**Histocompatibility Rotation Goals and Objectives**

**Rotation Director:** Daniel Ramon, Ph.D.

The goal of the **Histocompatibility Rotation** is for the resident to move from being a

**Novice (**A novice knows little about the subject, and rigidly adheres to rules with little situational perception. He/she does not feel responsible for outcomes. )

To

**Advance Beginner or Competent** (The competent learner grasps the relevant facts, can sort information by relevance, can bring his/her own judgment to each case, and solve problems. Guidelines are adapted to unexpected events. He/she feels accountable for outcomes because of increasing decision-making.)

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| **First Rotation Goals** | **First Rotation Objectives** |
| **Medical Knowledge**  Acquires knowledge of pathophysiology and laboratory manifestations of common and uncommon conditions; knows where to access information to fill gaps in knowledge.  Acquires knowledge of less commonly-encountered conditions and laboratory techniques; critically evaluates knowledge sources and uses evidence-based approach | The resident will acquire knowledge about (see detailed content outline in web-based learning archive):   * Basic concepts of genetics, population genetics and biostatistics, MHC genetics and immunology: structure, function and polymorphism. * Serologic assays used in the HLA laboratory * Flow cytometric/Luminex assays as applied to histocompatibility * HLA typing-DNA technology |
| **Patient Care**  Is able to perform procedures necessary to generate laboratory information, gather clinical information needed to establish a diagnosis or differential diagnosis, and suggest appropriate ancillary studies. Responds to requests for consultation. | With appropriate supervision (see below), the resident will   * Review provided learning materials * Observe techniques at the bench to gain an understanding of the complex methodologies used * Be able to explain which techniques are used to solve different clinical problems * Observe and be able to explain the methods used to detect antibody production and detection related to organ/tissue rejection * Meet daily with laboratory director to analyze results |
| **Practice-based Learning and Improvement**  Uses feedback and evaluations to generate or modify learning plan and improve skills,  Adapts practices based on literature review, case outcomes, peer reviews, and system demands; seeks and gives feedback to improve self and others. | The resident:   * Use feedback from daily meetings and discussions with laboratory director to direct reading and to improve ability to arrive at accurate interpretations |
| **Interpersonal and Communication Skills**  Establishes collegial interactive and communication skills in dealing with others; structures reports that are clear, informative, and succinct; listens to and fulfills requests from other providers.  Effectively communicates in a variety of settings, including during conferences, while providing consultations, and teaching peers. | The resident will   * Communicate effectively with technical and administrative staff * Formulate analyses of laboratory data that are informative and understandable * Volunteer his/her opinion of cases at daily signout |
| **Professionalism**  Is honest, compassionate, and respectful of others; complies with laws and regulations pertaining to medical practice; fulfills patient care and educational responsibilities faithfully.  Understands professional responsibility to appear for duty rested and fit to provide service. Recognizes and responds to need for help from colleagues. | The resident:   * Interacts in a respectful and collegial manner with technical and administrative staff, and with laboratory directors/faculty * Attends all scheduled activities prepared to participate * Is sensitive to patient privacy in all communications, including emails, faxes and any other situation in which privacy must be maintained * Responds appropriately to requests for consultation or other requests from clinical or technical staff |
| **Systems-based Practice**  Identifies issues related to error, cost, and the need for interdisciplinary collaboration in the delivery of health care. | The resident:   * Learns the relationship of the institution with other organizations related to tissue transplantation, including Gift of Life and UNOS. |

**Plan for Training**

This is a one month rotation located at the HLA Laboratory at the Traverwood site. Residents will undertake a combination of observational and interpretative activities as directed by the rotation director.

**Supervision**

The following activities are to be conducted with **Direct Supervision** (the supervising physician is physically present with the resident):

Daily interpretive signout with laboratory director

The following activities may be conducted with **Indirect Supervision** (direct supervision immediately available either within the hospital of by telephonic or electronic communication):

Rotation through laboratory benches

The following activities may be conducted with **Oversight** (the supervising physician is available to review with feedback after activity is completed):

Review of provided written learning material

Evaluation

* Electronic (MedHub) evaluation completed by faculty at the conclusion of each rotation
* Resident Inservice Examination (annually)