



The Illustrative Female: Mary Maciel and Other Women in 20th Century Medical Illustration

Thursday, April 20th, 2023

April 2023 Study of the Month:

Healthy Participant Study for Children and Teens 3 to 17 Years Old

What

A study to learn more about people's risks to common health conditions through genetic testing and medical and family histories

Who

Healthy children and teens 3 to 17 years old and possibly one or both of their parents may be able to participate

Pay

Up to \$100

Contact

If interested, scan the QR code and visit www.emerge.study to complete a survey or contact the study team at e4@cchmc.org or 513-835-3649.





Friday, May 5th , 2023

Mental Health Awareness Month

Team Science:

Understanding Communication Styles

**Angela Mendell,
MS, CCRP**

**Elizabeth Kopras,
Senior Research Associate
Pulmonary, Critical Care &
Sleep Medicine**

**Stephanie
Schuckman,
MA, CLG, IDI-QA**

Compliance Corner

New OCR SOP: Delegation of Authority

This SOP establishes the method by which the Principal Investigator (PI) delegates study-related duties to applicable personnel. This includes the PI themselves, sub-investigators or co-investigators, study coordinators, and other study staff who perform study-related duties.

Please refer to the following UC Health SOP:

UCH-OCR-OPS-SOP-020-01: Delegation of Authority for Clinical Research

All OCR SOPs are accessible from the UC Health intranet home page utilizing the Compliance 360 policy search function

or reach out to the Office of Clinical Research with any questions or concerns.

This SOP will also be provided on the UC College of Medicine Template once approved

The New Office of Clinical Research COM Bearcats Landing Webpage:

The older OCR Bearcats Landing website has migrated to a NEW and IMPROVED webpage under the College of Medicine Bearcats Landing website.

As of March 29th, 2023, the New OCR COM Bearcats Landing webpage is Live.

If you attempt to log on to the old OCR website, you will be redirected to the new webpage.

[Click here for the new OCR COM Bearcats Landing Webpage](#)

UC / UC Health Clinical Research Orientation and Training (CRO&T)

Thursday, June 8th, 2023

9:00 am - 3:00 pm

Virtual presentation

The last day of registration is
Friday, June 2nd, 2023

Register [Here](#)

Please reach out to Nate Harris,
nate.harris@uchealth.com for any questions

UC/UCH Clinical Research Professional

HAPPY HOUR

May 18th, 2023

5:00pm – 8:00pm

OTR Stillhouse

2017 Branch St, Cincinnati, OH 45214



Today's Presentation:

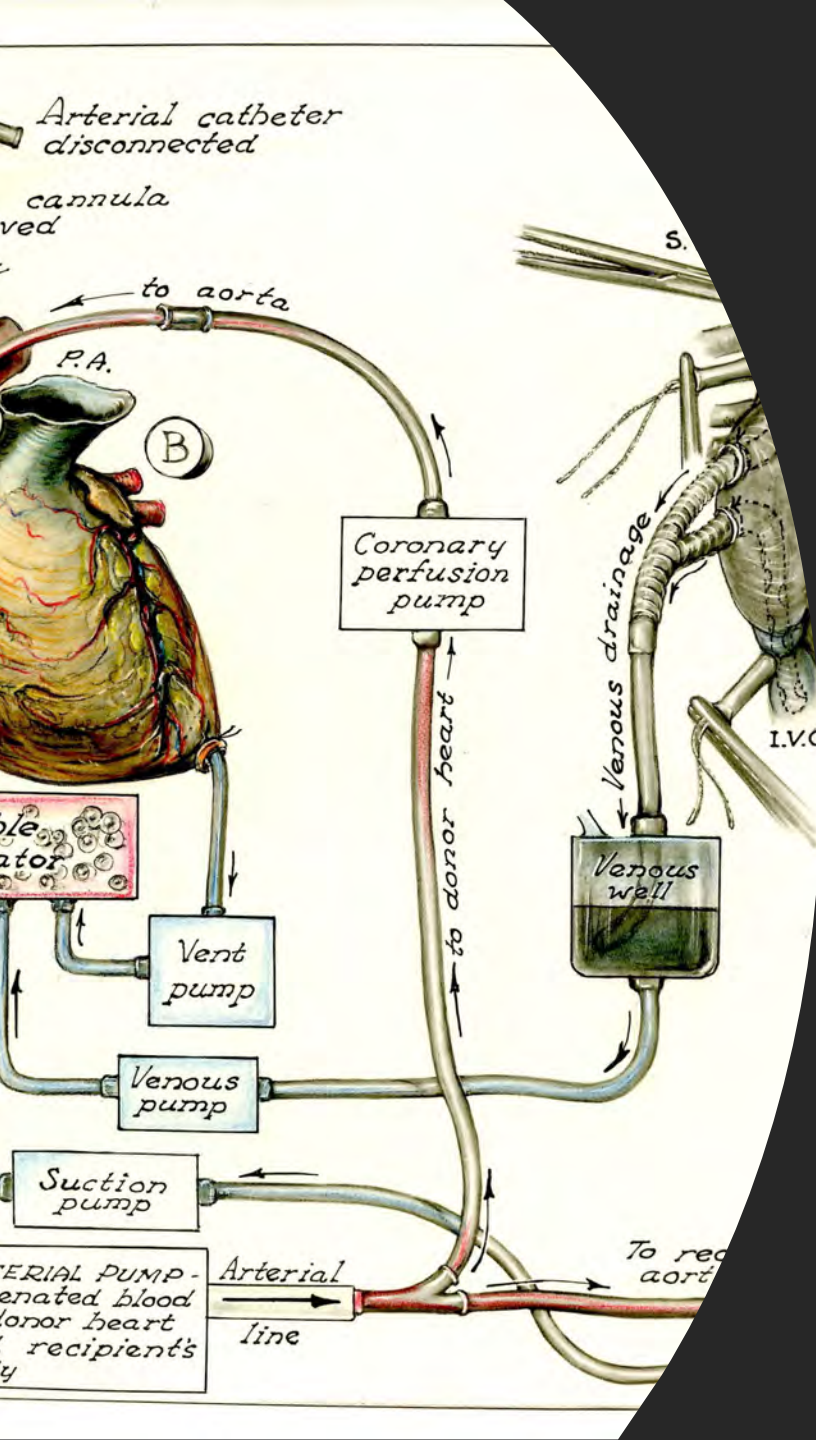
The Illustrative Female: Mary Maciel and Other Women in 20th Century Medical Illustration

