

The Methodist Hospital Rotation

Curriculum for Year II & III Fellows

Educational Purpose:

The Methodist Hospital introduces the fellow to both outpatient and inpatient hospital management of patients with gastrointestinal diseases. During this four-week rotation, fellows will work directly with faculty and community-based gastroenterologists for both clinic and inpatient work. During this period, the fellow will have the opportunity to assess a wide variety of acute and chronic gastrointestinal conditions and will receive specialized exposure to advanced endoscopic procedures; given that The Methodist Hospital is a facility that takes care of a significant number of outside patient referrals for these types of procedures. The fellow will participate in increasing levels of management/ treatment involvement with patient needs and procedures, depending on the fellow's level of experience. The fellow will be expected to formulate the differential diagnosis, institute diagnostic studies and recommend therapy. The amount of learning obtained from this rotation is directly proportional to the amount of time spent in the evaluation of the patients.

Objectives:

Fellows will learn all aspects of inpatient and outpatient gastrointestinal care and will display all general competencies during this experience. Minimum levels of achievement in each competency are expected during each of the three years of fellowship training. Those meeting competency will receive a score of 5 in the program's evaluation system. Fellows performing at a level better than expected for that competency receive a score of 6 or 7 in the evaluation system, those at a level better than most fellows at that PGY receive an 8, and those performing at a level deemed to be "one of the best fellows ever observed" will receive a score of 9. Fellows receiving a score of 4 or below are deemed deficient in that competency; this will be brought to the attention of the program director immediately, and, if necessary, remediation will be implemented.

The following are the goals and objectives for each competency at each level of training for The Methodist Hospital Rotation:

Year II Fellow:

Goal: A Year II fellow should learn to assess and care for a larger volume of patients and learn and teach basic textbook and evidence-based medicine to medical students and other trainees. Year II fellows should independently perform diagnostic upper endoscopy and colonoscopy and begin to perform therapeutic maneuvers.

Patient Care Objectives:

- Complete a time-efficient history and physical examination.
- Complete competency-level performance of the following basic gastroenterology procedures:
 - Colonoscopy
 - By completion of Year II, master all Year I colonoscopic skill requirements. Additionally, perform endoscopic maneuvers, including snare polypectomy and begin to develop competency in control of GI bleeding: sclerotherapy and thermal coagulopathy of bleeding vessels.
 - Upper Endoscopy
 - By completion of Year II, master all Year I upper endoscopic skill requirements. Additionally, begin to develop competency in performing therapeutic maneuvers: banding and sclerosing of varices, and sclerotherapy and thermal coagulopathy of bleeding vessels.
 - ERCP and EUS
 - Should understand the indications of these procedures as well as risks and benefits of such procedures.
 - Passage of side viewing endoscope and visualization of the ampulla of vater.
- Develop clear expertise in the diagnosis and management of acute and chronic inpatient gastrointestinal diseases including:
 - Neuroendocrine diagnosis
 - Intestinal/colonic pseudobstruction
 - Secretory diarrheal states
 - Idiopathic abdominal pain
 - Upper & lower GI bleeding
 - Peptic ulcer disease
 - Inflammatory bowel disease
 - GI infections
 - Pancreatitis (acute and chronic)
 - Ischemic colitis
 - Bile duct stones
 - Biliary and liver cancer
 - Post-operative injuries to the liver, bile ducts and pancreas
 - Barrett's Esophagus
- Present cases succinctly in a direct manner.

- Know The Methodist Hospital patients at a management level.
- Handle consult calls respectfully and appropriately.
- Teach good symptom management skills to other trainees.
- Provide inpatient care that is safe and compassionate and develop the ability to thoroughly and clearly educate the inpatient in the relevant areas of disease prevention, detection, progression and therapy to promote gastrointestinal health.

