

PATHOLOGY RESIDENT HEMATOLOGY ROTATION (North Florida/South Georgia Veterans Health Care System): Rotation Director: William L. Clapp, M.D., Chief, Hematology Section, Gainesville VAMC; Consultants: Neil S. Harris, M.D., Director, Laboratory Hematology/Coagulation, University of Florida and Shands Hospital and Raul C. Braylan, M.D., Director, Hematopathology, University of Florida and Shands Hospital

- 1. Description of the Rotation:** In this rotation, the resident will gain experience in laboratory hematology, which will include (1) peripheral blood studies to evaluate a variety of hematologic disorders, including anemias, lymphoproliferative and myeloproliferative disorders and leukemias. The emphasis on a multidisciplinary approach to diagnose hematologic disorders (including correlation of the peripheral blood studies with bone marrow and lymph node studies) provides an opportunity for the resident to also gain additional experience in (2) traditional histopathology, (3) immunohistochemistry, (4) electron microscopy, (5) protein electrophoresis, (6) flow cytometry, (7) cytogenetics and (8) molecular genetics which may be performed on the peripheral blood, bone marrow or lymph nodes of patients. The residents will acquire valuable experience by independently performing some bone marrow procedures. In addition, the resident will gain experience in coagulation testing. The residents will become familiar with the instrumentation in the hematology laboratory, including the operating principles and trouble-shooting (*medical knowledge*). The availability of assembled case study sets and reading materials (*medical knowledge*) will enhance the resident's experience. Participation in CAP surveys, continuing education and hematology conferences is a component of the rotation (*practice-based learning*). Management issues and computer applications will be discussed (*practice-based learning*). As appropriate to the individual case or consultation under review, the ethical, socioeconomic, medicolegal and cost-containment issues will be reviewed and discussed. (*professionalism* and *systems-based practice*). By use of the literature, Pubmed and textbooks, the resident will be trained to become a lifelong learner.
- 2. Goals of the Rotation:** The resident will learn: (1) the instrumentation, the principles and quality control for automated complete blood counts (CBC); (2) to interpret abnormal CBC histograms; (3) to evaluate peripheral blood smears; (4) to integrate and analyze clinical and all laboratory findings, including CBC, bone marrow or lymph node biopsy findings, protein electrophoresis, flow cytometry and/or cytogenetic findings in the multidisciplinary diagnosis of a case (5) the instrumentation and quality control for coagulation assays; (6) to interpret coagulation assay results; and (7) about management issues, medical/legal issues and socioeconomic issues (cost containment and test utilization).
- 3. Duration of the Rotation:** Four week rotation.
- 4. Duties and Responsibilities of Residents:** The resident will assume increasing responsibility with increasing experience (*graduated responsibility*). The resident will be involved with the hematology laboratory personnel on a daily basis. In addition to providing consultation on abnormal blood counts, peripheral smears and coagulation results, the resident will integrate and analyze complicated cases (ex. clinical findings, bone marrow or lymph node biopsies with flow cytometry and/or cytogenetic studies). The resident will establish a log of bone marrow procedures performed/observed. The resident will be directly involved in the approval process for special studies (ex. flow cytometry).
- 5. Teaching staff:** Dr. Clapp, Dr. Harris, Dr. Braylan, Gainesville VA staff pathologists and staff of Gainesville VA Hematology Laboratory
- 6. Resident Supervision:** The resident will be supervised by the attending pathologist. Cases are reviewed on a daily basis. Reports are generated in concert with the attending faculty and signed out by the attending faculty.
- 7. Resident Evaluation:** Written monthly evaluation.

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