

Program Goals and Objectives: Program Statement

1. DESCRIPTION OF THE PROGRAM'S EDUCATIONAL GOALS AND PHILOSOPHY:

Training Goals

GRADUATE MEDICAL EDUCATION IN PATHOLOGY: The Residency Program in Pathology, Immunology and Laboratory Medicine at the University of Florida is designed to DEVELOP ANATOMIC AND CLINICAL PATHOLOGISTS OF THE HIGHEST CALIBER WHO ARE COMPETENT AND PREPARED FOR CLINICAL AND ACADEMIC PRACTICE IN THE 21st CENTURY. Through an organized educational experience, pathology residents will acquire a broad understanding of anatomic and clinical pathology, the methods and techniques of those disciplines, and the consultative role of the pathologist in patient-care decision making. The purpose of graduate medical education (GME) in pathology is to provide an organized educational program with guidance and supervision of the resident, facilitating the residents' professional and personal development while ensuring safe and appropriate care for patients in an ethical and professional environment.

Philosophy

Pathology occupies a central role in the biotechnology revolution incorporating elements of traditional microscopic and laboratory diagnosis, molecular biology, flow cytometry, image analysis, immunohistochemistry, protein biochemistry, monoclonal antibodies, and cytogenetics among other state-of-the-art technologies. While the contemporary disciplines are taught, we recognize that pathologists of the future will continually renew their knowledge base through a process of continuing organized and self-educational experiences. This process begins during residency training and must continue throughout the pathologist's career. Therefore, the pathologist of the future must be a *physician scientist* capable of assimilating new information and translating that knowledge into improved clinical skills and research acumen. In both Anatomic and Clinical Pathology, residents are expected to study histologic slides, gross specimens, autopsy specimens, and/or laboratory data for interpretation, analysis, and diagnosis as much as possible prior to "sign-out" after their initial rotation(s) of observation and instruction. At "sign-out", these data are reviewed with the attending pathologist for final diagnosis or further workup as required. The advanced resident experiences graduated responsibility by reviewing the histologic slides independently of the attending faculty member and coming to his or her own diagnosis. This diagnosis can be accepted by the attending faculty or the diagnosis can be modified as in all circumstances critical slides are reviewed by the attending faculty member. In this way, pathology is taught at the surgical bench, in the autopsy suite, at the microscope and in the clinical laboratory as an interactive, interpersonal tutorial providing a vigorous and rigorous educational experience. The process is active and not passive as the residents are integral members of the Department of Pathology. We recognize that in every sector, the Pathologist must act as a consultant, be knowledgeable about laboratory administration, data management/informatics, technology development and implementation, and continuous quality improvement. Likewise, proper utilization of resources is an important concept that the resident physician must acquire. Distribution of resources requires an appropriate background in cost management, cost accounting and social and medical ethics.

Program Description

The University of Florida residency program provides instruction in all facets of Pathology. The majority of residents choose to pursue training in both Anatomic and Clinical Pathology that will permit them to take both the Anatomic Pathology and Clinical Pathology boards given by the American Board of Pathology (AP/CP-4 residency program). As residents advance, they are expected to take more responsibility for clinical services (***Graduated Responsibility***). This is achieved by placing residents in supervisory roles over more junior residents, and by giving them responsibility for review of primary laboratory data, laboratory decisions regarding the workup of abnormal test results, preliminary evaluations of frozen sections and surgical pathology specimens, and on-call decisions regarding various aspects of pathology.

The Curriculum

The curriculum is organized into a **basic 4 year training period** that will prepare the resident for the practice of Pathology. The Pathology Department and Residency Training Program serve both Shands Hospital and the Malcom Randall Veterans Administration Medical Center (MRVAMC) located across the street from the University of Florida Health Science Center. Li Lu, M.D., Ph.D. is the overall director of pathology rotations at the MRVAMC. She is also the director of the cytopathology MRVAMC rotation. Rotations in Forensic Pathology may be taken at District 8 Medical Examiners Office in Gainesville which is supervised by Martha Burt, MD. Residents are supervised directly by the faculty with the assistance of senior residents and fellows. During the **first and second years** the resident is