Medical Knowledge Objectives:

- Begin to take a leadership role at core conferences and teaching rounds regarding the pathophysiology, epidemiology, disease management and procedures and medicine management skills for common and uncommon inpatient gastrointestinal diseases including:
 - Neuroendocrine diagnosis
 - Intestinal/colonic pseudobstruction
 - Secretory diarrheal states
 - Idiopathic abdominal pain
 - Upper & lower GI bleeding
 - Peptic ulcer disease
 - Inflammatory bowel disease
 - GI infections
 - Pancreatitis (acute and chronic)
 - Ischemic colitis
 - Colon cancer
 - Pancreatic cancer
 - Bile duct stones
 - Biliary and liver cancer
 - Post-operative injuries to the liver, bile ducts and pancreas
 - Barrett's Esophagus
- Organize the team's performance at teaching rounds.
- Read textbook and pertinent literature materials concerning problems encountered, especially related to GI cancers
- Teach other trainees about GI disease states and patient management.
- Achieve an average percentile score of at least 62.98 on the "General" section of the in-service Gastroenterology Training Examination (GTE) exam. This score is the national average on this exam for Year II fellows.

Practice-Based Learning Objectives:

- Participate in project groups, committees and hospital groups when requested.
- Participate in programmatic reviews and conferences studying adverse events.
- Give usable feedback to medical students and other trainees based on observation of their performance and assess improvement.
- Participate in problem-based quality improvement projects.
- Review, analyze and utilize scientific evidence from the gastrointestinal literature for the management of GI patients.
- Know the best practice patterns to facilitate gastroenterology care through clinic operating procedures and patient interactions.

Interpersonal Communication Skill Objectives:

- Interview patients and family members accurately, patiently and compassionately and present information in an understandable manner. Convey bad news compassionately and honestly.
- Plan patient and family conferences.
- Counsel patients about transitioning to palliative care, when needed.
- Address or refer patients related to spiritual or existential issues.
- Communicate effectively with staff, peers, attending gastroenterologists, referring physicians and other consultants.
- Present cases succinctly, in a problem-based, direct manner.
- Learn to become a teacher of gastroenterology to junior trainees, medical students and other healthcare professionals.

Professionalism Objectives:

- Begin to mentor other trainees in professional conduct.
- Understand and demonstrate professional behavior in daily activities.
- Participate in professionalism-based learning activities through conferences.
- Interact collegially with his/her peer group and other healthcare professionals, including acting responsibly in the larger context of pursuing programmatic successes.
- Practice ethical principles with relation to patient care and confidentiality.
- Practice interactions with pharmaceutical representatives and be unbiased in prescribing habits.
- Practice sensitivity to cultural, age, gender and disability issues.
- Cross-cover colleagues' services when needed and conduct this coverage carefully with appropriate feedback to responsible colleagues.
- Participate in program planning, including annual Faculty Meeting attendance, Fellow Curriculum Committee participation and Program Director meetings, when requested.

Systems-Based Practice Objectives:

- Attend conferences concerning healthcare system patient management and components of systems of healthcare.
- Understand and be able to work effectively related to hospital functions within The Methodist Hospital.
- Understand and practice proper documentation and billing skills to practice cost-effective care.
- Assist other trainees in the utilization of appropriate healthcare resources for the best care of the GI Hospital Service's patients.
- Model appropriate interactions in multidisciplinary planning, including standard operating procedures and quality improvement initiatives.
- Attend national gastroenterology or hepatology conferences (e.g., DDW or AASLD).

Year III Fellows:

Goal: The senior-level, Year III fellow should demonstrate rapid assessment and planning skills and near-attending level care planning and management, while teaching other trainees at near to or exceeding attending level teaching. Year III fellows should be able to perform diagnostic and therapeutic upper endoscopy and colonoscopy procedures independently.

Patient Care Objectives:

- Master the Year II fellow objectives.
- Demonstrate efficient organization of The Methodist Hospital and a working knowledge of all patients.
- Demonstrate near-attending level capacity for program assessment and care planning.
- Attain trainer level proficiency in the following gastroenterology procedures pertinent to his/her career choices:
 - Colonoscopy
 - By completion of Year III, master all Year II colonoscopic skill requirements. Additionally, be able to independently intubate the terminal ileum and begin to develop independent mastery of more advanced maneuvers, e.g., removal of large or complex polyps by saline assisted polypectomy or piecemeal resection and control of bleeding using clips or argon plasma laser coagulation.
 - Upper Endoscopy
 - By completion of Year III, master all Year II endoscopic skill requirements. Additionally, be able to pass a side viewing scope to identify the papilla or lesions difficult to observe with forward viewing scope and perform advanced maneuvers, such as placing clips on bleeding vessels or argon plasma laser coagulation.
 - ERCP
 - Cannulation of bile duct and perform sphincterotomy and placement of bile duct stents.
 - Pancreatic divisum
 - Congenital biliary abnormalities
 - Biliary strictures and primary sclerosing cholangitis
 - Management of bile duct injuries related to trauma
- Secure expertise in the diagnosis and management of acute and chronic inpatient gastrointestinal diseases including:
 - Neuroendocrine diagnosis
 - Intestinal/colonic pseudobstruction
 - Secretory diarrheal states
 - Idiopathic abdominal pain
 - Upper & lower GI bleeding