Though the number of female medical and health professionals rose gradually throughout the early twentieth century, one area of the medical field in which women not only worked, but thrived, was that of medical illustration. Of the 60 charter members of the Association of Medical Illustrators in 1946, forty were women. Though many of these women were trained by the famous Max Brodel at Johns Hopkins, these female artists very soon began to exercise leadership in the field for many years to come. In Cincinnati, this national pattern was personified in Mary Maciel. Like many of her female contemporaries, she was trained by Brodel at Johns Hopkins. It was Maciel however who began the medical illustration department here at the University of Cincinnati College of Medicine and served as its chair for over twenty years. This presentation will share insights primarily into the life and work of Mary Maciel, while at the same time look at the work of several other women whose skill at depicting human anatomy made them invaluable to the medical profession they served.

Gino Pasi

Archivist/Curator

Donald C. Harrison Health Sciences Library
University of Cincinnati, College Of Medicine



The Illustrative Female: Mary Maciel and Other Women in 20th Century Medical Illustration

medical illustration

- Old as civilization itself
- Illustration as Instruction
 - *Ancient Greece, 400 BCE*

Greek Vase Painting, Achilles Bandaging Patroklos,
Staatliche Museen zu Berlin



Niketas Codex

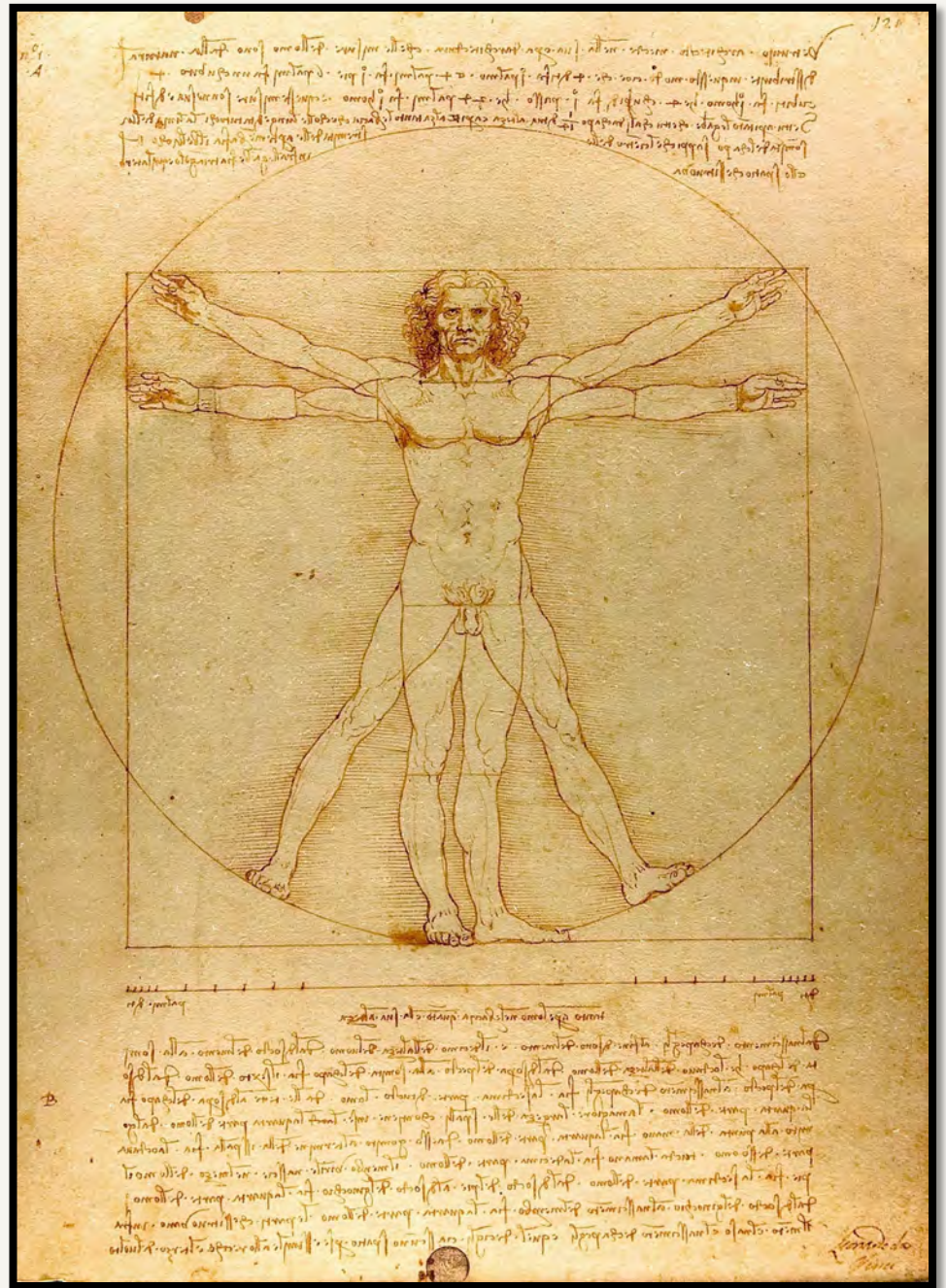
- 900s CE, Constantinople
- Hippocrates, Galen, etc.
- Surgery and Orthopedics
- Earliest surviving source of Ancient Greek writers/illustrators.

