

**MRVAMC: PRACTICAL CLINICAL PATHOLOGY: Rotation Director: Li Lu, M.D., Ph.D.,
Clinical Assistant Professor**

1. Description of the rotation: The MRVAMC Practical Clinical Pathology rotation offers the resident an opportunity to learn about the medical and administrative aspects of clinical pathology and laboratory medicine. As appropriate to the individual case or consultation under review, the ethical, socioeconomic, medicolegal, and cost-containment issues are reviewed and discussed. As well, research design, statistics and critical review of the literature are discussed. By use of the literature, Medline, and textbooks, the resident is trained to become a lifelong learner (Competency #2,#3,#6, see note).

2. Goals of the rotation: The resident is expected to gain an appreciation of the administrative functions involved in managing a laboratory, as well as expanding his/her knowledge base in clinical pathology (Competency #2,#3,#6, see note).

3. Duration of the rotation: One to two 4-week rotations per 4 years per resident.

4. Duties and responsibilities of residents: During the first 4 weeks on this rotation, the resident will spend two days in each section of the laboratory, gaining an appreciation of the types of procedures performed and the daily work flow. For the remainder of the rotation(s) (graduated responsibility), the resident will divide his/her time among all sections of the laboratory, observing and performing tests, solving problems, interfacing between clinicians and the laboratory, and attending scheduled administrative activities. Problems and questions will be directed to the resident by laboratory supervisors as the resident makes morning rounds throughout the laboratory. The resident will devise a strategy to address each issue, and will implement the plan after consultation with the appropriate faculty member(s). Over the course of the rotation, the resident should feel free to select a variety of test procedures to perform, and should coordinate his/her participation with the laboratory supervisors. Participation in the following procedures is expected to be a part of the rotation: 1) Performance of bone marrow biopsies and aspirations; 2) Interpretation of electrophoreses; 3) Workup of transfusion reactions; 4) Hematology slide reviews; 5) Evaluation of flow cytometry requests; and 6) Review of interesting microbiology cultures, stains, tests (Competency #1,#2,#3,#4,#5, see note). The resident will be introduced to the administrative aspects of clinical pathology laboratory management by participation in quality assurance functions, committee meetings: Supervisors' Meeting (weekly), Clinical Executive Board (monthly), Directors Staff Meeting (weekly), General Staff Meeting (quarterly), Quality Improvement Committee (monthly), Transfusion Committee (quarterly), Ambulatory Care Committee (monthly), General Laboratory Meeting (semiannually), Infection Control Committee (monthly), and Management and Budget Briefings (annually). CAP and JCAHO documents will be made available to the resident so that he/she can become familiar with laboratory and hospital inspection and accreditation requirements. Additional activities which may be arranged during the rotation, depending upon the interests of the resident and availability of the experience, include participation in a CAP laboratory inspection, rounds with a clinical service, research project, instrument evaluation, and evaluation and trial of a new clinical test (Competency #6, see note).

5. Teaching staff for the rotation: Byron P. Croker, M.D., Ph.D., William L. Clapp, M.D., Li Lu, M.D., Ph.D., Miguel Tellado-Fente, M.D. Belinda Selli, M.D.

6. i. Supervision of residents: Supervision is provided by the pathologist on service, as well as the laboratory supervisors in each section of the clinical laboratory.

ii. Evaluation of the resident is based upon the resident's competencies in patient care, medical knowledge, practice-based learning and improvement, interpersonal and communication skills, professionalism and systems-based practice as recommended by ACGME guidelines.

Revised 2-3-2004

Note: The 6 ACGME competencies:

- #1. patient care,
- #2. medical knowledge,
- #3. practice-based learning and improvement,
- #4. interpersonal and communication skills,
- #5. professionalism,
- #6. systems-based practice.

MRVAMC Clinical Pathology and Laboratory Management Core Curriculum

The VAMC Clinical Pathology and Laboratory Management rotation offers the resident an opportunity to learn about the medical and administrative aspects of clinical pathology laboratory management.

