

Name of rotation: Gastroenterology Research
University Hospital or affiliated research labs

Course director: to be arranged with individual faculty members

General description of the rotation including educational purpose, rationale or value:

The fellow will become involved in a new or ongoing research project involving Gastroenterology in either laboratory or clinical investigation. They will have the opportunity to work closely with a faculty mentor to become involved in active research investigation from the bedside to the laboratory. The goal of this rotation is to provide the fellow with a meaningful, supervised research experience while learning research design and interpretation of research studies, responsible use of informed consent, research methodology, interpretation of data, and standards of ethical conduct of research.

Fellow responsibilities:

The fellow will meet on a regular basis with their faculty research mentor who provides guidance and instruction. The fellow participates in the evaluation of an appropriate research project, reviews the pertinent medical literature, learns the performance and conduct of pertinent research laboratory tests, reviews methods of data analysis, and attends research meetings. Fellows present their research plan and findings at regular research conferences and learn to write abstracts and manuscripts for presentation at scientific meetings.

Educational objectives: An expanded version of the competencies is listed under Core Competencies in Gastroenterology. Those listed here are specific to this rotation.

During this rotation, the fellow will:

Patient Care

1. For clinical research – develop an understanding of the relationship and potential conflicts between clinical care and clinical research.

Medical Knowledge

1. Expand knowledge base in gastroenterology as it relates to the specific research project

Practice-based Learning

1. Learn the principles of research design, methodology, and conduct of experiments.
2. Gain experience in the management and evaluation of experiments (basic research) or of clinical research subjects (clinical research).
3. Learn the basic laboratory skills pertinent to the selected research project.
4. Learn the principles of data analysis as they relate to the selected research project.
5. Learn to write abstracts and manuscripts based on the selected research project.

Interpersonal and Communication Skills – see Core Competencies

Professionalism – see Core Competencies

System-Based Practice – see Core Competencies

Check all principal teaching methods used during this rotation:

X	Attending teaching rounds		Interdisciplinary rounds
	Patient management discussions	X	Small group discussions

X	Conferences		Bedside clinical rounds
X	Individual instruction of procedures		Review of diagnostic studies, including radiology
X	Other: Research conferences, laboratory training, review of biomedical research literature		

Describe the most important educational content, including the mix of diseases, patient characteristics, types of clinical encounters, procedures, and services:

The fellow chooses to work with a faculty investigator with the research skills and project that fits the interest of the fellow. Mentoring is 1:1 in techniques for the conduct of research, either in basic science or clinical research. Fellows will receive training in formulation of hypotheses and specific aims, study design, research methods, and laboratory testing. Fellows are expected to analyze data and prepare abstracts for presentation and manuscripts for publication.

Check the principal ancillary educational materials used:

	Reading lists		Pathologic material
	Radiologic studies	X	Other noninvasive studies
X	Handouts on relevant topics	X	Articles from the literature
X	Other: 1:1 mentoring by faculty investigators		Case studies

Methods used to evaluate the fellow and the rotation:

X	Evaluation of fellow performance and professionalism
X	Evaluation of attending teaching skills and other attributes
X	Rotation assessment by fellow
	Observation of fellow's clinical competency
	Observation of fellow's leadership and teaching skills
	Review of the fellow's history/physical exam, progress notes, and documentation of procedures
X	Fellow's attendance of rounds and conferences monitored
X	Other: Research aptitude and productivity

Identify strengths and limitations specific to the resources of the sponsoring institution:

The Division of Gastroenterology has several NIH-funded investigators who have mentored fellows, residents, and students in research projects. Research opportunities are also available through other divisions in the Department of Medicine, the School of Medicine, and other institutions including the National Institutes of Health. Limitations include a finite number of fellows able to work with any single investigator or single project.

Conferences or Attending/Patient Care Rounds

<u>Name</u>	<u>Location</u>	<u>Day</u>	<u>Time</u>
Research Conference	UMH	Tuesday	12:30 pm

Updated: January 2006