Codex Niketas, Biblioteca Medicea
Laurenziana, Florence, Italy



renaissance

- Takes off
- Refocus on the human/human body
- Gutenberg Press - 1450s



Vitruvian Man, Leonardo da Vinci, Gallerie dell'Accademia, Venice, 1492

David, Michelangelo,
Galleria dell'Accademia,
Florence, 1504





SECUNDA SEPTIMI LIBRI FIGVRA.



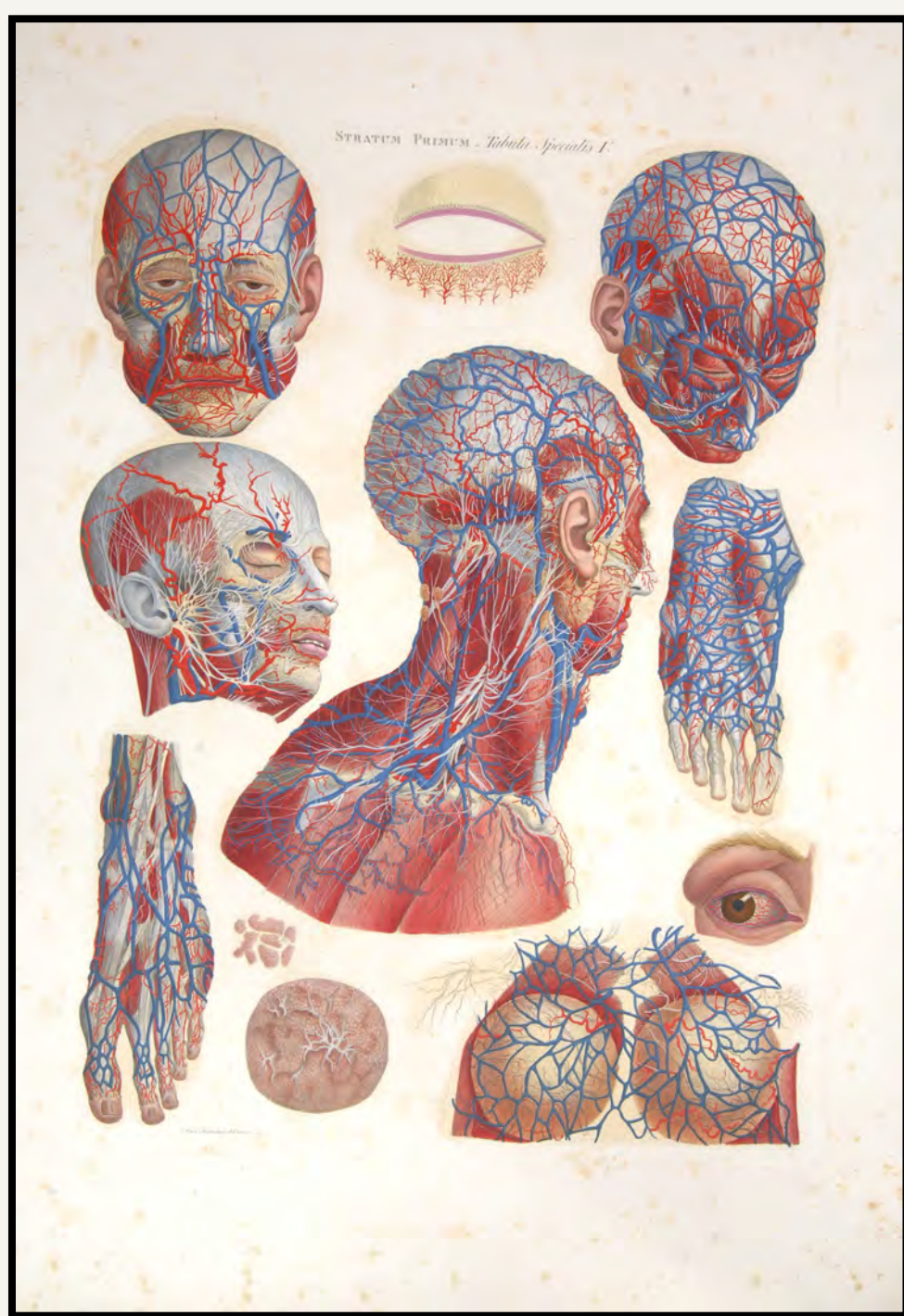
SECUNDÆ FIGVRAE, EIVSDEMQUE CHARA-
cterum Index.