- Peptic ulcer disease
 - Inflammatory bowel disease
 - GI infections
 - Pancreatitis (acute and chronic)
 - Ischemic colitis
 - Colon cancer
 - Barrett's Esophagus
 - Pancreatic Cancer
 - Bile duct stones
- Secure expertise in the diagnosis and management of acute and chronic inpatient pancreaticobiliary diseases including:
 - Acute Pancreatitis
 - Chronic Pancreatitis
 - Pancreatic Cancer
 - Pancreatic divisum
 - Congenital biliary abnormalities
 - Biliary strictures and primary sclerosing cholangitis
 - Pancreatic necrosis
 - Management of bile duct injuries related to trauma
 - Bile Duct Stones
 - Liver Cancer
 - Biliary Cancer
 - Post-Operative Injuries to the Liver, Bile Ducts & Pancreas
- Provide inpatient care that is safe and compassionate with the leadership ability to thoroughly and clearly educate the inpatient and all other trainees regarding relevant areas of disease prevention, detection, progression and therapy to promote gastrointestinal health.

Medical Knowledge Objectives:

- Access and critique the medical literature regarding gastroenterology and hepatology problems encountered.
- Assume the trainee leadership role at core conferences and teaching rounds regarding the pathophysiology, epidemiology, cancer screening, disease management, procedures and medicine management skills for common and uncommon inpatient gastrointestinal diseases including
 - Neuroendocrine diagnosis
 - Intestinal/colonic pseudobstruction
 - Secretory diarrheal states
 - Idiopathic abdominal pain
 - Upper and lower GI bleeding
 - Peptic ulcer disease
 - Inflammatory bowel disease
 - GI infections
 - Pancreatitis

- Ischemic colitis
 - Colon cancer
 - Barrett's Esophagus
 - Pancreatic Cancer
 - Pancreatic divisum
 - Congenital biliary abnormalities
 - Biliary strictures and primary sclerosing cholangitis
 - Pancreatic necrosis
 - Management of bile duct injuries related to trauma
- Teach medical students, other trainees and Year II fellows at near-attending level.
 - Prepare for the ABIM certifying exam throughout the year.
 - Organize team activities in a smooth and authoritative fashion.
 - Assist Year II fellows' development directly at teaching conferences and indirectly at work sites.
 - Achieve an average percentile score of at least 64.07 on the "General" section of the in-service Gastroenterology Training Examination (GTE) exam. This score is the national average on this exam for Year III fellows.

Practice-Based Learning Objectives:

- Demonstrate mastery of Year II fellow skills and encourage participation of colleagues.
- Review, analyze and utilize scientific evidence from the gastrointestinal literature for the management of GI patients, taking a leadership role in guiding Year I & II fellows and sharing relevant literature reviews with them.
- Know and be able to succinctly communicate the best practice patterns to facilitate gastroenterology care through clinic operating procedures and patient interactions. Attend to the special requirements of a gastroenterologist in a community practice setting.

Interpersonal Communication Skill Objectives:

- Interview patients and family members accurately, patiently and compassionately and present information in an understandable manner. Convey bad news compassionately and honestly.
- Supervise Year II fellows' work related to planning patient/family conferences and patient communications/counseling.
- Communicate effectively as a consultant with staff, peers, attending gastroenterologists, referring physicians and other consultants and lead other trainees related to appropriate fellow-to-medical-professional communications.
- Present cases succinctly, in a problem-based, direct manner.
- Assume the role of a teacher of gastroenterology to junior trainees, medical students and other healthcare professionals.

