University of Minnesota Lab Medicine and Pathology
Immunology/HLA Rotation

Location: Varies
Duration: One month

Rotation Directors: Dr. David Maurer, Ph.D. Phone: 612-273-3131

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

The general expectations below are expected throughout the rotation. At the end of this month-long rotation, residents are expected to meet/exceed the goals and objectives of each of the subsequent subheadings:

A trainee who has satisfactorily completed the rotation is expected to:

• Understand the basic physiology and pathophysiology of the immune system
• Describe the most common indications for immunologic testing
• Understand the clinical situations in which immunologic testing may be informative and help guide patient care
• Be familiar with the different types of specimens received in the Immunology Laboratory, as well as the collection and storage requirements for each
• Know how these specimens are processed for the different types of assays performed in the Immunology Laboratory
• Know the technical basis for the different types of assays performed in the Immunology Laboratory, as well as their strengths and limitations
• Be able to describe the steps involved in test validations performed in the Immunology Laboratory
• Work with the rotation director(s) when troubleshooting of assays is needed
• Be able to interpret ANA and ANCA assays, and be able to assess the validity of results generated by automated instruments
• Be able to do a literature search to inform case interpretation
• Describe the major types of QA/QC performed in the laboratory
• Attend pertinent clinical conferences (e.g., incompatible kidney conference, HLA/transplant conference, Morbidity and Mortality conference, etc.)
• Assist clinical services as needed (e.g., management of platelet refractory patients)
• Attend selected clinics as organized in conjunction with Rheumatology Director
• Attend and assist in renal pathology case sign-out
General Expectations in the Immunology and HLA Laboratories

Patient Care

• Perform, review, interpret, and/or report tests with the rotation director(s)
• Understand the clinical implications and limitations of these tests
• With the guidance of the rotation director, communicate with physicians and pathologists about ordering immunologic testing and/or test results

Practice Based Learning and Improvement

• Obtain and critically evaluate the literature relevant to testing performed in the Immunology Laboratory
• Identify future directions in testing to advance patient care

Interpersonal and Communications Skills

• Develop effective working relationships with professional and technical staff in the Immunology Laboratory
• Demonstrate effective communication skills in the following areas:
  o Verbal, during discussions with clinicians and pathologists, including at conferences
  o Written, to communicate complex test results clearly and concisely
  o Presentation, to communicate written and visual data to a diverse audience, and to answer questions clearly and effectively

Professionalism

• Attend all laboratory meetings and activities, as instructed by the rotation director(s)
• Attend all required conferences (see below)
• Complete all assigned tasks in the time frame noted by the rotation director(s)
• Complete one case report per week, to be uploaded to case log

Systems Based Practice

• With the guidance of the rotation director(s), assist clinicians and pathologists in ordering immunologic testing to use resources efficiently and in a cost-effective manner
• Understand how immunologic testing affects care provided by other health care professionals
• Know how the Immunology Laboratory complies with various standards and guidelines provided by various scientific and regulatory organizations (e.g., CLIA, CAP, ASHI)

Required 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
• Blood Bank Breakfast Meeting: Thurs 8:30-10:00 (weekly) – 8th Floor Hospital Conference Room
• Morbidity & Mortality Conference: Fri 12:00-1:00 PM (weekly) – Moos 2-690

Assessment

Resident performance on this rotation will be assessed by:

• Global performance assessment completed by rotation director(s)
• Formative feedback will be provided by rotation director(s)