



INTERVENTIONAL ENDOSCOPY & PANCREAS CENTER

We provide cutting-edge technology combined with a comprehensive approach to patient care. Located at the Smilow Cancer Hospital of Yale-New Haven Hospital, we perform advanced endoscopic procedures to diagnose and treat gastrointestinal diseases, including many precancerous and cancerous conditions.



Our Expert Physicians

Harry Aslanian, MD

*Associate Professor of Medicine
Director, Advanced Endoscopy
Fellowship
Yale University School of Medicine*

Dr. Harry Aslanian is a leading authority on gastrointestinal oncology and endoscopic ultrasound (EUS). He is recognized as an expert in the endoscopic diagnosis and treatment of pancreas disease including pancreas cysts, acute and chronic pancreatitis and pancreas mass lesions. He has numerous publications regarding pancreas and biliary disease and advanced endoscopy. He is Director of Yale's Advanced Endoscopy Fellowship. He has expertise in advanced endoscopic imaging including narrow band imaging and confocal microscopy and utilizes these techniques to guide endoscopic resection of early cancers. He has expertise in the treatment of Barrett's esophagus, including radiofrequency ablation and endoscopic mucosal resection for Barrett's and large colon polyps. Dr. Aslanian graduated from Brown University with a degree in medicine and completed his internal medicine residency at The Mayo Clinic in Rochester, MN. He completed his gastroenterology and advanced endoscopy fellowships at Yale University School of Medicine. He has been a faculty member since 2003.

Priya Jamidar, MD

*Professor of Medicine
Director of Endoscopy
Yale University School of Medicine*

Dr. Jamidar is internationally renowned for his expertise in Endoscopic Retrograde Cholangiopancreatography (ERCP). His work focuses on detecting cancers of the bile duct and treating malignant and benign conditions of the pancreas and biliary system. He has expertise in using confocal endomicroscopy—an advanced instrument that can pinpoint cancerous and precancerous cells. His clinical and research interests include endoscopic management of chronic pancreatitis including pancreatic duct stones, stricture, pancreas divisum, cholangioscopy and lithotripsy for bile duct stones as well as ERCP with Sphincter of Oddi manometry. Dr. Jamidar completed his gastroenterology Fellowship at the University of Southern California and Advanced ERCP training at University of Indiana Medical Center. Prior to coming to Yale in 2002, he was the director of Pancreatico-Biliary Endoscopy at UCLA and Chief of Gastroenterology and the Pancreatico-Biliary institute at the Good Samaritan hospital in Los Angeles, one of the busiest tertiary referral centers for ERCP in the Western United States.

James Farrell, MD

*Associate Professor of Medicine
Director Center for Pancreas Disease
Yale University School of Medicine*

Dr. James Farrell is an internationally recognized expert in pancreatic disease and interventional endoscopy. In addition to his clinical work on endoscopic evaluation of autoimmune pancreatitis, pancreatic cysts, and endoscopic ultrasound delivery of gene therapy for pancreatic cancer, he is also known for his development of personalized therapy approaches for pancreatic cancer and early detection biomarkers for pancreatic cancer. Dr. Farrell received his medical degree from University College Dublin. He completed internal medicine training at Johns Hopkins Hospital and Gastroenterology Fellowship at Massachusetts General Hospital and Harvard Medical School. He pursued advanced therapeutic endoscopic fellowship training at the Massachusetts General Hospital and the Brigham and Women's Hospital. After fellowship, he developed the largest endoscopic ultrasound program in California and became a founding member of the UCLA Center for Pancreatic Diseases. In 2013, he was recruited to lead the Yale Center for Pancreas Disease.



Prepared for the Greatest Challenges

Merging patient centered care with experience and technology to make headway in healthcare.

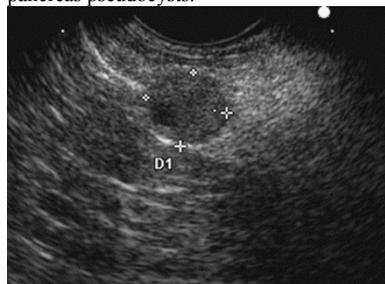
Our team diagnoses and treats complex gastrointestinal disorders- from esophageal to pancreatic cancers, large colon polyps, pancreatic and bile duct stones, pancreatitis and Barrett's esophagus. We provide skilled evaluation for the diagnosis and staging of cancer in order to initiate appropriate and timely surgical and oncological care. We work closely with a multi-disciplinary team of surgeons, oncologists, radiologists and pathologists.