PRÆSENS figura sectionis serie primam subsequens, tertium duræ membrane finem (quem prima figura C aliquot insignitum gerit) longa sectione secundum capituli longitudinem ducta ad apertum demonstrat. Insuper ad huius tertij finis latera, per capituli quoque longitudinem duas deduxi sectiones, utrinque nimirum ad finem singulas, quæ duram membranam duntaxat penetrarunt, & duræ membrane latera ab ea membrane separarunt parte, quæ dextram cerebri partem à sinistra dirimit, atque in subsequenti figura a tribus D insignitur. Præter tres iam commemoratas sectiones utrinque aliâ quoque molitus sum, quæ ab aure ad verticem pertingens, folam

Technological improvements
contribute increasingly to
better more refined illustration

- Printing
- Writing/Drawing
Implements, etc.

Paolo Mascagni,
*Anatomia Universae
Iconae*, 1824
(posthumous)



process



- Doctors, anatomists, pathologists, etc. would work with an artist.
- Not exclusively medical illustrators
- May give them loose sketches
- Observe an anatomy/surgery
- Contracted separately
- Often not given credit.

Andreas Vesalius - *I've paid them; they don't need credit.*

professionalization

- **Max Brödel** (1870-1941)
- Leipzig, Germany
- Notoriety as medical illustrator
- 1894–Invited to Johns Hopkins by pathologist Frederick Mall
- 1911–creates Department of Arts as Applied to Medicine, JHU



- “Republican Mothers”
- Important
- Private tutors
- Public School

*women &
grammar &
secondary
school*



*post-
secondary
education*

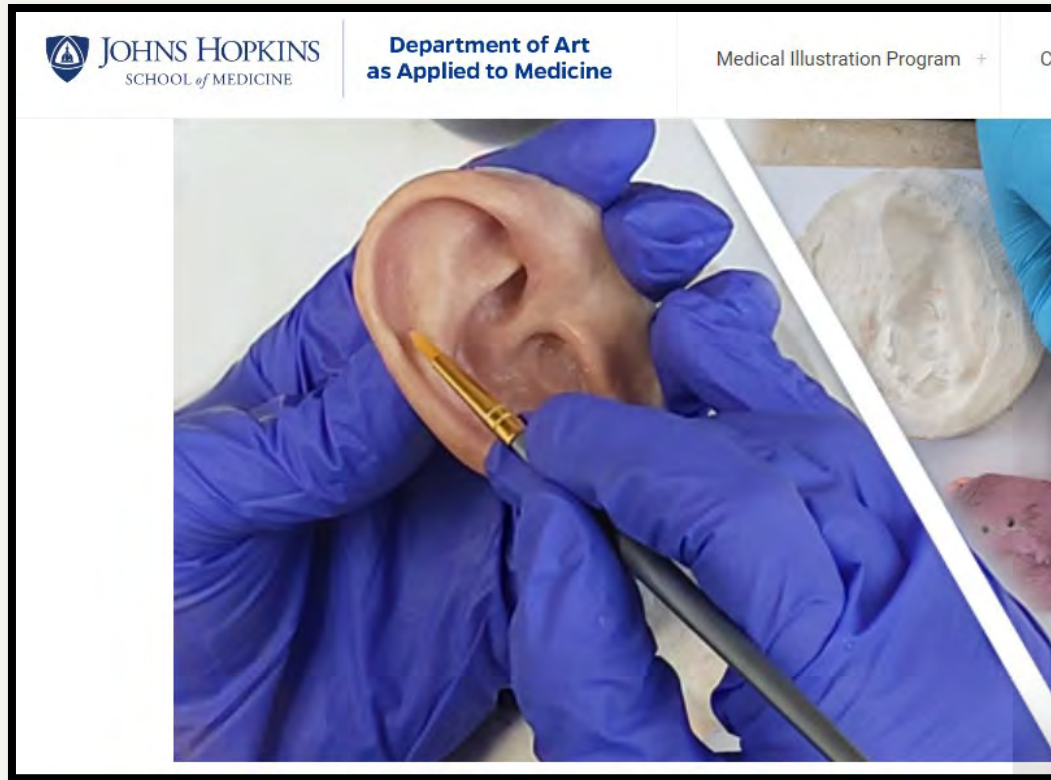
- **July 16, 1840** —Catherine Brewer becomes the first woman to earn a bachelor's degree, graduating from Wesleyan College in Macon, Ga.
- **1849** —Elizabeth Blackwell becomes the first woman to graduate from medical school when she finishes at the top of her class at Geneva Medical School in Geneva, N.Y
- **1877** —Helen Magill becomes the first woman to earn a Ph.D. when she finishes her graduate studies in Greek at Boston University.

