



Section of Hepatopancreatobiliary (HPB) Surgery

Faculty

Dr. Donald McCain MD, PhD, FACS (Section chief of Surgical Oncology), Dr. Vikram Wadhera (Transplant Surgery), Dr. Marson Davidson (Surgical Oncology), Megan Devlin (Senior Nurse Practitioner).

Program Objectives

1. To provide clinical evaluation of HPB tumors and diseases *within a multidisciplinary team* including gastroenterology, medical and radiation oncology, and interventional radiology.
2. To teach the fellow the breadth of operative techniques within HPB surgery to surgical residents, specifically including:
 - a. pancreatic neoplasms
 - b. liver tumors, including primary and metastatic disease
 - c. chronic pancreatitis (e.g., pancreaticojejunostomy)
 - d. complications of acute pancreatitis, including necrosectomy (minimally invasive and open) and cystenterostomy
 - e. complex biliary surgery, including complications of stone disease and biliary reconstruction after bile duct injury
3. To give special emphasis to minimally invasive HPB surgery, including laparoscopic liver surgery, laparoscopic left pancreatectomy and enucleation, and minimally invasive surgery for pancreatitis (laparoscopic transgastric cystgastrostomy and necrosectomy and minimally invasive retroperitoneal pancreatectomy (MIRP))
4. To provide the members of the division to serve in a teaching role in the OR and on the inpatient services and contribute to the education of our general surgery residents and medical students.
5. Departmental support for scholarly activities.

To help achieve these objectives, the fellow is expected to participate in the following educational activities (as permitted by fellow's rotation schedule):



1. Monthly HUMC HPB/Surg Onc pre-operative case conference
2. Monthly HUMC Liver Tumor Board
3. Monthly HUMC General Surgery Morbidity and Mortality conference
4. Monthly pancreatic disease multidisciplinary conference (conference with GI pancreatologists and interventional endoscopists to discuss challenging clinical cases)

Goals

The goal of the HPB division is to provide the experience necessary to provide comprehensive, state-of-the-art medical and surgical care to patients with surgical diseases/disorders of the liver, pancreas, biliary tract and duodenum. This will include the ability to investigate, diagnose, recommend appropriate treatment options, perform operative procedures, and provide the pre- peri- and late postoperative care.

The primary goals for the fellow can be broken down as follows:

- Master the perioperative assessment and risk stratification of patients requiring major surgery
- Gain additional experience in the day-to-day management of very complex inpatients after major abdominal surgery as the primary decision maker for routine inpatient care
- Gain additional understanding in the principles of preoperative HPB cancer evaluation and staging
- Gain experience with the multi-modality treatment of HPB cancer and the role of surgery in the context of other anti-cancer therapies
- Refine surgical skills, performing complex UGI and HPB operations via both the open and laparoscopic approaches—these cases routinely include Whipple pancreaticoduodenectomy, liver resections, biliary reconstructions, laparoscopic distal pancreatectomy, etc.

Guidelines for HPB Section:

Minimum Qualifications for Surgeons to operate under HPB Section umbrella:

1. American Board of Surgery Certification
2. Fellowship of American College of Surgeons preferred



3. AHPBA certified HPB Fellowship training/ SSO certified Complex General Surgical Oncology Fellowship training/ ASTS certified Multi Organ Transplant Fellowship training, including Liver transplantation, Pancreas transplantation, Hepato-Biliary and Pancreatic surgical training, and deceased/living donor organ recovery experience
4. Experience in inpatient and outpatient management, including preoperative evaluation, assessment, and counseling; perioperative inpatient care; postoperative outpatient follow up
5. Experience in Minimally Invasive HPB procedures
6. Experience in hepatic hilar dissection, hepatic tumor ablation, and preferable experience in vascular reconstruction

Cases to be performed by HPB section surgeons:

LIVER:

1. Hemi-hepatectomy
2. Trisectionectomy
3. Central hepatectomy
4. Right posterior/right anterior sectionectomy
5. In situ donor hemi-hepatectomy
6. Segmental resections
7. Partial/ non-anatomic resections
8. Unroofing large/multiple hepatic cysts
9. Hepatic tumor ablations, example microwave diathermy, etc.
10. Intraoperative liver ultrasound guided procedures

PANCREAS:

1. Pancreaticoduodenectomy
2. Pancreatic resections
3. Pancreatic tumor enucleations
4. Pancreatic-enteric anastomoses
5. Pancreatic drainage procedures
6. Pancreatic debridement/ necrosectomy

BILIARY TRACT:

1. Ampullary/ bile duct resection
2. Biliary anastomoses (intra-/extra- hepatic)
3. Radical cholecystectomy
4. CBD exploration



Hackensack
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Division of Surgical Oncology

Research Component/Clinical Procedural and Patient Care Responsibilities

The division members will participate in the clinical research of the HPB Section. Surgical residents are encouraged to collaborate and submit papers for publication or surgical societies.