Fellowship in Advanced Upper GI / HPB Surgery at AdventHealth Orlando at Celebration/Orlando

Curriculum:

The distinct curriculum for this Fellowship will include the following didactic units (recommended textbook Blumgart's Surgery of the liver, biliary tree and Pancreas & Current Surgical Therapy - Cameron's 12th Edition)

Units:

1. Esophagus
   - Esophageal Function Tests
   - Gastroesophageal Reflux Disease
   - New Approaches to Gastroesophageal Reflux Disease (LINX)
   - The Management of Barrett’s Esophagus
   - The Endoscopic Treatment of Barrett’s Esophagus
   - The Management of Paraesophageal Hiatal Hernia
   - The Management of Zenker’s Diverticulum
   - The Management of Achalasia of the Esophagus
   - The Management of Disorders of Esophageal Motility
   - The Management of Esophageal Carcinoma
   - Neoadjuvant and Adjuvant Therapy of Esophageal Cancer
   - The Use of Esophageal Stents
   - The Management of Esophageal Perforation

2. Stomach
   - The Management of Benign Gastric Ulcer
   - The Management of Duodenal Ulcers
   - The Management of the Zollinger-Ellison Syndrome
   - The Management of Mallory-Weiss Syndrome
3. Liver, Biliary, and Pancreatic Anatomy and Physiology
   - Embryologic Development of the Liver, Biliary Tract, and Pancreas
   - Surgical and Radiologic Anatomy of the Liver, Biliary Tract, and Pancreas
   - Assessment of Hepatic Function: Implications for the Surgical Patient
   - Pancreatic Physiology and Functional Assessment
   - Liver Blood Flow: Physiology, Measurement, and Clinical Relevance
   - Liver Regeneration: Mechanisms and Clinical Relevance
   - Liver Fibrogenesis: Mechanisms and Clinical Relevance
   - Bile Secretion and Pathophysiology of Biliary Tract Obstruction
   - Pancreatic Cancer and Premalignant Tumors: Molecular Aspects
   - Molecular Pathogenesis of Biliary Tract Cancer
   - Molecular Biology of Liver Cardiogenesis and Hepatitis
   - Liver Immunology
   - Cytokines in Liver, Biliary, and Pancreatic Disease
   - Infections in Liver, Biliary, and Pancreatic Surgery

4. Diagnostic Techniques
   - Clinical Investigation of Hepatopancreaticobiliary Disease
   - Ultrasound of the Liver, Biliary Tract, and Pancreas
   - Endoscopic Ultrasound of the Biliary Tract and Pancreas
   - Nuclear Medicine Techniques in Hepatobiliary and Pancreatic Disease
   - Computed Tomography of the Liver, Biliary Tract, and Pancreas
   - Magnetic Resonance Imaging of the Liver, Biliary Tract, and Pancreas
   - Direct Cholangiography: Approaches, Techniques, and Current Role
   - Diagnostic Angiography in Hepatobiliary and Pancreatic Disease: Indications
   - Percutaneous Biopsy
   - Intraoperative Diagnostic Techniques

5. Preoperative and Postoperative Care
   - Intraoperative and Immediate Postoperative Management
   - Perioperative Critical Care in Hepatopancreatobiliary Patients
   - Preoperative and Postoperative Nutrition in Hepatobiliary Surgery
   - Postoperative Complications Requiring Intervention, Diagnosis, and Management
   - Quality of Life and hepatopancreatobiliary Tumors
6. Techniques of Biliary Tract Intervention: Radiologic, Endoscopic, and Surgical

7. Biliary Tract Disease
   - Gallstones and Gallbladder
   - Natural History of Gallstones and Asymptomatic Gallstones
   - Cholecystitis
   - Percutaneous Approaches to the Treatment of Gallbladder Disease
   - Technique of Cholecystectomy
   - Laparoscopic Cholecystectomy and Choledocholithotomy
   - Stones in the Bile Duct: Clinical Features and Open Surgical Approaches and Techniques
   - Stones in the Bile Duct: Endoscopic and Percutaneous Approaches
   - Cholecystolithiasis and Stones in the Common Bile Duct: Which Approach and When?
   - Postcholecystectomy Problems
   - Intrahepatic Stones
   - Primary Sclerosing Cholangitis
   - Benign Biliary Strictures
   - Biliary Fistulae
   - Cystic Disease of the Biliary Tree
   - Tumors of the Biliary Tree
   - Cancer of the Gallbladder
   - Cancer of the Bile Ducts: Intrahepatic Cholangiocarcinoma
   - Cancer of the Bile Ducts: Extrahepatic Biliary Tumors
   - Cancer of the Bile Ducts: Perihilar Cholangiocarcinoma with Emphasis on Presurgical Management
   - Cancer of the Bile Ducts: Interventional
   - Techniques in Hilar and Intrahepatic Biliary Structures

8. Pancreatic Disease
   - Congenital Disorders of the Pancreas: Surgical Considerations
   - Definition and Classification of Pancreatitits
   - Etiology, Pathogenesis, and Diagnostic Assessment of Acute Pancreatitits
   - Management of Acute Pancreatitits and Complications
   - Chronic Pancreatitits: Etiology, Pathogenesis, and Diagnosis
   - Management of Chronic Pancreatitits: Conservative, Endoscopic, and Surgical
   - Pancreatic and Periampullary Tumors: Classification and Pathologic Features
Cystic Neoplasms of the Pancreas: Epidemiology, Clinical Features, Assessment, and Management

Epidemiology of Pancreatic Cancer

Pancreatic Cancer: Clinical Aspects, Assessment, and Management

Pancreatic Cancer: Duodenal Adenocarcinomas

The Pancreas as a Site of Metastatic Cancer

Endocrine Tumors of the Pancreas: Clinical Picture, Diagnosis, and Therapy

Resectional Techniques: Pancreatectoduodenectomy, Distal Pancreatectomy, Segmental Pancreatectomy, Total Pancreatectomy, and Transduodenal Resection of the Papilla of Vater

Surgery of the Pancreas: Minimally Invasive Approaches

Chemotherapy and Radiotherapy for Pancreatic and Periampullary Cancer: Adjuvant, Neoadjuvant, and Palliative

Palliation of Pancreatic and Periampullary Tumors

9. Hepatic Disease

Chronic Hepatitis: Epidemiology, Clinical Features, and Management

Hepatic Steatosis, Steatohepatitis, and Chemotherapy-Related Liver Injury

Pyogenic Liver Abscess

Simple Cysts and Polycystic Liver Disease: Surgical and Nonsurgical Management

Cirrhosis and Portal Hypertension: Pathologic Aspects

Tumors of the Liver: Pathologic Aspects

Benign Liver Lesions

Hepatocellular Carcinoma

Metastatic Malignant Liver Tumors: Colorectal Cancer

Metastatic Malignant Liver Tumors: Neuroendocrine

Noncolorectal Nonneuroendocrine Metastases

Hepatic Tumors in Childhood

Hepatic Artery Embolization and Chemoembolization for Liver Tumors

Radioembolization for Liver Tumors

Radiofrequency Ablation for Liver Tumors

Microwave Ablation and Emerging Technologies for Liver Tumors

Regional Chemotherapy for Liver Tumors

Systemic Chemotherapy for Hepatic Colorectal Cancer: Impact on Surgical Management

Hepatic Resection: General Considerations

Hepatic Resection for Benign Disease and for Liver and Biliary Tumors

Adjuncts to Hepatic Resection: Ultrasound and Emerging Guidance Systems