1920

- Trained **Nurses**
- **Teachers**
- Social workers
- Musicians/Teachers or Music
- **Artists**/Teachers of Art

*professions
for women*

Hopkins and Brödel



- Johns Hopkins is first coeducational medical school in the country
- Train a number of women medical illustrators
- These illustrators then go out to other universities



***Muriel
McClathry***



- Brödel Student, Hopkins Graduate
- Early 1930s forms Department of Medical Art at Massachusetts General/Harvard.

Dorcas Hager Padgett



- Trains under Brödel
- Works for neurosurgeon Walter Dandy
- Becomes famous scientific researcher at the Department of Embryology at the Carnegie Institution of Washington & University of Maryland School of Medicine.

Artery caught in fingers

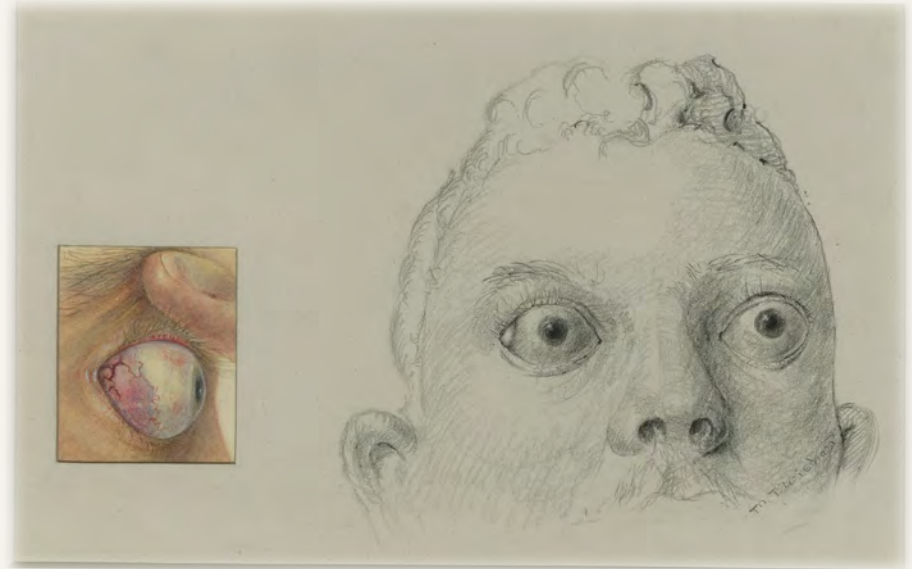
Silver clip

Branch of middle cerebral artery



- Studies under Brödel
- Graduates JHU 1925
- Establishes and directs the Medical Art Service Department at the University of Toronto.

Marie Wishart (1893-1982)





- Graduates Johns Hopkins University. 1925
- Forms and leads first medical illustration department at Vanderbilt Medical Center.

Susan Wilkes

Association of Medical Illustrators

July 6, 1945

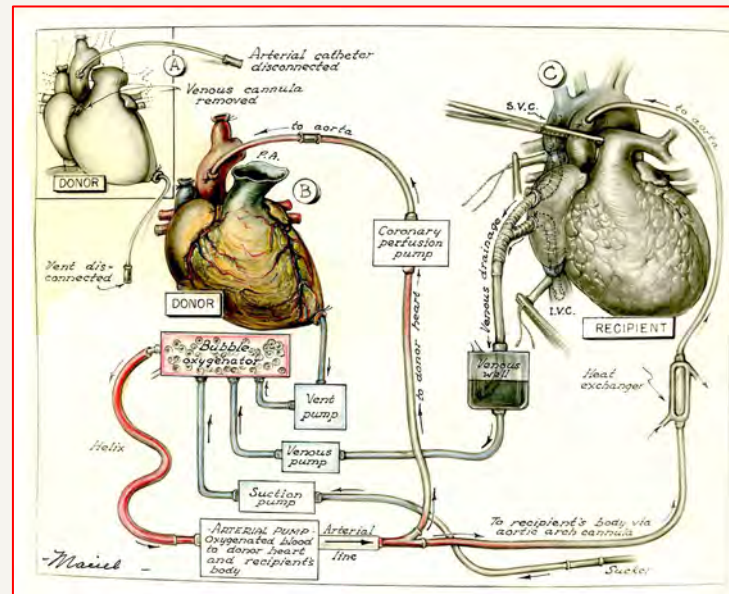
- 29 charter members
 - 18 female
- 60 at first annual meeting
 - 38 women



Mary Maciel (1906-1990)



- Graduated from JH with MA and invited to UC to teach medical illustration.
- 1947/48--creates and lead the UC COM's first School of Medical Illustration.





MUSHROOM CATHETER INSERTED AT 3 WEEKS

Maciel

- New Bedford MA
- Orphaned as a young child
- Sickly child - began drawing in orphanage infirmary
- Resume sketchy with education
- Worked in Lab after high school
- Encouraged to become medical illustrator.



