

Welcome to Orthopaedics! You are about to be exposed to a challenging surgical subspecialty that is unlike any other. Both the faculty and resident staff are highly invested in maximizing your educational experience while you are on the rotation, and we encourage you to work hard so that you can gain the most from your block time on the Orthopaedic Surgery elective. Regardless of your career interest level in the field, we do believe that a fundamental knowledge of musculoskeletal pathology is important for all practitioners. In line with this belief, we have developed the following objectives and expectations for your rotation (below). These goals are in line with the overall mission of the General Surgery Clerkship. Diligent reading and practical operating room experience, combined with conscientious ward work will allow you to appropriately achieve these objectives. Above all else – relax, be yourself, and have fun!

Contained within this document is some general administrative information regarding your rotation (along with the aforementioned rotation objectives), a description of the rotations itself, a guide regarding the evaluation process, and helpful links/reading suggestions to help you prepare for the rotation.

Your Rotation

Your time on the Orthopaedic elective will consist of either a 3 or 4 week consecutive block depending on the length of overall General Surgery Clerkship. You will be exposed to a breadth of Orthopaedics via weekly rotations on our various services (sub-rotations). You will be pre-assigned to these services in an organized fashion that will allow you truly experience a comprehensive education in the care of the injured musculoskeletal patient. Each sub-rotation will match you with a resident and/or an attending/s that will help guide you through the process, allowing for a true mentorship, thus optimizing your educational experience. Every student will rotate thru either the VAMC or the Trauma Service to be exposed to General Orthopaedics, and your remaining weeks will be split between our specialty services. These include Sports/Shoulder Surgery, Pediatric Orthopaedics, Spine Surgery, and Hand Surgery. Rotations are subject to change based on staff availability.

Trauma Rotation: Report to the Freiberg Library, MSB, Room 3057 at 6:15 am (Monday) for morning rounds with the trauma team. You will be assigned to round on the first patient on the census starting the second day, and this will be the patient that you follow for the week (present in morning, note writing, etc.). Four of the five days will be spent in the OR with the PGY-3 that is on the service, and one of the five days (Wednesday of the rotation) will be spent with the intern (helping with floor work, seeing consults, etc.).

VAMC Rotation: You will need to page or email the PGY-3 that is on the service Sunday night to determine where to report on Monday morning (Kim Reising will assist). Monday is an OR day, and you will then follow one of the operative patients from that day for the remaining portion of the week (daily rounds, note writing, ward work, etc.). Your clinical and OR schedule will match the PGY-3's schedule.

Sports/Shoulder Rotation: During this rotation you will be exposed to our Director of Medical Student Education (Dr. Grawe). This sub-rotation will mainly consist of an outpatient (clinic and OR) experience, and your schedule will mirror that of the PGY-3 that is on the Shoulder Service. You will report to the 2nd floor of the MAB, Orthopaedics and Sports Medicine, at 8am on Monday Morning (Dr. Grawe's clinic).

Pediatric Orthopaedics Rotation: You will need to page or email the PGY-2 that is on the service Sunday night to determine where to report on Monday morning (Kim Reising will assist). There is a diverse amount of pathology to be seen on this sub-rotation, and it will be impossible to see it all. You will be assigned to OR cases each day by the chef resident, and will rotate through the DUDE clinic for two afternoons.

Spine Surgery Rotation: This is one of the few rotations where you will be assigned to an attending only (Dr. Asghar). You will need to report to the UP clinic (West Chester) at 8am, on the Monday you start on Spine. Your schedule will mirror his, and will consist of a balance between clinic and the operating room.

Hand Surgery: You will need to page or email the PGY-3 that is on the service Sunday night to determine where to report on Monday morning (Kim Reising will assist). Your clinical and OR schedule will match the PGY-3's schedule.

On-Call/Key: Call will be taken three times while on the rotation, and post-call responsibilities will be consistent with the policies of the College of Medicine. All call will be taken at UCMC with the trauma team. You will be assigned two weekday calls and one weekend call (a Saturday). For weekday call you will report to MSB room 4108 at 6:00pm to sign-out with the resident on-call with you. For the Saturday call you will report to the Freiberg Library at 6:15 am to begin your call (the start of rounds). If there are any issues the Orthopaedic resident on-call can be reached at 584-9924 ext 0907. Call rooms are located in Mt Reid (room 422), the key can be obtained from the badge office or Kim Reising.

