Anatomic and Clinical Pathology Residency Program

The four-year Anatomic and Clinical Pathology Residency Program at Mayo Clinic Rochester offers:

- Comprehensive education that prepares you for a career in clinical practice or academic medicine
- Unusually rich opportunities for pathology experience
- An additional year of training that leads to eligibility for combined anatomic and clinical pathology certification

Mayo’s favorable faculty ratio, large patient population and state-of-the-art diagnostic, therapeutic and research facilities combine to create a truly integrated educational experience. The “Mayo way” of graduate medical education ensures you will have the finest instruction during a busy, hands-on residency.

Training at Mayo

Mayo has a long-standing tradition of practicing both the art and science of medicine. As one of the country’s largest and best-known private group practices of academic medicine, Mayo was founded on the belief that physicians need to work together, teach and learn from others, and conduct research to provide sustained, excellent patient care.

Physicians, scientists, residents, students, nurses and allied health staff members work as a team at Mayo. Our staff clinicians and scientists are called consultants in recognition of their teaching and mentoring role in the team.
Program Description

Mayo’s four-year Anatomic and Clinical Pathology (AP/CP) Residency Program offers combined training in anatomic pathology and clinical pathology. The program currently has 16 residents and 18 fellows (PGY-5 level or higher). Although most of our residents participate in the combined AP/CP program, we also consider applicants who are interested only in three years of training in anatomic pathology or clinical pathology.
Clinical Training

As a Mayo pathology resident, you will gain experience in all aspects of anatomic and clinical pathology, including surgical pathology, post-mortem examinations, clinicopathologic correlations, and the organization and communication of pathologic information.

Typical Rotation Schedule

A typical residency rotation schedule includes:

Year 1
- Surgical Pathology ......................... 6 months
- Autopsy Pathology ......................... 6 months

Year 2
- Surgical Pathology ......................... 6 months
- Hematopathology ......................... 3 months
- Transfusion Medicine ..................... 3 months

Year 3
- Transfusion Medicine ..................... 1 month
- Cytogenetics ................................. 1 month
- Immunology ................................. 1 month
- Chemistry and Microbiology ............ 3 months
- Cytology ..................................... 2 months
- Dermatopathology ......................... 1 month
- Gastrointestinal Pathology ............... 1 month
- Coagulation .................................. 1 month
- Molecular Genetic Pathology ............ 1 month

Year 4
- Autopsy and Neuropathology ............ 3 months
- Clinical Pathology Inquiry Center ........ 2 months
- General Pathology -Mayo Clinic
  - Jacksonville or Mayo Clinic
    - Scottsdale ................................. 3 months
- Surgical Pathology ......................... 2 months
- Lymph Node Pathology .................... 1 month
- Elective ..................................... 1 month
The amount of time spent in some of these rotations can be adjusted, depending on your specific professional interests. You may spend your elective time gaining more clinical experience or working on a research project.

During your third or fourth year of training, you are encouraged to complete a three-month rotation at either Mayo Clinic Jacksonville or Mayo Clinic Scottsdale. This will expose you to the practice of general pathology in a community hospital. Mayo funds the authorized additional costs of your travel, housing, car rental and licensure fees for this rotation.

**Didactic Training**

During your residency you will have the opportunity to attend a wide variety of seminars, conferences and lectures presented by Mayo staff consultants and visiting physicians. You will prepare and present a number of conferences for attending consultants and other residents. You also will teach Mayo Medical School students and visiting student clerks who are assigned to pathology rotations.

**Research Training**

Mayo offers an exceptional variety of research opportunities in pathology and laboratory medicine. You can focus on either applied or clinical research during your residency. You also may add a one-year research fellowship to satisfy the requirements for American Board of Pathology certification. (See page 7). In addition, the Clinician Investigator Program allows residents to pursue two years of additional research training during their residency program.
**General Program Information**

**Patient and Service Mix**

As a regional medical center for the Midwest, Mayo Clinic Rochester registers more than 320,000 patients each year. Eighty percent of the clinic’s patients are self-referred and come from within a day’s drive. Although Mayo has a reputation for successfully handling the most obscure and difficult medical problems for people from around the world, common medical concerns are actually the norm.
Mayo’s Department of Laboratory Medicine and Pathology includes more than 60 physicians and scientists, and nearly 1,100 technologists and technicians. These staff members work closely with our residents and are a key to the strength of our training program. The department processes 75,000 surgical pathology specimens and 180,000 cytologic preparations annually. In addition, the staff performs 30,000 surgical pathology consultations, 550 autopsies and more than eight million laboratory examinations each year.

This diverse patient base and large number of procedures offers you the opportunity to see an exceptional range of pathology during your clinical training.

**Call Frequency**

Your call schedule will vary by individual rotation. Mayo follows the recommendations of the Accreditation Council for Graduate Medical Education (ACGME).

**Certification**

The American Board of Pathology requires candidates to have five years of postgraduate training to qualify for combined anatomic and clinical pathology certification. Four years of training are required for certification in either anatomic or clinical pathology.
You may add a year of clinical experience (prior to pathology training), basic research or pathology fellowship training to your residency to complete this requirement. A fifth year of pathology training can include a subspecialty fellowship in:

- Hematopathology
- Microbiology
- Molecular Genetic Pathology
- Surgical Pathology
- Transfusion Medicine

**Moonlighting**

Moonlighting in pathology is permitted for licensed residents beyond the PGY-3 level.

**Evaluation**

To ensure that you acquire adequate knowledge and develop your technical skills, your performance will be monitored carefully during your residency. You will be evaluated formally by your supervising faculty member after each rotation. In addition, you will regularly evaluate the faculty to ensure that your educational needs are being met.
Faculty

In addition to caring for patients in their clinical practices, Mayo’s faculty members are committed to teaching and facilitating the growth of medical knowledge. Many of our faculty have published and lectured extensively and are well-regarded in their field. You will have direct access to these individuals throughout your training program.