MUSHROOM CATHETER INSERTED AT 3 WEEKS

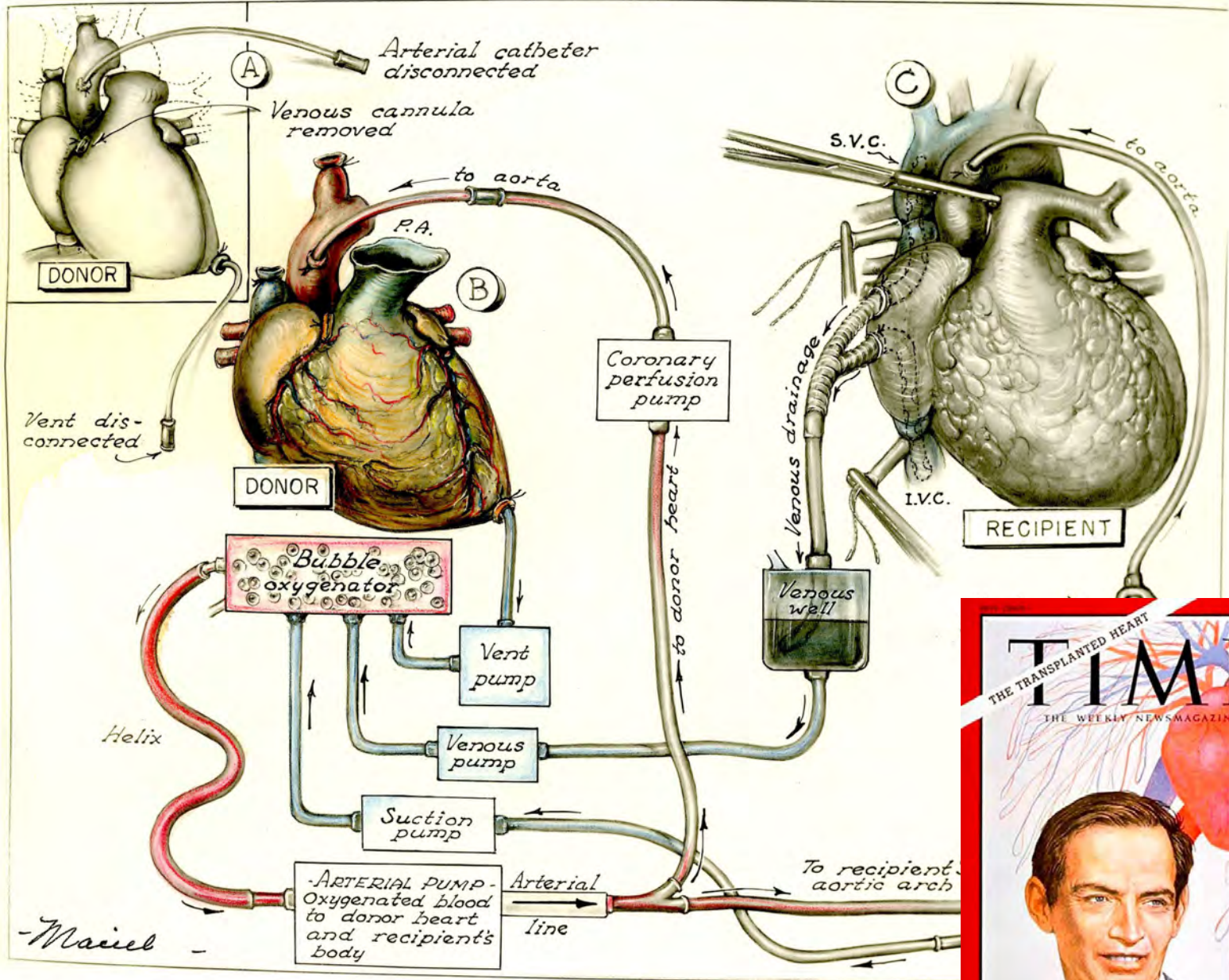
Maciel

- Swain School of Art (UMASS Dartmouth), the Martinette School of Art (Baltimore) the Art Students League (NYC)
- 1930—Graduates from JHU with MA
- 1932-33 - In Cincinnati Teaching a UC
- 1948 - Creates and leads UC COM School of Medical Illustration