Professionalism Objectives:

- Demonstrate proficiency in Year II objectives.
- Mentor Year II fellows in professional conduct.

- Assist in formal teaching exercises as requested.
- Assert leadership in program planning, including fellow participation in the annual Faculty/Fellow Meeting, Fellow Curriculum Committee and Conference Planning Committees.

Systems-Based Practice Objectives:

- Attend conferences concerning healthcare system patient management and components of systems of healthcare.
- Assist and mentor other trainees in utilization of appropriate The Methodist Hospital healthcare resources for the best care of the GI Hospital Service's patients, including proper documentation and billing skills.
- Model appropriate interactions in multidisciplinary planning, including improvements related to standard operating procedures and quality improvement initiatives.
- Participate in hospital and national medical association committees and multidisciplinary planning groups when requested.
- Attend national conferences directed at career goals.
- Demonstrate near-attending level utilization of overall systems of care.

Teaching Methods:

Gastroenterology fellows participate in The Methodist Hospital during their second or third fellowship years. One fellow is assigned to this service during all rotations. Teaching of residents and other trainees as well as appropriate interactions with other healthcare providers are important aspects of this rotation. Participating in all required conferences is mandatory, and rounding is an integral part of this experience. As fellows gain experience throughout their training, skills of organization and efficiency as well as team leadership become increasingly important.

The Methodist Hospital Rotation experience will prepare the fellow to evaluate and manage acute and chronic gastrointestinal illnesses that will be encountered in the fellow's future practice. Inpatient rounding, clinic responsibilities and exposure to gastroenterology in a community practice setting will be part of this rotation. The Methodist Hospital Rotation will expose the fellow to a wide variety of acute abdominal inflammatory processes, major gastrointestinal hemorrhages, pancreatobiliary pathology and a wide variety of gastrointestinal problems.

Fellows assigned to this rotation will evaluate all new consults at The Methodist Hospital and will be assigned to a continuity clinic one-half day per week. They will present new consults to the attending by the following day for routine consults and as soon as possible for emergencies. Fellows will evaluate each patient and will make initial recommendations regarding diagnostic tests and treatments. They will make arrangements for studies such as endoscopy, motility tests, biopsies, etc. They will review the appropriateness of the procedure with the attending before making final scheduling plans. The fellow will follow each patient under active consultation on a regular basis, will make further recommendations as indicated and will keep the attending informed of the patient's status. Fellows must also communicate with the procedure fellow for all diagnostic studies.

Disease Mix:

The Methodist Hospital has a substantial primary care basis, which provides the entire spectrum of internal medicine diagnoses and gastrointestinal care, allowing the Fellows to see a complete mix of gastrointestinal diseases.

Diagnoses range from pancreatitis, inflammatory bowel disease, and functional GI motility and pain disorders to primary and secondary gastrointestinal malignancies, and there is an appropriate concentration of common gastrointestinal diseases such as peptic ulcer disease, gastroesophageal reflux disease and gastrointestinal infections. In particular, The Methodist Hospital is a state and international referral center, and there is outstanding diversity of unusual diagnoses in the teaching services.

Patient Characteristics:

The Methodist Hospital Rotation experience offers a diverse mix of socioeconomic and gender status. Teaching faculty provide an abundant supply of upper- and middle-class patients, and our contracts with medical assistance and pro bono care efforts ensure access to lower-income patients. Due to a primary care base simultaneous with the hospitals' constantly active referrals, patients are seen in both acute status and in diagnostic dilemma status, with both common and uncommon disorders.

Types of Clinical Encounters – Attending Supervision:

Encounters are inpatient in nature during The Methodist Hospital Rotation. Fellows provide 24/7 consultative care under the supervision of an attending within duty hour limits and with faculty back up for situations of overload. Daily attending supervision is available at The Methodist Hospital seven days per week, and in-house supervision is available all night as well. The attending has ultimate responsibility for patients.

Procedures:

During The Methodist Hospital Rotation, procedures are performed during daytime hours in the GI lab by the fellow under the direct supervision of the attending.

Evaluation:

Fellows are evaluated during The Methodist Hospital Rotation by the faculty. This occurs in the following forms:

- Detailed, automated evaluations using the GMEIS system are submitted for each rotation. These evaluations are reflective of the program's curriculum requirements. Faculty evaluate fellows, and the fellows evaluate the attending and rotation.