Yale Center for Pancreatic Disease

In addition to managing patients with complex benign and malignant pancreatic diseases, including acute pancreatitis, chronic pancreatitis and pancreatic cancer, the Pancreas Center emphasizes the multidisciplinary management of patients with pancreatic cysts and those at high risk for developing pancreatic cancer (Familial Pancreatic Cancer, Genetic Syndromes). Physicians are encouraged to present their complex pancreas patients at the Center's weekly Pancreas Imaging Multidisciplinary Conference (Monday, 12 noon).

Endoscopic Ultrasound (EUS)

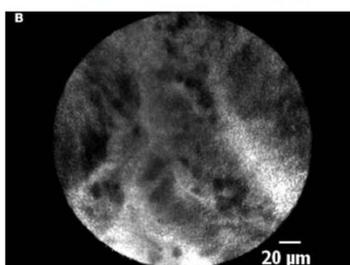
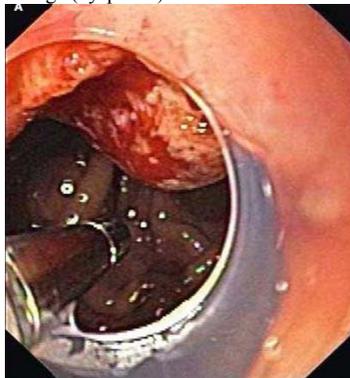
Most commonly used to diagnose and stage cancers, EUS is very effective at visualizing the layers of the gastrointestinal tract- aiding in the detection of precancerous lesions and early-stage cancerous lesions of the esophagus, stomach and rectum. EUS can be used to detect tumors present in other organs such as the pancreas, bile duct, and liver and can help determine if cancer has spread to lymph nodes. EUS can evaluate conditions such as gallstones, pancreatitis and pancreas cysts. EUS guided fine needle aspiration is the most accurate way to biopsy pancreatic lesions. Our expert cytopathologists provide immediate on-site review of samples. We have expertise in EUS guided celiac plexus neurolysis for pain related to pancreas cancer and drainage of pancreas pseudocysts.



EUS image fine needle aspiration (FNA) of pancreas cyst

Endoscopic Mucosal Resection (EMR)

EMR is used to treat early cancers and precancerous lesions of the esophagus, stomach, colon and duodenum. EMR can sometimes provide an effective alternative to surgery. Compared with surgery, recovery after EMR is quicker and has a lower risk for complications. For patients with **Barrett's esophagus**, a condition that can progress to esophageal cancer, EMR can remove areas of precancerous tissue without the need for complete removal of the esophagus. We treat Barrett's as a multidisciplinary team and have expertise with radiofrequency ablation to treat flat areas of Barrett's with precancerous change (dysplasia).



(A) In vivo endoscopic image of esophageal adenocarcinoma (B) pCLE image of same tissue

Probe-Based Confocal Laser Endomicroscopy (pCLE)

We are the only hospital in the region offering probe-based confocal laser endomicroscopy, a technique for early detection of cancerous and precancerous conditions. Without removing tissue from the patient's body, we are able to pinpoint cancerous and noncancerous cells. If detected, suspicious tissue can be removed

immediately during endoscopic procedure, or, patients can be sent directly to surgery.

Endoscopic Retrograde Cholangiopancreatography (ERCP)

An ERCP uses an endoscope and X-rays to help physicians visualize tumors, blockages and stones of the pancreas and bile ducts. During the ERCP, the physician can insert special instruments into the bile and pancreas duct in order to take tissue samples, remove or crush gallstones, drain cysts, place stents to widen and open narrowed ducts



Cholangioscopy and Pancreatocopy:

Specialized miniaturized endoscopes allow our physicians to see inside the small ducts of the biliary and pancreatic systems. Biopsies and confocal microscopic examinations can be performed through these miniaturized endoscopes and cancers of the bile and pancreatic ducts. Therapeutic maneuvers such as electrohydraulic and laser lithotripsy (fragmentation) of bile sand pancreatic ducts are highly effective and often performed via these mini-endoscopes.