Rotation Objectives

- 1) Garner the ability to efficiently and effectively evaluate and treat common musculoskeletal injuries
- 2) Gain insight to the basics of the Orthopaedic physical exam
- 3) Read and describe x-rays of long bones
- 4) Basic principles of fracture management, including techniques of plaster casting
- 5) Appropriate exposure to a wide variety of common Orthopaedic Surgical Procedures
- 6) Ability to successfully manage the post-operative Orthopaedic patient, including pain control and wound management

Participation: In order to achieve the above objectives it is paramount that you become an active member of the team that you are assigned. The above sub-rotation descriptions can be used as a guide in conjunction with the following “rules of thumb”.

- 1) Participation in surgery; scrub in on cases as directed by attending or resident
- 2) Attendance at outpatient clinic; students will see and present patients to attendings/senior resident
- 3) Work-up of selected inpatients; this will vary based on patient volume and the assigned sub-rotation
- 4) You are expected to wear appropriate attire to clinic, and present yourself in a professional and courtesy fashion throughout the entirety of your rotation.
- 5) You are expected to attend all lectures that are given within the Department of Orthopaedics, as long as they do not conflict with the required lectures of the General Surgery Clerkship

Evaluation Process

Your final grade will be consistent with the policies of the General Surgery Clerkship. However, we will evaluate your performance based upon the following criteria. Each sub-rotation will be applied as an equal 1/4 of your overall evaluation. Your evaluation form is a standardized form that will be utilized throughout the rotation (attached). The final 1/4 will come from your case presentation (description below), that will be given at the end of the rotation. All evaluations will be compiled into summary format, and signed by Dr. Grawe.

Case Presentation: This will be given on the final Friday morning of your rotation thru Orthopaedics. **It will be a 10-minute PowerPoint presentation. Do not go over your allotted time.** The audience will be Dr. Grawe (evaluator) and the other medical students on the rotation with you. Ideally, you will present on a patient whom you had a continuity of care experience with, i.e. you were able to interact with them throughout their entire point of care (pre-operatively, peri-operatively, and post-operatively). The purpose is for you and everyone in the room to learn something, while concomitantly generating a healthy discussion. The PowerPoint must include:

- A. Introduction
- B. Case Presentation
 - 1) Complete History
 - 2) Regional Orthopedic Exam
 - 3) Operative treatment, and immediate post-operative course – always include imaging when possible
- C. Discussion of Topic
 - 1) May include: historical perspective, anatomy, pathophysiology, treatment indications, natural history, evidenced based outcomes, and pertinent classification systems
- D. References

* Simple pearls would be to not make each slide too wordy, and to use contrasting background and font colors

Key Orthopaedic Reference Material During Your Rotation

Journals (all available electronically via the Health Sciences Library):

- 1) Journal of American Academy of Orthopaedic Surgeons (JAAOS) – Dedicated to review articles on various orthopaedic topics. A must for preparation the night before surgical cases
- 2) Journal of Bone and Joint Surgery (JBJS) – Known as “The Journal” in the Orthopaedic community.

Books (all available at the Freiberg Library, Room 3057, MSB):

- 1) Campbell’s Operative Orthopaedics – can be dense, but very comprehensive
- 2) Operative Techniques in Orthopaedic Surgery – excellent for a concise review of surgical procedures
- 3) Surgical Exposures in Orthopaedics: The Anatomic Approach – AKA Hoppenfeld’s, a must read for pertinent surgical anatomy encountered during surgery

* All books must be promptly returned to the library after their use.

Internet Resources:

- 1) Vumedi – a free online resource that allows you to view surgical procedures
- 2) AAOS.org

Administrative Support

The following people will assist you along the way, and it is imperative you treat all members of our staff with the utmost respect.

Kim Reising – program coordinator. She will be your main point of contact throughout the rotation. Her email is kim.weingartner@uc.edu. Her office is located in the MSB, room 4110.

Deborah Yates – main point of contact at the VAMC. Her email address is Deborah.yates2@va.gov

Janis Messer – main point of contact at CCHMC. Her email address is Janis.messer@cchma.org

Brian Grawe, MD – director of medical student education, within the Department of Orthopaedics. His email address is grawebn@ucmail.uc.edu.

Please do not hesitate to contact us with any questions or issues that may arise during your time with Orthopaedics. Dr. Grawe is highly invested in your education and willing to confidentially discuss any problems that may come about. We are excited to have you rotate with us... remember work hard, be yourself, and have fun.