

# **Inpatient GI Consult Service**

## **LBJ General Hospital**

### **Curriculum for Year I, II & III Fellows**

#### **Educational Purpose:**

The LBJ rotation comprises several aspects of clinical gastroenterology: consultation on inpatients and, when necessary, endoscopic procedures. The patient population at LBJ provides opportunities for particularly unique experiences within the gastroenterology fellowship.

In terms of evaluation and management, fellows at LBJ have certain opportunities to fulfill critical components of the gastroenterology curriculum:

Fellows at LBJ evaluate and manage abdominal pain, including acute abdominal pain, nausea and vomiting. There is significant exposure to the spectrum of both upper and lower gastrointestinal bleeding, including variceal and non-variceal bleeding. The fellows have the opportunity to evaluate and treat patients with both acute and chronic jaundice, abnormal liver function tests, cirrhosis, and malnutrition.

In particular, the rotation at LBJ gives significant opportunities to learn acid peptic, vascular, and infectious disorders of the gastrointestinal tract. Fellows are exposed to both alcoholic and gallstone pancreatitis. Fellows also see the spectrum of alcoholic liver disease. There is significant exposure to HIV involvement of the gastrointestinal tract. It is important to mention that fellow will be participating in the care of a large volume of Hispanic patients. This will create a valuable exposure to certain gastrointestinal diseases that are more prevalent in this group of patients (i.e. gallstone disease, gastrointestinal infections and other).

In terms of technical proficiency, LBJ allows the fellows to increase their competency in endoscopy, stricture dilation, gastrostomy feeding tube placements, esophageal variceal banding, and other methods to control acute gastrointestinal bleeding.

#### **Objectives:**

Fellows will learn all aspects of inpatient 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 Inpatient GI Consult Service at LBJ Hospital:

#### **Year I Fellow:**

##### **Goal:**

A Year I fellow should be able to assess new patient problems, formulate and execute a treatment plan with guidance and teach basic gastroenterology skills to medical students and other trainees. Year I fellows should begin to develop basic procedural competencies in diagnostic upper endoscopy and colonoscopy.

### **Patient Care Objectives:**

- Perform an accurate physical examination and present information concisely with an initial assessment plan. Follow the patient's disease course during the patient's hospital stay. With attending consultation, formulate and execute an impression and a list of recommendations for the primary service. When indicated, consent patients for procedures and order appropriate diagnostic tests (e.g., endoscopy, radiologic tests, etc.) in conjunction with the primary/referring service.
- Perform with supervision the following basic gastroenterology procedures:
  - Colonoscopy
    - By completion of Year I a fellow should be able to perform a diagnostic colonoscopy to the cecum with limited assistance.
  - EsophagoGastroDuodenoscopy (EGD or Upper Endoscopy)
    - By completion of Year I a fellow should be able to perform a diagnostic endoscopy to the second portion of the duodenum.
- Develop expertise in the diagnosis and management of acute and chronic inpatient gastrointestinal diseases including:
  - Upper & lower GI bleeding
  - Peptic ulcer disease
  - GI infections
  - Ischemic colitis.
  - Abdominal Pain
  - Inflammatory bowel disease
- Learn to provide inpatient care that is safe and compassionate and to 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:**

- Attend core conferences and teaching rounds to learn the pathophysiology, epidemiology, disease management and procedure and medicine management skills for common and uncommon inpatient gastrointestinal diseases including:
  - Upper & lower GI bleeding
  - Peptic ulcer disease
  - GI infections
  - Ischemic colitis
  - Inflammatory bowel disease
- Accumulate and begin to solve the issues that he/she encounters from other trainees, attendings and related medical professionals.
- Teach medical students the basics of gastroenterology and hepatology care.
- Achieve an average percentile score of at least 61.18 on the "General" section of the in-service Gastroenterology Training Examination (GTE) exam. This score is the national average on this exam for Year I fellows.
- By end of Year I, pass the Internal Medicine Board Examination.

### **Practice-Based Learning Objectives:**

- Become familiar with the concepts of quality improvement.
- Participate in conferences such as M&M, geared to the programmatic review of adverse events.
- Begin to review, analyze and utilize scientific evidence from the gastrointestinal literature for the management of GI patients.
- Learn 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 and compassionate manner. Convey bad news compassionately and honestly.

- Learn to communicate effectively with staff, peers, attending gastroenterologists, referring physicians and other consultants.

