

GENETICS

Genetics is available as a selective rotation to all levels of residents for 2 or 4 weeks. While on this rotation, residents are required to attend and be active participants in all required clinics (see below), and to maintain their own continuity clinic.

Tuesday AM	Dr. Waggoner and Dr. Dobyns
Thursday AM	Craniofacial clinic/Neurogenetics clinic
Friday AM	Dr. Waggoner

When instructed, residents are required to complete consultations on hospitalized patients thoroughly so that they are prepared to present and discuss the patients on rounds with the attending. Residents are required to follow the consult patients and communicate recommendations to the inpatient team.

Residents are required to attend the following conferences:

Lab/clinical case conference, Tuesday 2:30 PM
Journal club/Cancer pedigree, 1st & 2nd Wednesday 3:00 PM
Genetics Departmental conference, Thursday 2:00 PM

Goals, Objectives and Resident Responsibilities of the Genetics Experience:

Patient Care: Residents are expected to provide patient care that is compassionate, appropriate and effective for the promotion of health, prevention of illness, treatment of disease and at the end of life. In order to accomplish this, residents will

- Gather accurate, essential information from all sources, including medical interviews, physical examinations, medical records and diagnostic/therapeutic procedures
- Make informed recommendations about preventive, diagnostic and therapeutic options and interventions that are based on clinical judgment, scientific evidence, and patient preference
- Develop, negotiate and implement effective patient management plans and integration of patient care
- Improve their skills at obtaining a family history, performing a dysmorphology exam, diagnosing complex genetic conditions and understanding the importance and intricacies of genetic counseling

Medical Knowledge: Residents are expected to demonstrate knowledge of established and evolving biomedical, clinical and social sciences, and the application of their knowledge to patient care. They will apply an open-minded, analytical approach to acquiring new knowledge, access and critically evaluate current medical information and scientific evidence and apply this knowledge to clinical problem-solving, clinical decision-making, and critical thinking.

Specifically, during the genetics selective, the resident will

- Pursue directed readings that focus on the genetic basis of pediatric and adult diseases

- Learn the appropriate use of laboratory tests and diagnostic procedures in the evaluation and management of pediatric and adult genetic diseases
- Learn to interpret genetic testing
- Develop a better understanding of the diagnosis, management and long term outcomes of common genetic disease
- Be prepared to discuss the following topics as a result of experience, didactic sessions or reading:

Chromosomal disorders
 Metabolic diseases
 Metabolic testing
 Craniofacial abnormalities
 Neurogenetic disorders
 Syndromes
 Single gene disorders
 Molecular tests: techniques and interpretation
 Inheritance patterns
 Genetic counseling

Practice-Based Learning and Improvement: Residents are expected to be able to use scientific evidence and methods to investigate, evaluate, and improve patient care practices, and

- Identify areas for improvement and implement strategies to enhance knowledge, skills, attitudes and processes of care
- Analyze and evaluate practice experiences and implement strategies to continually improve the quality of patient practice
- Develop and maintain a willingness to learn from errors and use errors to improve the system or processes of care
- Use information technology or other available methodologies to access and manage information, support patient care decisions and enhance both patient and physician education

Interpersonal and Communication Skills: Residents are expected to demonstrate interpersonal and communication skills that enable them to establish and maintain professional relationships with patients, families, and other members of health care teams, and

- Learn to provide effective and professional consultation to other physicians and health care professionals and sustain therapeutic and ethically sound professional relationships with patients, their families, and colleagues
- Use effective listening, nonverbal, questioning, and narrative skills to communicate with patients and families
- Interact with referring physicians in a respectful, appropriate manner
- Maintain comprehensive, timely, and legible medical records
- Complete evaluations of the attending, staff and rotation

Professionalism: Residents are expected to demonstrate behaviors that reflect a commitment to continuous professional development, ethical practice, an understanding and sensitivity to diversity and a responsible attitude toward their patients, their profession and society, and

- Demonstrate respect, compassion, integrity, and altruism in relationships with patients, families, and colleagues
- Demonstrate sensitivity and responsiveness to the gender, age, culture, religion, sexual preference, socioeconomic status, beliefs, behaviors and disabilities of patients and professional colleagues
- Adhere to principles of confidentiality, scientific/academic integrity, and informed consent

Systems-Based Practice: Residents are expected to demonstrate both an understanding of the contexts and systems in which health care is provided, and the ability to apply this knowledge to improve and optimize health care, and

- Understand, access and utilize the resources, providers and systems necessary to provide optimal care
- Understand the limitations and opportunities inherent in various practice types and delivery systems, and develop strategies to optimize care for the individual patient
- Apply evidence-based, cost-conscious strategies to prevention, diagnosis and disease management
- Collaborate with other members of the health care team to assist patients in dealing effectively with complex systems and to improve systematic processes of care
- Utilize external support networks for families with children who have genetic disorders