expect from taking part in this study?

It is not possible to know at this time if the study drug/study approach is better than the usual approach, so this study may or may not help you. This study will help researchers learn things that will help people in the future.



# Can I stop taking part in this study?

Yes. You can decide to stop at any time. If you decide to stop for any reason, it is important to let the study doctor know as soon as possible so you can stop safely. If you stop, you can decide whether or not to let the study doctor continue to provide your medical information to the organization running the study.

The study doctor will tell you about new information or changes in the study that may affect your health or your willingness to continue in the study.

The study doctor may take you out of the study:

- If your health changes and the study is no longer in your best interest
- If new information becomes available
- If you do not follow the study rules
- If the study is stopped by the sponsor, IRB or FDA.

## What are my rights in this study?

Taking part in this study is your choice. No matter what decision you make, and even if your decision changes, there will be no penalty to you. You will not lose medical care or any legal rights.

For questions about your rights while in this study, call the \_\_\_\_\_\_\_ (insert name of center) Institutional Review Board at \_\_\_\_\_\_\_ (insert telephone number). (Note to Local Investigator: Contact information for patient representatives or other individuals at a local institution who are not on the IRB or research team but take calls regarding clinical trial questions can also be listed here.)

# What are the costs of taking part in this study?

The nivolumab and ipilimumab will be supplied at no charge while you take part in this study. The cost of getting the nivolumab and ipilimumab ready and giving it to you is not paid by the study sponsor so you or your insurance company may have to pay for this. It is possible that the nivolumab and ipilimumab may not continue to be supplied while you are on the study. Although not likely, if this occurs, your study doctor will talk to you about your options.

You and/or your health plan/insurance company will need to pay for all of the other costs of treating your cancer while in this study, including the cost of tests, procedures, or medicines to manage any side effects, unless you are told that certain tests are supplied at no charge. Before you decide to be in the study, you should check with your health plan or insurance company to find out exactly what they will pay for.

You will not be paid for taking part in this study.



# What happens if I am injured or hurt because I took part in this study?

If you are injured or hurt as a result of taking part in this study and need medical treatment, please tell your study doctor. The study sponsors will not offer to pay for medical treatment for injury. Your insurance company may not be willing to pay for study-related injury. If you have no insurance, you would be responsible for any costs.

If you feel this injury was a result of medical error, you keep all your legal rights to receive payment for this even though you are in a study.

## Who will see my medical information?

Your privacy is very important to us and the researchers will make every effort to protect it. Your information may be given out if required by law. For example, certain states require doctors to report to health boards if they find a disease like tuberculosis. However, the researchers will do their best to make sure that any information that is released will not identify you. Some of your health information, and/or information about your specimen, from this study will be kept in a central database for research. Your name or contact information will not be put in the database.

There are organizations that may inspect your records. These organizations are required to make sure your information is kept private, unless required by law to provide information. Some of these organizations are:

- The study sponsor, SWOG, and the drug company supporting the treatment sub-study you are on.
- The Institutional Review Board, IRB, is a group of people who review the research with the goal of protecting the people who take part in the study.
- The Food and Drug Administration (FDA) and the National Cancer Institute (NCI) in the U.S., and similar ones if other countries are involved in the study
- TRIAD-Your medical images with clinical study data (e.g., the treatment Group you are assigned to, etc.) will be transferred to the Ohio State University in Columbus, Ohio. Your medical images will be reviewed by physicians at this organization as part of the study analysis for this trial. In addition, information gained from this study may be used in the future for additional research and only that data would be provided to other scientist for future research. Your name, and any other information that could be used to identify you personally, will not be included.

# Where can I get more information?

You may visit the NCI Web site at http://cancer.gov/ for more information about studies or general information about cancer. You may also call the NCI Cancer Information Service to get the same information at: 1-800-4-CANCER (1-800-422-6237).



A description of this clinical trial will be available on http://www.ClinicalTrials.gov, as required by U.S. Law. This Web site will not include information that can identify you. At most, the Web site will include a summary of the results. You can search this Web site at any time.

[Note to Informed Consent Authors: The above paragraph complies with the new FDA regulation found at 21CFR50.25 (c) and must be included verbatim in all informed consent documents. The text in this paragraph cannot be revised.

## Who can answer my questions about this study?

You can talk to the study doctor about any questions or concerns you have about this study or to report side effects or injuries. Contact the study doctor \_\_\_\_\_\_ (insert name of study doctor[s]) at \_\_\_\_\_\_ (insert telephone number).

## This section is about optional studies you can choose to take part in

This part of the consent form is about optional studies that you can choose to take part in. You will not get health benefits from any of these studies. The researchers leading this optional study hope the results will help other people with cancer in the future.

The results will not be added to your medical records, nor will you or your study doctor know the results.

You will not be billed for these optional studies. You can still take part in the main study even if you say 'no' to any or all of these studies. If you sign up for but cannot complete any of the studies for any reason, you can still take part in the main study.

Circle your choice of "yes" or "no" for each of the following studies.

## **1.** Optional Additional Biopsy and Optional Sample Collections for Laboratory Studies and/or Biobanking for Possible Future Studies

Researchers are trying to learn more about cancer, diabetes, and other health problems. Much of this research is done using samples from your tissue, blood, urine, or other fluids. Through these studies, researchers hope to find new ways to prevent, detect, treat, or cure health problems.



