



### Appointments

To schedule an appointment with a specialist at the Johns Hopkins Medicine Liver Tumor Center, call 1-877-LIVER99 (1-877-548-3799). Suzanne Smallwood-Massey, our program coordinator, will facilitate appointments with the appropriate members of our team. Patients can be seen by one of our providers within one week of calling the Liver Tumor Center.

Patients should bring recent X-rays, CT scans and PET scans as either a "hard copy" or on CD. Alternatively, the referring physician's office may forward them prior to the appointment.



Liver Tumor Center  
1-877-LIVER99 (1-877-548-3799)  
[www.hopkinsmedicine.org/livertumorcenter](http://www.hopkinsmedicine.org/livertumorcenter)



KIMMEL CANCER CENTER

# liver tumor center at Johns Hopkins

Multiple specialists in every discipline: Specialized surgery and advanced treatment for liver tumors and other cancers that have metastasized to the liver

The Johns Hopkins Medicine Liver Tumor Center provides one-stop, multidisciplinary care for patients with liver, bile duct and gallbladder cancers, as well as colon and neuroendocrine/carcinoid tumors that have spread to the liver.

As part of Maryland's first NCI-designated comprehensive cancer center, our expert team includes surgeons, oncologists, hepatologists, gastroenterologists, interventional radiologists and transplant specialists. Your patients not only receive outstanding care from their individual physician but benefit from the consensus opinion, clinical support and resources of our entire multidisciplinary team. Patients referred to us will be seen within one week.

At the Johns Hopkins Medicine Liver Tumor Center, we choose among a range of advances to treat liver masses—both benign and malignant—as well as bile duct cancer, gallbladder cancer and liver-related diseases. Thanks to the combination of better chemotherapy and path-breaking imaging and surgical techniques, such as portal vein embolization, survival rates for patients with metastatic colorectal cancer to the liver have doubled over the last 10 to 15 years.

### Our treatment team includes:

- surgeons and liver transplant specialists
- medical and radiation oncologists
- hepatologists and liver transplant medical specialists
- gastroenterologists and interventional gastroenterologists
- diagnostic and interventional radiologists
- pathologists

Please visit [www.hopkinsmedicine.org/livertumorcenter](http://www.hopkinsmedicine.org/livertumorcenter) for a complete listing of our specialists.



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## Making the Determination for Resection

We assess each patient to decide whether we can remove the entire tumor or all of the disease while leaving enough liver behind.

Our team often finds that patients who have been told their tumors are inoperable are actually good candidates for surgery once other therapies are employed. These patients can be treated with excellent results.

## Innovative Surgical Techniques

The combination of surgery and radiofrequency or microwave ablation to remove and destroy liver masses is one of the many innovative surgical techniques that have been widely adopted at Johns Hopkins.

For some patients previously deemed unresectable because they have tumors on both sides of the liver, we remove the lesions in two separate operations. By doing a “staged” liver resection approach, the liver has time to regenerate between operation which allows us to resect the remaining cancer in the second operation.

Also for patients with large liver tumors, a technique called portal vein embolization can grow the healthy parts of the liver prior to a surgical resection. Patients who previously were not candidates for surgery, due to the small amount of liver that would be left behind, can now undergo surgery and have successful and safe removal of their tumor(s).

For some patients, our team can offer minimally invasive laparoscopic liver surgery. With the use of image-guided techniques, liver resection or tumor ablation can be performed, reducing discomfort and allowing for earlier return to normal function.

## Ongoing Research

Clinical trials research is another benefit to your patients. Our specialists are conducting research in the areas of: cancer vaccines, tumor biomarker studies for cancer detection, image-guided and robotic liver surgery, novel intrarterial therapies, among others.

## Meet Our Surgery Team

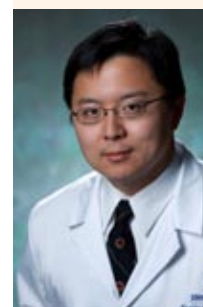
### Timothy M. Pawlik, M.D., M.P.H.



*Associate Professor of Surgery and Oncology  
Hepatobiliary Surgery Program Director  
Co-director Center for Surgery Trials and Outcomes Research  
Director, Liver Tumor Center*

Dr. Pawlik specializes in diseases of the alimentary tract, liver, pancreas and bile ducts. He received his undergraduate degree from Georgetown University and his medical degree from Tufts University School of Medicine. He completed his surgical training at the University of Michigan Hospital and spent two years at the Massachusetts General Hospital as a surgical oncology research fellow. He continued advanced training in surgical oncology at The University of Texas M. D. Anderson Cancer Center in Houston. His research interests include clinical trials in hepatobiliary malignancies, as well as outcomes research following hepatobiliary surgery.

### Kenzo Hirose, M.D.



*Assistant Professor of Surgery and Oncology  
Department of Surgery, Division of Surgical Oncology*

Dr. Hirose specializes in hepatopancreatobiliary surgery for benign and malignant conditions of the liver, bile duct and pancreas, as well as minimally invasive surgical techniques. He received his medical degree from Harvard Medical School and completed his residency at the University of California at San Francisco, followed by fellowships in liver transplantation and hepatopancreatobiliary surgery at the Cleveland Clinic.

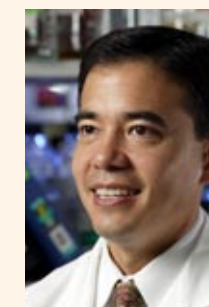
### Michael A. Choti, M.D., M.B.A., F.A.C.S.



*Professor of Surgery, Oncology and Engineering  
Jacob C. Handelsman Professor of Abdominal Surgery  
Vice Chair, Department of Surgery, Division of Surgical Oncology*

Dr. Choti specializes in hepatobiliary, pancreatic, colorectal and gastrointestinal malignancies. A graduate of Yale University School of Medicine, he completed his surgical training at the Hospital of the University of Pennsylvania and continued advanced training in surgical oncology at Memorial Sloan-Kettering Cancer Center in New York. He is the principal or co-investigator for a variety of clinical and preclinical studies examining new approaches for the treatment of liver, pancreatic and colorectal cancer. His research interests include molecular genetics and biomarkers in gastrointestinal cancer and surgical treatment of cancer using robotics and minimally invasive image-guided approaches.

### Richard D. Schulick, M.D., F.A.C.S.



*Professor of Surgery and Oncology  
John L. Cameron Professor of Surgery  
Chief, Division of Surgical Oncology  
Director, Hepatopancreatobiliary Surgery Fellowship Program*

Dr. Schulick specializes in cancers and tumors of the liver, bile ducts, gallbladder and pancreas. He graduated from medical school, completed his residency in general surgery and completed a fellowship in advanced gastrointestinal surgery all at Johns Hopkins. He has also completed advanced fellowships in immunology and pharmacology at the National Cancer Institute in Bethesda, Maryland, as well as surgical oncology at Memorial Sloan-Kettering Cancer Center in New York City. As chief of the Division of Surgical Oncology, he oversees the hepatobiliary (liver and bile ducts) and pancreatic surgery programs.