During the first month on this rotation, the resident will spend two days in each section of the laboratory, gaining an appreciation of the types of procedures performed and the daily work flow. For the remainder of the rotation(s), the resident will divide his/her time among all sections of the laboratory, observing and performing tests, solving problems, interfacing between clinicians and the laboratory, and attending scheduled administrative activities. Problems and questions will be directed to the resident by laboratory supervisors as the resident makes morning rounds through the laboratory. The resident will devise a strategy to address each issue, and will implement the plan after consultation with the appropriate faculty member(s). Over the course of the rotation, the resident should feel free to select a variety of test procedures to perform, and should coordinate his/her participation with the laboratory supervisors. Participation in the following procedures is expected to be a part of the rotation:

Performance of bone marrow biopsies and aspirations	<u>Contact person</u> Gayle Jones, BA, MT
Interpretation of electrophoreses	
Workup of transfusion reactions	Mealinda Gomer, BS, MT (ASCP)
Hematology slide reviews	Gayle Jones, BA, MT
Evaluation of flow cytometry requests	Gayle Jones, BA, MT
Review of interesting microbiology cultures, stains, tests (ASCP)	Bev Franklin, B.S., MT

The resident will be introduced to the administrative aspects of clinical pathology laboratory management by participation in a variety of committee meetings (below) and quality assurance functions. CAP and JCAHO documents will be made available to the resident so that he/she can become familiar with laboratory and hospital inspection and accreditation requirements.

Supervisors Meeting (weekly)	Clinical Executive Board (monthly)
Directors Staff Meeting (weekly)	General Staff Meeting (quarterly)
Quality Improvement Committee (monthly)	Transfusion Committee (quarterly)
Ambulatory Care Committee (monthly)	General Laboratory Meeting (semiannually)
Infection Control Committee (monthly)	Management and Budget Briefings (annually)

Additional activities which may be arranged during the rotation, depending upon the interests of the resident and availability of the experience, include participation in a CAP laboratory inspection, rounds with a clinical service, research project, instrument evaluation, and evaluation and trial of a new clinical test.

Faculty supervision will be provided by VAMC faculty with consultation from Shands-based clinical pathology faculty.

CP ROTATION LABORATORY SCHEDULE

<u>DATES</u>	<u>LAB SECTION (ROOM #)</u>	<u>SUPERVISOR (EXT)</u>
	Hematology E126	Ms. Gayle Jones X6419
	Microbiology D334	Ms. Bev Franklin X6143
	Blood Bank E126	Ms. Mealinda Gomer X6023
	Chemistry/Immunology E126	Ms. Rosa Hutcheson X6417
	Central Processing E126	Ms. Coburn X6819
	Lab Administrator D324	Mr. Samya Sernaan-Heart X4022

CP ROTATION MEETINGS

<u>MEETING</u>	<u>DATE, TIME</u>	<u>PLACE</u>
Supervisor's meeting	Fourth Wed @ 1:30p	Fifth floor
System Director's staff	First Tues every month @ 9:00 am	Auditorium
Infection Control Com.	April 18, 2006 @ 10:00 am	2nd floor, video conference room
	July 18, 2006 @ 10:00 am	
Med. Executive Com.	None Scheduled	A125 (MIC)
Physician staff (staff mtg)	Monday, January 23 @ 9:30 am	D321-1
Transfusion Committee	TBA	2C - Dr. Kitchen's office
General lab meeting	None scheduled	E531
Mgmt & Budget brief	None scheduled	A125 (MIC)

By the end of the first 4-week rotation, the following clinical pathology procedures and competencies should be performed and achieved, respectively:

Interpretation of electrophoresis

- Participation in workup of transfusion reactions and identification of antibodies
- Preparation of peripheral smears and identification of normal cell types, left shift, microcytic anemia, chronic lymphocytic leukemia, acute leukemia
- Observation of bone marrow biopsy and aspiration
- Evaluation of flow cytometry requests
- Preparation of a gram stain and identification of gram positive and negative bacteria with various morphologies
- Recognition of Strep. pneumoniae, Staph. aureus, and Pseudomonas aeruginosa on a culture plate

Familiarity with the following areas of laboratory management should also be sought:

- Quality assurance program goals and mechanisms
- Laboratory inspection and accreditation procedures
- CLIA requirements and employee competency evaluation
- Human resources issues
- Budgetary issues
- Interactions with other services regarding interservice issues (Transfusion Committee, Infection Control Committee, Ambulatory Care Committee)

By the end of the second or subsequent 4-week rotation, an independent clinical pathology and/or laboratory management project will be developed in concert with the attending pathologist on service. At the end of the rotation, the results will be presented and discussed by the resident at the VA Pathology QA meeting and a written summary will be expected.