Some of these studies may be about genes. Genes carry information about features that are found in you and in people who are related to you. Researchers are interested in the way that genes affect how your body responds to treatment.

If you choose to take part in this part of the study, the researchers would also like to ask your permission to store and use your samples and health information for medical research. The research that may be done is unknown at this time. Storing samples for future studies is called "biobanking". The Biobank is being run by SWOG and supported by the National Cancer Institute.

# WHAT IS INVOLVED?

If you agree to take part, here is what will happen next:

- 1) Your specimens may be stored in the Biobank, along with samples from other people who take part. These specimens may include:
  - About 1 tablespoon of blood will be collected from a vein in your arm (at the same time as other study blood tests) on Weeks 3, 7, 9, and again if your cancer gets worse.
  - A sample of tissue will be collected from an optional extra biopsy if your cancer gets worse after treatment on this study. Common side effects of a biopsy are a small amount of bleeding at the time of the procedure, pain and bruising at the biopsy site, which can be treated with regular pain medications.

Rarely, an infection can occur. Rarely, patients may experience partial lung collapse that may require a chest tube or breathing machine. You will sign a separate consent form before the biopsy is taken. This will be a standard surgical consent form from the institution where the biopsy procedure takes place. The samples will be kept until they are used up.

- 2) Qualified researchers can submit a request to use the materials stored in the Biobanks. A science committee at the clinical trials organization, and/or the National Cancer Institute, will review each request. There will also be an ethics review to ensure that the request is necessary and proper. Researchers will not be given your name or any other information that could directly identify you.
- 3) Neither you nor your study doctor will be notified when research will be conducted or given reports or other information about any research that is done using your samples.
- 4) Some of your genetic and health information may be placed in central databases that may be public, along with information from many other people. Information that could directly identify you will not be included.



# WHAT ARE THE POSSIBLE RISKS?

- 1) There is a risk that someone could get access to the personal information in your medical records or other information researchers have stored about you.
- 2) There is a risk that someone could trace the information in a central database back to you. Even without your name or other identifiers, your genetic information is unique to you. The researchers believe the chance that someone will identify you is very small, but the risk may change in the future as people come up with new ways of tracing information.
- 3) In some cases, this information could be used to make it harder for you to get or keep a job or insurance. There are laws against the misuse of genetic information, but they may not give full protection. There can also be a risk in knowing genetic information. (*Deleted 7/19/16*) The Genetic Information Nondiscrimination Act of 2008, also referred to as GINA, was passed by Congress to protect Americans from such discrimination. The law prevents discrimination from health insurers and employers. This law does not cover life insurance, disability insurance and long-term care insurance. New health information about inherited traits that might affect you or your blood relatives could be found during a study. The researchers believe the chance these things will happen is very small, but cannot promise that they will not occur.

# HOW WILL INFORMATION ABOUT ME BE KEPT PRIVATE?

Your privacy is very important to the researchers and they will make every effort to protect it. Here are just a few of the steps they will take:

- 1) When your samples are sent to the researchers, no information identifying you (such as your name) will be sent. Samples will be identified by a unique code only.
- 2) The list that links the unique code to your name will be kept separate from your sample and health information. Any Biobank and SWOG staff with access to the list must sign an agreement to keep your identity confidential.
- 3) Researchers to whom SWOG sends your sample and information will not know who you are. They must also sign an agreement that they will not try to find out who you are.
- 4) Information that identifies you will not be given to anyone, unless required by law.
- 5) If research results are published, your name and other personal information will not be used.

# WHAT ARE THE POSSIBLE BENEFITS?

You will not benefit from taking part.

The researchers, using the samples from you and others, might make discoveries that could help people in the future.



# ARE THERE ANY COSTS OR PAYMENTS?

Neither you nor your health care plan/insurance carrier will be billed for the collection or testing of the tumor tissue or blood samples that will be used for this study. (*Revised11/18/15*) You will not be paid for taking part. If any of the research leads to new tests, drugs, or other commercial products, you will not share in any profits.

# WHAT IF I CHANGE MY MIND?

If you decide you no longer want your samples to be used, you can call the study doctor, , (insert name of study doctor for main trial) at

*(insert telephone number of study doctor for main trial)* who will let the researchers know. Then, any sample that remains in the bank will no longer be used. Samples or related information that have already been given to or used by researchers will not be returned.

# WHAT IF I HAVE MORE QUESTIONS?

If you have questions about the use of your samples for research, contact the study doctor, \_\_\_\_\_\_, (insert name of study doctor for main trial), at \_\_\_\_\_\_

(insert telephone number of study doctor for main trial).

Please circle your answer to show whether or not you would like to take part in each option:

# SAMPLES FOR FUTURE RESEARCH STUDIES:

1. My tumor tissue and related information may be kept in a Biobank for use in future health research.

YES NO

2. My blood samples and related information may be kept in a Biobank for use in future health research.

YES NO

This is the end of the section about optional studies.

# My Signature Agreeing to Take Part in the Main Study

I have read this consent form or had it read to me. I have discussed it with the study doctor and my questions have been answered. I will be given a signed copy of this form. I agree to take part in the main study and any additional studies where I circled 'yes'.

Participant's signature\_\_\_\_\_

Date of signature\_\_\_\_\_

