

## **Internal Medicine Curriculum Pathology**

**Contact: Dr. Elliott Metcalfe**

### **General Information**

The Pathology rotation will provide the house staff officer with a broad overview of clinical pathology, laboratory diagnosis and blood banking procedures. When interested, the resident may be assigned to gross pathology. Otherwise, the resident is encouraged to review general organ pathology in areas of specific interest with the assistance of a staff pathologist.

### **Goals and Objectives**

The goal of this rotation is to integrate the role of clinical medicine and clinical pathology in total patient care.

### **Value to the Resident**

This rotation should allow the resident to understand the pathologist's contribution to disease diagnosis. A better understanding of the interpretation of clinical pathological laboratory studies would result. The utility of various clinical diagnostic testing procedures continues to evolve and provides the resident with new methods for diagnosis.

### **Principal Teaching Methods**

Directly working with the pathologist daily on assigned topics, the resident will be exposed to the broad array of testing and diagnostic facilities provided by the pathologist.

### **Educational Content**

The resident will be exposed to clinical as well as surgical pathology experiencing frozen section and autopsy preparation, the basics of pap smear interpretation and reporting, bone marrow reviews, aspiration cytology, biopsy interpretation, pathologic slide interpretation, toxicology screens, tumor marker interpretation, microbiology lab overview, and blood banking techniques. Although it may not be possible for the resident to complete all of these tasks in a single month, at the beginning of the rotation the resident will work with the pathologist to decide in which areas to participate.

### **Components of the Physical Exam Stressed**

None, though integration with the clinical patient data will be stressed.

### **Procedures**

Include those typically performed in a pathology department such as bone marrow collection, frozen section processing, and cytologic preparation.

### **Reading**

1. Assigned readings by faculty
2. Blood transfusion reactions from UpToDate
3. Interpretation of the normal and abnormal Papanicolaou smear from UpToDate

#### 4. Evaluation of paraproteinemias from UpToDate

##### **Required Presentations**

The resident will assist in the weekly Friday Noon Tumor Board Conference. Resident will be required to present a case for the CPC Conference at Mid Day Conference.

##### **Call Responsibility**

The resident will be expected to attend all autopsies

##### **ACGME Definition of Meaningful Patient Responsibility**

Pathology does not qualify.

##### **Bioethical Issues**

Principles of patient confidentiality and ethical issues will be discussed.

##### **Occupational/Environmental Issues**

Disposal of potentially hazardous materials will be discussed as well as recycling of various fixatives and chemicals. Occupational exposures unique to the pathologist will also be reviewed.

##### **Evaluation Method**

The primary method will be direct observation of performance. The attending will evaluate the resident mid month and at the end of the month and will fill out the standard evaluation form with the resident. At the completion of the rotation, the attending will perform a written evaluation. A verbal evaluation will be given by the attending during the rotation. The attending physicians will base the evaluation on fulfillment of rotation requirements and observations. The resident will evaluate the rotation and attending which will be kept confidential and shared with the attending faculty maintaining confidentiality. (Updated September 2004 and September 2006)

### Pathology Rotation

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
<b>9 AM-12 PM</b>							
<b>Noon-1PM</b>							
<b>1 PM- 5PM</b>							

**Evaluation of Six Competencies** (PGY-2 and PGY-3 residents will be evaluated similarly on the following competencies).

1. Patient Care: Procedures, i.e., bone marrow, smears.
2. Medical Knowledge: CPC presentation, tumor board preparation and presentation.
3. Practice-based Learning and Improvement: Literature search on at least two pertinent topics per week.
4. Interpersonal: Communication skills and listening skills.
5. Professionalism: Punctuality, availability, respect and sensitivity to culture, age.
6. System Based Learning: Understanding and knowledge of practice and delivery systems.

#### Objectives

The curriculum is designed to address learning objectives of the following Accreditation Council on Graduate Medical Education core competencies. Reference:

<http://www.acgme.org/Outcome>

*“Every competency can be taught with every patient.” B. Joyce, 2006*

#### PATIENT CARE

Residents must be able to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health. Residents are expected to:

- communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families
- gather essential and accurate information about their patients
- make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment
- develop and carry out patient management plans
- counsel and educate patients and their families
- use information technology to support patient care decisions and patient education
- perform competently all medical and invasive procedures considered essential for the area of practice
- provide health care services aimed at preventing health problems or maintaining health
- work with health care professionals, including those from other disciplines, to provide patient-focused care

## **MEDICAL KNOWLEDGE**

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care. Residents are expected to:

- demonstrate an investigatory and analytic thinking approach to clinical situations
- know and apply the basic and clinically supportive sciences which are appropriate to their discipline

## **PRACTICE-BASED LEARNING AND IMPROVEMENT**

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices. Residents are expected to:

- analyze practice experience and perform practice-based improvement activities using a systematic methodology
- locate, appraise, and assimilate evidence from scientific studies related to their patients' health problems
- obtain and use information about their own population of patients and the larger population from which their patients are drawn
- apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness
- use information technology to manage information, access on-line medical information; and support their own education
- facilitate the learning of students and other health care professionals

## **INTERPERSONAL AND COMMUNICATION SKILLS**

Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their patients families, and professional associates. Residents are expected to:

- create and sustain a therapeutic and ethically sound relationship with patients
  - use effective listening skills and elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills
  - work effectively with others as a member or leader of a health care team or other professional group

## **PROFESSIONALISM**

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population. Residents are expected to:

- demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and society that supercedes self-interest; accountability to patients, society, and the profession; and a commitment to excellence and on-going professional development
- demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices

- demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities

### **SYSTEMS-BASED PRACTICE**

Residents must demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value. Residents are expected to:

- understand how their patient care and other professional practices affect other health care professionals, the health care organization, and the larger society and how these elements of the system affect their own practice
- know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources
- practice cost-effective health care and resource allocation that does not compromise quality of care
- advocate for quality patient care and assist patients in dealing with system complexities
- know how to partner with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance

**Pathology Rotation Resident Check List**

Intern/Resident \_\_\_\_\_

PGY (circle one) 2 3

Supervising Faculty \_\_\_\_\_

<b>Rotation Check List</b>	<b>Yes</b>	<b>No</b>	<b>Comments</b>
Reviewed the goals and objectives at the beginning of the rotation			
Evaluation and feedback mid month			
Evaluation and feedback at the end of rotation			
Attended all scheduled clinical and didactic session			
Completed assigned readings and literature review and discussion with attendings			
Completed required case reports/abstracts/posters			
Reviewed and met the core competencies as outlined above. Please give at least one example.  <i>A Patient Care</i> _____ <i>B. Medical Knowledge</i> _____ <i>C. Practice Based Learning</i> _____ <i>D. Interpersonal and Communication Skills</i> _____ <i>E. Professionalism</i> _____ <i>F. Systems-Based Practice</i>			

**Intern/Resident Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

**Supervising Faculty** \_\_\_\_\_ **Date** \_\_\_\_\_

Revised: 9-2008