JEWISH HOSPITAL GASTROENTEROLOGY/HEPATOLOGY ROTATION

Goals of the Rotation:

- 1. Increase knowledge and skills needed for optimal care of patients with common liver problems.
- 2. Provide exposure to patients with pre-, peri- and post-transplantation care.
- 3. Exposure is also provided in a wide range of common luminal gastrointestinal problems.
 - (I) Jaundice

Causes and evaluation

(II) Approach to the evaluation of abnormal liver enzymes

Know the differences between Hepatocellular and Cholestatic patterns and how to approach the workup.

(III) Diseases of the Liver

- 1. Viral Hepatitis –A, B, C, D and E
- 2. Metabolic, Hereditary, Inflammatory and Vascular Diseases of the Liver
 - a) Alcoholic Liver Disease
 - b) Drug and toxin induced liver diseases.
 - c) Non Alcoholic fatty liver disease (Steatosis and Steatohepatitis)
 - d) Herediary Hemochromatosis
 - e) Wilson's disease
 - f) Alpha1 Atitrypsin deficiency
 - g) Primary Biliary Cirrhosis
 - h) Primary Sclerosing Cholangitis.
 - i) Autoimmune Hepatitis

3. Cirrhosis and complications of cirrhosis

Causes of cirrhosis

Complications of cirrhosis

Portal hypertensive GI bleeding

Ascites

Spontaneous Bacterial Peritonitis

Hepatorenal Syndrome

Hepatopulmonary syndrome and Portopulmonary Hypertension

- Hepatic Encephalopathy
- Hepatocellular Carcinoma
- 4. Acute Liver Failure
- 5. Liver transplant Basics

Know indications and contraindications for liver transplantation. Medical care of the patient who is s/p liver transplant

- 6. Pregnancy related liver diseases
- 7. Focal Liver lesions Hepatic tumors, Cysts and Abscesses

(IV) Diseases of the biliary tract

Gallstones

Acalculous disorders of the biliary Tract (Sphincter of Oddi Dysfunction, Gallbladder dysmotility syndromes, acute acalculous cholecystitis, HIV cholangiopathy) Neoplastic diseases of the biliary tract (GB cancer, Cholangiocarcinoma, Ampullary Cancer)

(V) Gastrointestinal Bleeding

Upper gastrointestinal bleeding Causes, evaluation and management including urgent management

Lower gastrointestinal bleeding Causes, evaluation and management including urgent management

Aspects of management of GI bleeding in cirrhotic patients

VA MC, UNIVERSITY HOSPITAL AND NORTON'S HOSPITAL GASTROENTEROLOGY/HEPATOLOGY ROTATION

Goals for Rotation:

- Expand knowledge base and management skills of common gastroenterology problems.
- The bulk of exposure in these hospitals are diseases of the luminal GI tract and endoscopy including therapeutic endoscopy.
- (I) <u>Symptoms of Gastrointestinal Disorders</u>
 - 1. <u>Acute Abdominal pain</u> Causes, differential diagnoses and evaluation
 - 2. <u>Symptoms of esophageal disorders</u>
 - a) Dysphagia
 - Causes of dysphagia –oropharyngeal and esophageal Evaluation
 - b) Odynophagia Definition and Causes
 - 3. <u>Nausea and Vomiting</u> Causes and evaluation
 - 4. <u>Diarrhea</u> Causes and evaluation

- 7. <u>GI bleeding</u> Causes, evaluation and management including urgent management

(II) Disorders of the Pancreas

- Acute pancreatitis

 Clinical features and diagnosis
 Prognostic Criteria for Acute Pancreatitis
 Management
 Complications
- 2. Pancreatic Adenocarcinoma Clinical presentation Diagnosis Treatment
- 3. Cystic Pancreatic neoplasms and evaluation Serous, Mucinous Cystadenoma Intraductal Papillary Mucinous Neoplasia
- 4. Pancreatic Neuroendocrine Tumors

(III) Disorders of the Intestines

- 1. Diarrhea Causes, evaluation and management
- 2. Malabsorption syndromes Celiac Disease Pancreatic insuffiency Short Bowel syndrome Small Intestinal Bacterial Overgrowth
- 3. Inflammatory Bowel diseases
 - Different forms of IBD- Crohn's disease, Ulcerative colitis Risk factors including genetic predisposition Clinical features Extraintestinal Manifestations Diagnosis Treatment Microscopic Colitis (Lymphocytic and Collagenous colitis)
- Dysmotility syndromes
 Ileus and Pseudoobstruction
 Dysmolity disorders in patients w Diabetes Mellitus

Chronic Intestinal Pseudoobstruction Ogilvie's Syndrome

- 5. Colonic diverticular diseases and their complications (Diverticulitis and bleeding)
- Intestinal Ischemia Acute intestinal Ischemia Chronic Intestinal Ischemia Colonic Ischemia