MUSHROOM CATHETER INSERTED AT 3 WEEKS

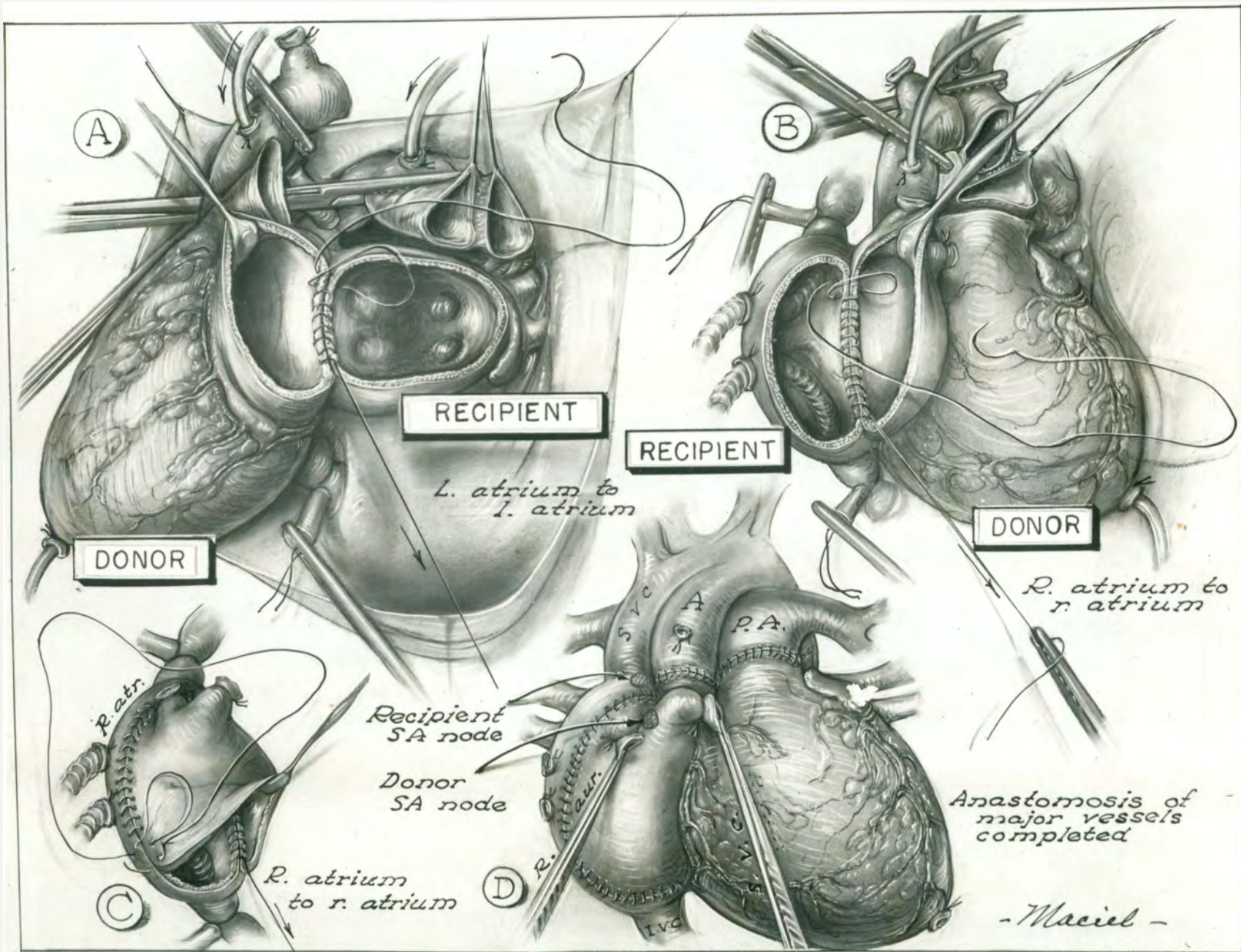
Maciel

- 1948 - Organized UC's clinical photography Laboratory
- 1949 - organized prosthetics laboratory as part of the illustration department
- 1950 - begins travelling the world, visiting professor, consultant, a Fulbright Professorship
 - Strassbourg France
 - Lebanon,
 - Suriname,
 - Lima,
 - Peru,
 - Brazil,
 - India,
 - Thailand,
 - Yugoslavia
 - Iceland,
 - Panama
 - Cape Town, South Africa (1968)