### **Professionalism Objectives:**

- Learn to understand and demonstrate professional behavior in daily activities.
- Participate in professionalism-based learning activities through conferences.
- Learn to interact collegially with his/her peer group and other healthcare professionals.
- Learn to practice ethical principles with relation to patient care and confidentiality.
- Learn to practice appropriate interactions with pharmaceutical representatives and be unbiased in prescribing habits.
- Learn to be sensitive 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.
- Achieve basic understanding of healthcare systems related to gastroenterology care and overall system activities.
- Learn proper documentation and billing skills to practice cost-effective care.
- Utilize an appropriate range of healthcare professionals to care for patients, working closely with social services to maximize patient care and understanding the role of hospice, referring appropriately when needed.
- Begin involvement to understand the standard operating procedures and quality improvement initiatives within the hospital.
- Attend national gastroenterology conferences (e.g., ACG and endoscopy training courses).

## **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.
- Critique the work and orders of Year I fellows.
- Direct the Year I fellows successfully with the appropriate level of intervention for each trainee's skills.
- 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.

- 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
  - Ischemic colitis
- Present cases succinctly in a direct manner.
- Know the GI Hospital Service's patients at a management level.
- Handle consult calls respectfully and appropriately.
- Teach good symptom management skills to medical students and 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
  - Ischemic colitis
- Organize the team's performance at teaching rounds.
- Read textbook and pertinent literature materials concerning problems encountered.
- Teach medical students and 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 medical students, other trainees and Year I fellows 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 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 medical students and 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 GI Hospital Service 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 coagulopathy.
- 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
  - Ischemic colitis
- 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, 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 & lower GI bleeding
  - Peptic ulcer disease
  - Inflammatory bowel disease
  - GI infections
  - Pancreatitis
  - Ischemic colitis
- Teach medical students, other trainees and Year I & 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.

### **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 I & 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 medical students, other trainees and Year I 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.
- 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 Inpatient GI Consult Service at LBJ Hospital during all three fellowship years. **Two** fellows are assigned to the GI Hospital Service during all rotations. Teaching of medical students, 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 GI Consult Service experience will prepare the fellow to evaluate and manage acute and chronic gastrointestinal illnesses that will be encountered in the fellow's future practice. This rotation will expose the fellow to a wide variety of acute abdominal inflammatory processes, major gastrointestinal hemorrhages, and a wide variety of gastrointestinal problems.

Fellows assigned to this service will evaluate all new consults at LBJ General 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:**

Fellows see a complete mix of gastrointestinal diseases and conditions at the GI Hospital Service's teaching hospital. LBJ General Hospital has a substantial primary care basis, which provides the entire spectrum of internal medicine diagnoses and gastrointestinal care.

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 fellow will be participating in the care of a large volume of Hispanic patients. This will create a valuable exposure to certain gastrointestinal diseases that are more prevalent in this group of patients (i.e. gallstone disease, gastrointestinal infections and other

### **Patient Characteristics:**

LBJ General Hospital offers a diverse mix of socioeconomic and gender status. This Hospital provides care to a vast number of patients that are part of certain minority population of our city district. This includes Hispanics, Asians and others. This is a unique opportunity that is being given to our fellows since they can be involved in the management of certain gastrointestinal diseases that are highly prevalent in some of these minorities. An example of this would be gallstone disease and viral hepatitis.

### **Types of Clinical Encounters – Attending Supervision:**

Encounters are inpatient in nature during the GI consult Service. 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 LBJ General 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 GI Consult Service, emergency procedures (e.g. for gastrointestinal bleeding) are performed 24/7 within duty hour limits by the fellow with the attending. Non-emergent procedures are performed during daytime hours in the GI lab by the fellow under the direct supervision of the attending. Procedure based evaluation is performed twice per year by a supervising attending.

## Evaluation:

Fellows are evaluated during all GI Consult Service rotations and are expected to participate in the evaluation of other fellows as well. This occurs in the following forms:

- Detailed, automated evaluations using the GMIS system are submitted for each rotation. These evaluations are reflective of the program's curriculum requirements. Attendings evaluate fellows, and the fellows evaluate the attending as well. Evaluations include:
  - 360-degree (attending, nurse, nurse practitioner, staff/clerical, etc.);
  - Direct observation
  - 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.
- Attendings 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.

## 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](http://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 Curriculum, 1997.
- Pertinent Teaching References:
  - *Textbook of Gastroenterology* – Yamada, et.al.
  - *Gastrointestinal Disease: Pathophysiology Diagnosis Management* – Sleisenger & Fordtran.

## Competencies-at-a-Glance GI Consult Service

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

The Inpatient GI Consult I Service at LBJ Hospital is the core fellow rotation related to 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.

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