introduced to Clinical Pathology through laboratory experiences complemented by didactic lecture series. The **third and fourth years** of training permit the resident to assume increasing degrees of responsibility for Clinical and Surgical Pathology services. A total of 30 months of training in Anatomic Pathology (32 four week rotations) and 18 months in Clinical Pathology (20 four week rotations) are required in the basic 48 month training period (52 four week rotations). During their four years of training, each resident will perform a minimum of **50** autopsies, will sign out more than **2000** surgical pathology specimens, examine more than **1500** cytology specimens, and will perform more than **200** operating room consultations (frozen sections), all under the supervision of the faculty.

A prototypic schedule

A total of 30 months (32 four week blocks) of anatomic pathology and 18 months (20 four week blocks) of clinical pathology are required over the four year AP/CP training program. These are completed in thirteen, 4 week blocks each per year (52, four week blocks total). Approximately one third of the residents' AP training is achieved at the Malcom Randall Veterans Administration Medical Center (MRVAMC) that is directly across the street from Shands Hospital and the Health Science Center. The MRVAMC is staffed by University of Florida faculty to insure the same high level of expertise at the MRVAMC as the University of Florida Health Science Center. Typically, first year residents will rotate on the autopsy service 3 months, second years 1 month, and upper level residents to varying degree

The next page shows an example of resident schedule, PGY-1 through the PGY-4 schedule.

PROTOTYPIC SCHEDULE													
Rotation #	1	2	3	4	5	6	7	8	9	10	11	12	13
Pathology Year 1	Anatomic Pathology								Clinical Pathology				
	Autopsy			VA Surg path	VA Surgpath	VA Surgpath	GI	GU/Breast ENT	GYN	Chemistry Core	Micro-biology Core	Hemat-ology	General lab
Rotation #	1	2	3	4	5	6	7	8	9	10	11	12	13
Pathology Year 2	Anatomic Pathology								Clinical Pathology				
	Autopsy	VA Surgpath	VA Surgpath	GYN	GU / Breast ENT	Dermato-pathology	Cytology	VA Pulmonary	VA LAB management	Hemato-pathology	Elective	Blood Bank	General lab
Rotation #	1	2	3	4	5	6	7	8	9	10	11	12	13
Pathology Year 3	Anatomic Pathology								Clinical Pathology				
	Autopsy	VA Surgpath	GI	Ortho	Neuro-pathology	VA Renal & EM	VA Cytology	Immunology	Immunology	Hemato-pathology	Cyto-genetics	Hemat-ology	Micro
Rotation #	1	2	3	4	5	6	7	8	9	10	11	12	13
Pathology Year 4	Anatomic Pathology								Clinical Pathology				
	Forensics	VA Surgpath	GI	GYN	GU / Breast ENT	Cytology	Elective	Elective	Forensic Toxicology (elective)	Hemato-pathology	Molecular pathology	Blood Bank	General lab

Teaching Sets and Materials

There are microscopic slide teaching sets in urologic neoplasms, breast tumor, soft tissue tumor, pulmonary pathology, endocrine pathology, neuropathology, cardiac pathology, forensic pathology, GI pathology, bone pathology, liver pathology, parasites, and ovarian tumors. Slides can be checked out from the Autopsy suite. One teaching set may be checked out for up to 2 weeks. These teaching sets are expensive and if misplaced must be paid for/replaced by the party who checked the set out.

There are a large number of ASCP and USCAP conference course and workshop titles for which slides, Kodachromes, and handouts are available in the Autopsy suite. These can be checked out on an "as needed" basis for up to two weeks at a time.

Several of the sign-out areas on the 3rd floor also have teaching sets available for use. The rotation directors of the various specialties can help you locate these.

Subscriptions to *Modern Pathology*, *American Journal of Surgical Pathology*, *Human Pathology* and *Seminars in Diagnostic Pathology* are available in the Health Science Center Library. A variety of journals are available online through the HSC library.

*Note: Residents may make copies of the material they need; however, the books of original material **must not** be removed from the Teaching Office for periods greater than 2 weeks.*