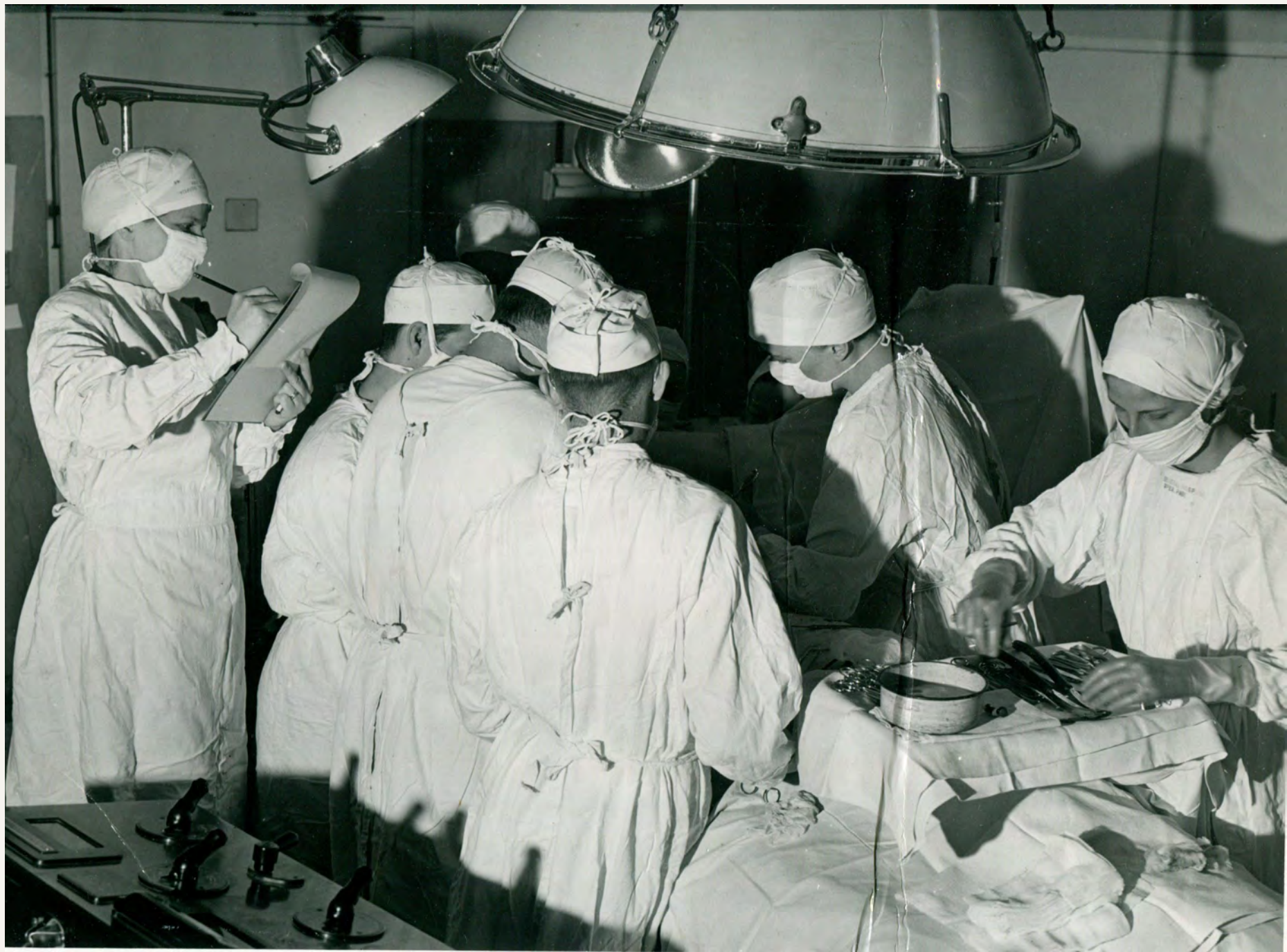


"I want Cincinnati quality." C. Barnard











Unique UC School Closes When Founder Retires

By CAROLE VALENTINE
Women's Club Editor

When Dr. Christian Barnard visited Cincinnati in 1968 he admired the precisely accurate and delicately executed drawings of the University of Cincinnati's renowned medical illustrator, Mary Maciel, and chose her to illustrate the heart transplant techniques he developed.

The recent retirement of Miss Maciel has made one fact perfectly clear: she is irreplaceable.

Because of this, the University of Cincinnati College of Medicine's School of Medical Illustration has closed. There is no one to carry on this vital educational program she began in 1947.

Graduates of the school are scattered all over the world, settled into jobs where their unique abilities are needed to depict anatomical structures in such minute detail that a physician can treat a patient or teach a class.

A professional photographer as well as artist, Miss Maciel admits that photography has a place in medical illustration, but "there is much the camera cannot do, especially during surgery, when exact interpretation by drawing eliminates the clamps and other surgical instruments that are present in the operative field," she said.

"By the use of different colored pencils, a medical illustrator is able to make more exact definition of the position and function of physical parts," she said.

"EACH TINY LIGAMENT must be included and defined," she explained. "God put them there for a reason and a good medical illustrator knows he must not omit even one."

"This work calls for a person to have an even temperament and a sense of humor," she said. "A medical illustrator is basically a scientist using his ability in a scientific way."

"He must be ready to drop what he is doing when a surgeon calls. The job needs dedication and long, long hours to meet the doctor's deadline, particularly when a patient's treatment might hang on the results."

Often, she said, mid-way through an operation, the medical illustrator is called to the operating room. The surgeon has found an unusual condition that he wants recorded by drawing.

In sterile gown, with sketch pad and colored pencils, the illustrator stands on a platform peering into the incision over the surgeon's shoulder. "Because he is experienced, he can identify what is wrong and quickly makes rough sketches, usually too many.

"The pictures are in his mind. The sketches are just pictorial notes," she called them.

Back at the drawing board, the medical illustrator begins to elaborate on all drawings, making them clear, detailed and labeling each anatomical part. When the doctor comes to look, he may pick out just one drawing that puts the story across that he wanted recorded.

Sometimes, Miss Maciel said, he will look and say, "I would like to have this drawn from another angle." A good medical illustrator can do this, she added.

When Dr. Christian Barnard performed his famous heart transplant on Dr. Phillip Blaisberg in Capetown, South Africa, he wanted the procedure recorded by a medical illustra-

tor. "Medical illustrations are useful in teaching anatomy. Professor Maciel's printed illustrations appear in textbooks, in hundreds of articles and chapters in American and foreign texts and scientific journals.

She is creator of nearly 8000 original scientific illustrations and teaching models that come apart. She has made scores of animated movies and TV films for the UC medical staff's use. She has authored 39 articles in three languages and has presented 32 one-man shows throughout the world.

"Retiring?" she said. "Hardly. True, the school closed in 1972, but I am just eliminating the nine-to-five jobs that pull me out of bed early in the morning."

She still keeps active in four lines of work. She is a free-lance illustrator for Dr. Barnard and is just completing a drawing of the intrinsic nerve supply to the heart for him.

She continues to design medical and surgical instruments. What she regards as "gratifying work" is her ability to create prosthetics (ears, noses, eyes and the like) for rehabilitation for the severely burned or maimed.

Long affiliated with Project Hope as member of the board of directors and as having served on the ship SS Hope in Brazil, Miss Maciel is permanently connected as a visual aid consultant.

She also serves as consultant to the Indian Hospital in Arizona and is consultant in visual aids in the Division of Research and Education

enquirer
WOMEN

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Monday, December 10, 1973



1973: End of an Era