



# AdventHealth

## Orlando

### **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 12 th 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

- The Management of Gastric Adenocarcinoma
- The Management of Gastrointestinal Stromal Tumors
- The Management of Morbid Obesity

### 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 Carcinogenesis 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 Pancreatitis
- Etiology, Pathogenesis, and Diagnostic Assessment of Acute Pancreatitis
- Management of Acute Pancreatitis and Complications
- Chronic Pancreatitis: Etiology, Pathogenesis, and Diagnosis
- Management of Chronic Pancreatitis: 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: Pancreaticoduodenectomy, 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