Spyscope in a patient with cholangiocarcinoma

Our team offers a full range of advanced interventional endoscopy procedures:

- ❖ Endoscopic Ultrasound (EUS)
- ❖ Fine Needle Aspiration (FNA)
- ❖ Celiac Plexus Nerve Block
- ❖ Endoscopic Retrograde Cholangiopancreatography (ERCP)
- ❖ Cholangioscopy and pancreatreatoscopy
- ❖ ERCP with Sphincter of Oddi manometry
- ❖ Radio Frequency Ablation of cholangiocarcinoma
- ❖ Lithotripsy of large biliary and pancreatic duct stones
- ❖ Ampullectomy
- ❖ Endoscopic Mucosal Resection (EMR)
- ❖ Complex polypectomy
- ❖ Radiofrequency Ablation of Barrett's esophagus
- ❖ Confocal Endomicroscopy
- ❖ Pancreatic pseudocyst drainage and necrosectomy
- ❖ Palliative stenting of the GI tract and pancreaticobiliary malignancies

Selected Publications

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Nagar A., **Aslanian, H.R.**, Gorelick F.S., **Jamidar P.A**, Diseases of the Pancreas. In: Chang EB, Kuemmerle JF, eds. *DDSEP Version 6.0: A Core Curriculum and Self-Assessment in Gastroenterology and Hepatology.* 6 ed. 2010.

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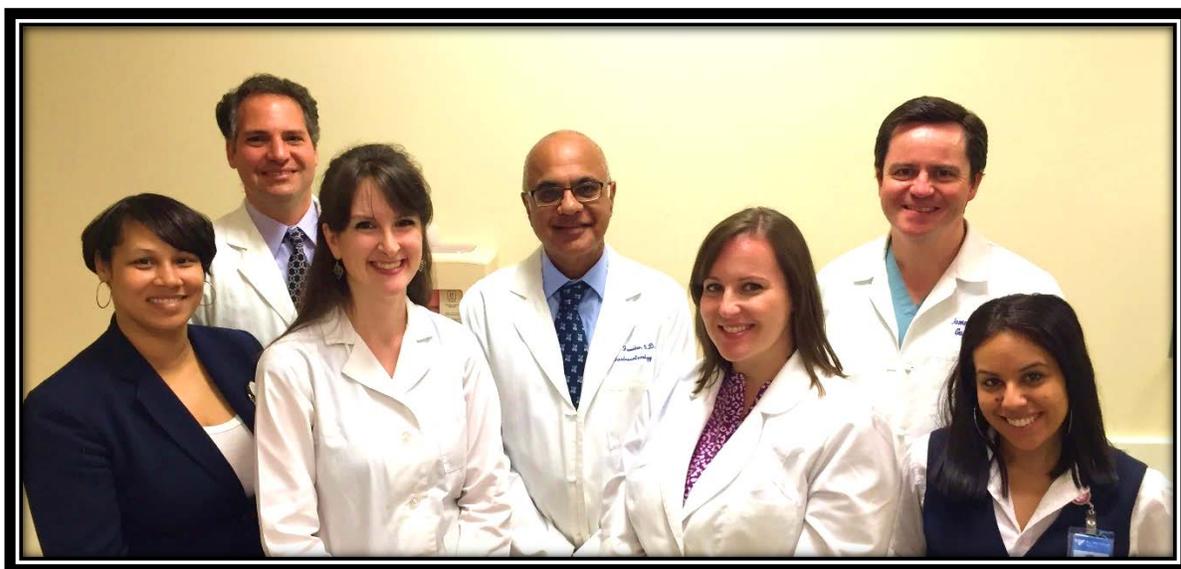
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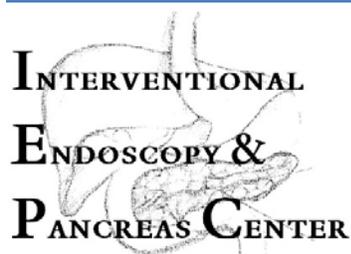
Join Us

We offer multiple learning and CME activities(cme.yale.edu) including:

- ❖ Fall Therapeutic EUS/ERCP Workshop
- ❖ Spring Hands On EUS/ERCP Workshop
- ❖ The Course- Yale vs Harvard Spring Endoscopy Course (Bermuda)
- ❖ DDW review (Water's Edge Conference Center) in May/June



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