Quarterly evaluations include:

- 360-degree (attending, nurse, nurse practitioner, staff/clerk, etc.);
- Peer-reviewed; and
- Patient.

Evaluation summaries become part of the fellows' and attendings' promotional documents.

- The fellow also evaluates the Gastroenterology Fellowship Program annually through a confidential basis.

- Faculty evaluate the Gastroenterology Fellowship Program annually.
- A Curriculum Committee oversees major changes to the curriculum. Representative program personnel (i.e., program director, representative faculty and at least one fellow) must be organized to review program goals and objectives and the effectiveness with which they are achieved. This group must conduct a formal documented meeting at least annually for this purpose. In the evaluation process, the group must take into consideration written comments from the faculty, the most recent report of the GMEC of the sponsoring institution and the residents' confidential written evaluations. If deficiencies are found, the group will prepare an explicit plan of action, which should be approved by the faculty and documented in the minutes of the meeting.
- The Program Director meets with all fellows individually twice per year.
- An in-service GTE exam is given to all fellows annually.

Contact:

Alberto Barroso, MD and Attila Ertan MD are appointed Site Supervisors for The Methodist Hospital Rotation.

Bibliography:

- Resource Documents
 - *Up-To-Date*
 - *PubMed*
 - *Textbook of Gastroenterology* – Yamada, et.al.
 - *Gastrointestinal Disease: Pathophysiology Diagnosis Management* – Sleisenger & Fordtran.
 - Major Gastroenterology journals online and in the program's fellow library including *Gastroenterology*, *American Journal of Gastroenterology*, *Gut*, and other major publications.
- Curricular Design
 - ACGME Outcome Project documentation (from www.acgme.org).
 - Graduate Education in Internal Medicine: A Resource Guide to Curriculum Development
 - The report of the Federated Council for Internal Medicine Task Force on the Internal Medicine Residency
- Pertinent Teaching References:
 - *Textbook of Gastroenterology* – Yamada, et.al.
 - *Gastrointestinal Disease: Pathophysiology Diagnosis Management* – Sleisenger & Fordtran.

**Competencies-at-a-Glance
The Methodist Hospital**

| COMPETENCY | LEARNING OPPORTUNITY | EVALUATION |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Patient Care | <ul style="list-style-type: none"> ▪ Work Rounds ▪ Teaching Rounds ▪ Conferences | <ul style="list-style-type: none"> ▪ 360-global evaluations ▪ GTE in-service exam ▪ Direct Observation |
| Medical Knowledge | <ul style="list-style-type: none"> ▪ Work Rounds ▪ Teaching Rounds ▪ Conferences | <ul style="list-style-type: none"> ▪ 360-global evaluations ▪ GTE in-service exam |
| Practice-Based Learning | <ul style="list-style-type: none"> ▪ Quarterly M&M Conference ▪ Work Rounds | <ul style="list-style-type: none"> ▪ 360-global evaluations ▪ Direct Observation |
| Interpersonal Skills | <ul style="list-style-type: none"> ▪ Work Rounds | <ul style="list-style-type: none"> ▪ 360-global evaluations |
| Professionalism | <ul style="list-style-type: none"> ▪ Work Rounds ▪ Conferences | <ul style="list-style-type: none"> ▪ 360-global evaluations ▪ E-portfolio self-documentation |
| Systems-Based Practice | <ul style="list-style-type: none"> ▪ Committee Participation ▪ Grand Rounds (GI & Medical) ▪ Conferences | <ul style="list-style-type: none"> ▪ 360-global evaluations |

The Methodist Hospital provides primary fellow exposure to gastrointestinal patients and career-related experiences in a community gastroenterology practice setting. All Service responsibilities reflect the teaching and evaluation of all six competencies. Day-to-day patient care, related teaching and the curriculum conferences during the rotation are the greatest elements that teach the competencies, and the global evaluation (provided for each rotation) is the most important single measurement device. In addition to didactic learning, medical center committee participation is encouraged to bolster system-wide knowledge and practice management understanding.

Revised: January 2010
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 UT Houston GI Fellowship