(IV) Gastrointestinal Bleeding

Upper gastrointestinal bleeding Causes, evaluation and management including urgent management

Lower gastrointestinal bleeding Causes, evaluation and management including urgent management

Aspects of management of GI bleeding in cirrhotic patients

Obscure GI bleeding-Overt and Covert

Causes and differentials including angioectasias and Dieulafoy's lesions Evaluation modalities Management

(V) Diseases of the biliary Tract

Gallstones

Acalculous disorders of the biliary Tract (Sphincter of Oddi Dysfunction, Gallbladder dysmotility syndromes, acute acalculous cholecystitis, HIV cholangiopathy) Neoplastic diseases of the biliary tract (GB cancer, Cholangiocarcinoma, Ampullary Cancer)

OUTPATIENT CLINICS INCLUDING PRIME CLINIC

- (I) <u>Symptoms of Gastrointestinal Disorders</u>
 - 1. <u>Chronic Abdominal Pain</u> Causes, differential diagnoses and evaluation
 - 2. Symptoms of esophageal disorders
 - c) Globus sensation- Definition and Causes
 - d) Chest pain of esophageal origin
 - e) Heartburn and regurgitation

- <u>Dyspepsia</u> Definition, causes including organic and functional causes Approach to evaluation
- 4. <u>Constipation</u> Causes and evaluation
- 5. Esophageal Disorders
 - a. GERD
 Pathophysiology
 Diagnosis
 Treatment
 Symptoms related to GERD;
 Esophageal
 Supraesophageal / Extraesophageal (LPR,Non Cardiac Chest Pain)
 - b. Barretts Esophagus
 Pathology, Screening and Surveillance guidelines
 Treatment
 Know when to refer-i.e. Finding of dysplasia
 Know that ablative therapies exist for treatment of dysplasia
 - c. Esophageal adenocarcinoma Diagnosis and Treatment
 - d. Motility disorders of the esophagus Hypertonic Motility disorders Hypotonic motility disorders Achalasia
 - e. Esophageal Miscellaneous Eosinophilic Esophagitis Pill esophagitis Infectious Esophagitis

6. Disorders of the Stomach

- a. Peptic ulcer diseases Clinical Features, Diagnosis and Complications
- b. H. pylori infection Clinical features, Diagnosis and Treatment
- c. NSAID induced disorders Mechanism of NSAID induced gastrotoxicity Treatment Prevention

- d. Gastric motility disorders including gastroparesis
- e. Complications of Gastric Surgical Procedures Complications of bariatric surgical procedures Complications of gastric resection procedures
- 7. Disorders of the Pancreas
 - a. Chronic Pancreatitis Causes, Diagnosis, management
- 8. Disorders of the Intestines
 - a. Dysmotility syndromes
 Constipation
 Dysmolity disorders in patients w Diabetes Mellitus
 - b. Irritable bowel syndrome Definition
 Evaluation
 Treatment

9. Colorectal Neoplasms

Pathophysiology including genetics Epidemiology and risk factors Hereditary colon cancer Syndromes Screening and Surveillance for colorectal neoplasia Screening Available tests Average risk patients

High risk patients

Surveillance of patients with colon polyps or cancer Colon polyps Colon cancer Appropriate use of surveillance including intervals

Clinical presentation of Colonic Neoplasia Staging of Colon Cancer

Required Reading:

- MKSAP Gastroenterology Section
- MEDSTUDY Gastroenterology Section

(vi)

GI guidelines available via an electronic link at

UofL, Gl	division	website
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http://www.louisville.edu/medschool/gimedicine/physician-resorces/division-lectures.html

AASLD Practice guidelines

http://www.aasld.org/practiceguidelines/Pages/default.aspx

AGA Medical Position Statement

http://www.gastro.org/practice/medical-position-statements

ACG Guidelines

http://www.acg.gi.org/physicians/clinicalupdates.asp#guidelines

Literature searches done to optimize patient care and supplement knowledge.

Suggested journals:

Gastroenterology, Clinical Gastroenterology and Hepatology, <u>American Journal of</u> <u>Gastroenterology</u>, <u>Digestive Diseases and Sciences</u>, <u>Gastrointestinal Endoscopy</u>, <u>Journal</u> <u>of Clinical Investigation</u>, <u>NEJM</u>, <u>Annals of Int Medicine</u>, <u>American Journal of Physiology</u>, and <u>Hepatology</u>.

Suggested Texts for Reading/Reference:

- Sleisenger, MH, Fordtran JS: Gastrointestinal and Liver Disease: Pathophysiology, Diagnosis, Management.
- Tadataka Yamada: Principles of clinical gastroenterology
- > Zakim D, Boyer TD. Hepatology: A Textbook of Liver Diseases (Vol 1 and 2).
- Schiff E, Sorrell MF, Maddrey WC (Eds):Schiff's Diseases of the Liver<u>Expectations:</u>