University of Minnesota Lab Medicine and Pathology

Senior Hematopathology Consultation Rotation

**Location:** D219 Mayo  
**Duration:** One month  
**Rotation Director:** Michael Linden, MD, PhD phone 612-273-5629 (pager 8102)  
**Other Faculty:** Elizabeth Courville, MD (2883), Bartosz Grzywacz, MD (4118), Pawel Mroz, MD, PhD (9741), Sarah Williams, MD (3830), Sophia Yohe, MD (9175),

**General Description:**  
The purpose of this advanced hematopathology rotation is to enhance the resident’s knowledge of the clinical, morphologic, immunologic and genetic changes of neoplastic and non-neoplastic disorders of the blood and bone marrow. Emphasis is placed on providing progressive responsibility in interpretation of bone marrow specimens. In addition, this rotation is designed to teach the resident efficient and cost effective use of ancillary studies in conjunction with morphology to making appropriate diagnoses in hematopathology. This rotation is intended for residents that have satisfactorily completed the initial 3-month rotation in hematopathology.

**Goals and Objectives:**  
Upon completion of this rotation, the resident will gain: (2-4 goals)  
- Expanded diagnostic skills in bone marrow pathology  
- Improved skill in formulating a hematopathology case report  
- Experience in communication of essential diagnostic information to clinician colleagues  
- Expanded understanding of the morphologic, immunophenotypic and genetic features of hematopoietic neoplasms

The learning objectives below reference the corresponding ACGME core competencies: Patient Care (PC), Medical Knowledge (MK), Professionalism (Prof), Communication Skills (CS), Practice Based Learning and Improvement (PBLI), and Systems-Based Practice (SBP). (8-10 objectives)

**General Expectations**

- Timely attendance is expected at all conferences; we understand that there may be periodic planned or unexpected delays / absences but it is essential for the resident to communicate with the fellows and staff if they will be absent or late.  
- Attendance and participation at the daily Hematopathology Consensus Conference at 8 AM in the multi-headed scope room (Prof, MK, CS)  
- Attendance, and presentation, at the Adult and/or Pediatric Hematology Malignancy Conferences (Prof, MK, CS, PC) – these each occur two times per month.  
- Attendance and participation at the monthly Pediatric Hematopathology Conference on the first Friday of each month (Prof, MK, CS, PC).  
- Attendance and presentation at the weekly Clinical Pathology (CP) conference at 12:00 on Tuesdays (Prof, MK, CS, PC).  
- Attendance and participation/preparation/previewing unknowns during the Tuesday and Thursday Hematopathology didactic lectures and unknown sessions (Prof, MK, CS, PC).  
- Demonstration of respect for fellow trainees and Hematopathology technicians and staff (Prof, CS).

**Rotation Specific Objectives**  
In addition to the above expectations, during this rotation the resident will:  
- Demonstrate mastery for the objectives of the prior Hematopathology rotations.  
- Provide appropriate supervision and teaching of junior trainees (PC, MK, PBLI, Prof)
• Review selected bone marrow cases independently and accurately conduct a morphologic evaluation of bone marrow (PC, MK, SBP)
• Obtain a detailed clinical history including possible prior pathology reports and accompanying ancillary studies including cytogentic, flow cytometric immunophenotyping and molecular genetic studies. (PC, MK, CS, PBLI, SBP)
• Incorporate clinical and laboratory studies in formulating the final report. (PC, MK, CS, PBLI, SBP)
• Efficiently and independently dictate and edit bone marrow reports, with final reports edited for correct grammar and spelling (PC, MK, CS)
• Perform reviews in a timely fashion by working efficiently to prevent significant delay in handling and diagnosis of cases (Prof, PC, MK, PBLI).
• Know the phenotypes and genetics of the various hematopoietic malignancies (PC, MK, PBLI)
• Interpret results of automated and manual cell counts and scattergrams (PC, MK, PBLI).
• Review abnormal results, correlate results with peripheral blood smear findings and clinical history (PC, MK, PBLI)

Assigned Reading:
• 2016 WHO Classification of Tumours of the Haematopoietic and Lymphoid Tissues, revised 4th edition.

Optional Reading:
• For more information or if you have time, read selected sections of these also:
  • Foucar K, McKenna W, Peterson L, Kroft S, Tumors of the Bone Marrow, AFIP Atlas of Tumor Pathology, Series 4, 2016

Call Duties: Resident may be required to take call after office hours for 1 week of the month (lymphoma workups).

During the rotation, the trainee is expected to join the following conferences:
• Clinical Pathology Conference: Tues 12:00-1:00 PM (weekly) – Mayo D175
• Resident Didactic Series: Wed 7:00-8:00 AM & 9:15-10:15 AM (weekly) – Mayo D175
• Lab Medicine/Pathology Grand Rounds: Wed 8:00-9:00 AM (weekly) – 450 MCRB
• Immunohematology Conference: Wed 3:00-4:00 PM (bi-monthly)
• Hematopathology Consensus Conference: Daily 8:00 AM – Multi-headed scope room
• Adult and/or Pediatric Hematology Malignancy Conference – 2 times per month each
• Pediatric Hematopathology Conference – first Friday of the month

Other Requirements:
• CP case logs should be emailed to the rotation director throughout the rotation to meet program requirements. A hematopathology faculty member will review case logs during the rotation and discuss them with residents. Resident is responsible to upload to the case log repository (available through the resident intranet).

Assessment methods:
Resident performance on this rotation will be assessed by:
• Formative feedback provided by attending physician(s)
• Performance evaluation completed by attending physician(s) at the end of the rotation