Advisers

Mayo’s faculty advisers provide comprehensive educational advice and personal support. Your adviser also will serve as a contact point, introducing you and your family to Rochester and the Mayo system.

Facilities and Resources

Facilities

The Mayo campus in Rochester includes two hospitals with nearly 1,300 beds and a designated Level One Trauma Center. The campus also includes a comprehensive outpatient medical complex, a variety of research facilities, and several full-service laboratories and on-site pharmacies. More than 800 staff physicians represent virtually all clinical specialties.
Libraries

Mayo’s library system in Rochester has one of the largest medical collections in the world — more than 4,300 journal subscriptions, nearly 353,000 bound volumes, and several medical databases and search engines. The main library provides study space, computers, microfilm readers and reader-printers, translations, duplicating machines, and book ordering and audiovisual services.

Reference librarians can arrange interlibrary loans, perform literature searches, and teach you how to use the computer database services that link Mayo to a global network of scientific information. More than 625 clinical conferences are preserved on videotape each year. You can view these tapes at the library or check them out for use at home.

Branch libraries include a health-related sciences library, two hospital libraries and the Learning Resource Center (LRC). The LRC, devoted mainly to the Mayo Medical School curriculum, offers special collections emphasizing women’s issues in medicine and health, medical education, and ethics.

Computer Services

Macintosh and IBM personal computers and software are available for you to use. In addition, Mayo’s Microcomputer Education Center provides training in the use of computers for word processing, data collection and data analysis.
Telecommunications System

Mayo’s clinics in Rochester, Scottsdale and Jacksonville are linked via a sophisticated telecommunications system, which provides video teleconferencing and data transmission. Staff in Rochester, Scottsdale and Jacksonville can have live, interactive consultations with physicians and their patients at the other sites via TV monitors. In addition, X-rays, laboratory test results, CT scans, ECG tests, angiograms and pathology slides can be transmitted between sites.

An advanced telecommunications system also is the foundation for Mayo’s unique five-digit telephone dialing and pager system. Physicians can be easily accessed for consultations or updates, strengthening the teamwork among consultants, fellows, residents and allied healthcare staff at all three practice sites.
Compensation and Benefits

Vacation and Trip Policy

You may take up to 15 working days (three weeks) each year for vacation.

You are encouraged to present your research at regional and national meetings. Residents are allowed up to 10 days per academic year for trips for presentation. If you are selected to make a presentation, Mayo will pay the authorized expenses for you to attend that meeting (within the United States).

Stipends and Other Benefits

Mayo has highly competitive stipends and a benefits package that includes:
• A comprehensive medical care plan
• Short-term disability insurance
• Voluntary basic life insurance, disability insurance, and family life insurance
• Voluntary additional life insurance
• Voluntary accidental death and dismemberment insurance
• A dental assistance plan
• Excess personal liability insurance
• Professional liability coverage

Additional information about stipends and benefits will be provided during personal interviews.
The Rochester Community

Home of the original Mayo Clinic and the largest IBM manufacturing plant under one roof, Rochester, Minnesota, welcomes thousands of visitors from around the world each year. Rochester, with a population of over 78,000, has the amiable qualities of many small Midwestern towns while offering amenities associated with larger cities.

If you’re interested in the fine arts, you’ll find an active network of enthusiasts who support a symphony orchestra and chorale, four theaters, a community art center, and several choruses and bands.

Rochester has much to offer in sports and physical fitness also. Within the city limits are six golf courses; tennis and health clubs; an extensive network of walking, biking and in-line skating trails; nearly 2,000 acres of city parks; and a community recreation center. Several state parks are nearby, and it’s a very short drive to fishing, hunting, hiking, camping, boating, skiing or skating.

The Twin Cities of Minneapolis and St. Paul are only 80 miles north of Rochester. Among many attractions are the nationally famous Guthrie Theatre, the Minnesota Orchestra, the St. Paul Chamber Orchestra and the Walker Art Center. Both professional and collegiate baseball, football and basketball teams are based there. The Twin Cities also have world-class shopping and restaurants, including the Mall of America.

Good, moderately priced housing is relatively easy to find in Rochester. The public school system is one of the best in the state. Close proximity between Mayo Medical Center and home facilitates time with family and makes call from home quite manageable.
Applications and Appointments

Mayo offers four residency positions in the Anatomic and Clinical Pathology Residency Program each year. Appointments are made through the National Resident Matching Program (NRMP), although we also consider applicants who are eligible for admission outside the NRMP. You do not have to complete a transitional clinical year before applying.

To apply for the AP/CP program, you need to submit:
• A completed Mayo Graduate School of Medicine application form
• Official college, graduate school and medical school transcripts
• An official record of board scores (NBME, FLEX, USMLE, LMCC, VQE or FMGEMS)
• A dean’s letter and two other letters of recommendation
• A curriculum vitae
• A personal statement
• A valid ECFMG certificate (if you graduated from medical school outside of the United States or Canada)

There are approximately 18 subspecialty fellowship positions available each year. To apply for a fellowship, you must submit a letter of recommendation from your pathology residency program director in addition to the materials listed above. Mayo residents are given special consideration for these positions.
Applications for each academic year, which begins in July, should be submitted by November 15 of the previous calendar year. If you are considered for an appointment, you will be asked to visit Mayo Clinic Rochester for an interview with the program director and selected faculty. Interviews are conducted on designated Mondays and Fridays from November 15 through January 10.

Inquiries

If you would like an application form or more information about our pathology training program, please contact:

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