

**Stanford University General Surgery Residency Program  
Hepatopancreatobiliary Surgery (HPB) Goals and Objectives for residents: R-5  
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**Description**

The Hepatopancreatobiliary Surgery (HPB) rotation at Stanford Hospital offers an intensive experience in the care of hepatobiliary and pancreatic diseases. The Surgical Oncology 1, Surgical Oncology 2, and HPB rotations are intended to be additive and complementary, giving the Chief Residents in-depth clinical and operative experience in upper GI, surgical oncology, and HPB diseases.

**Goals**

The goal of the HPB rotation is to provide the R-5 house-staff the means to: Gain the knowledge and experience in the inpatient and outpatient evaluation and management of patients with complex HPB and surgical oncology diseases.

The primary goals for the R5 resident:

- 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 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.

**Objectives**

The HPB R5 rotation has the following objectives:

- The R5 resident has primary responsibility for the management of all inpatients on the service both ICU and ward in conjunction with the attending.
- The R5 resident functions as a main decision maker, assuming direct responsibility for the day-to-day care of patients on the service and coordinating care with other services. The attending surgeons are readily available for questions and to help as necessary with decision-making. The Chief Resident also serves as the first consultant for the intern regarding issues related to floor and ICU patients. He or she will

develop leadership skills in the management and guidance of inpatient surgical teams and supervision and education of all residents and students.

- The R5 resident gains knowledge of encompassing HPB surgery through discussion on rounds with the attending physician and also by independent reading. This knowledge base includes basic complex open and laparoscopic procedures as listed above.
- The R5 resident is responsible for planning the joint SO 1/ SO 2 / HPB case conference (alternating between the Chief Residents on SO 1 and SO 2). This responsibility includes choosing cases and helping the students and junior residents prepare for the conference. Most importantly, the Chief resident is expected to discuss the planned operative management in the context of the relevant literature.
- The R5 resident gains these advanced operative skills through pre-operative reading and preparation and by direct intra-operative teaching from the attendings.

The R5 resident and the attendings will function together very closely in the OR, at the bedside and during formal and informal daily rounding sessions. The R5 resident is a leader on the team, and should be able to run the entire service with the intern, nurses, and medical students. Within the scope of more common Surg Onc/HPB diseases, by the end of the year the R5 resident should understand the preoperative evaluation, perform the operative procedure, and manage the patient postoperatively, identifying and managing complications that may arise. The SO 1, SO2, and HPB services are intended to be complimentary and additive in achieving this goal.

R5 residents are evaluated in the 6 core competencies (Medical knowledge, Patient care, Interpersonal communication skills, Professionalism, Practiced based learning and Systems based practice) using specific web-based evaluation forms. An outline of core competencies with rotation objectives, instructional activities, and evaluations is below.

**Specific Goals and Objectives for R5 Residents**

GOALS Core Competencies	R-5 OBJECTIVES	INSTRUCTIONAL ACTIVITIES	EVALUATION
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<p><b>Knowledge:</b> To acquire and apply knowledge of established and evolving basic and applied clinical sciences that relate to the practice of bariatric surgery and advanced minimally invasive surgery and the other areas already listed.</p>	<ul style="list-style-type: none"> <li>• Gain experience in physical examination, diagnostic imaging studies, pre-operative evaluation and risk assessment, peri-procedural management of deep venous thrombosis anticoagulation, and post-operative patient monitoring.</li> <li>• Be introduced to ultrasound imaging of gallbladder, GI fluoroscopy, as well as CT and MR imaging of the abdomen and pelvis.</li> </ul>	<ul style="list-style-type: none"> <li>• Teaching by attending faculty.</li> <li>• Independent reading</li> <li>• Daily rounds and conferences including Morbidity and Mortality, Grand Rounds and Core Course, GI Conference, and GI Clinical Conference.</li> </ul>	<p>Weekly feedback by fellows/chief resident/attending and Rotation evaluation by the HPB attending.</p> <p><a href="https://stanford.medhub.com">https://stanford.medhub.com</a></p>
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<p><b>Patient Care:</b> To provide compassionate, appropriate and effective care patients in the listed categories.</p>	<ul style="list-style-type: none"> <li>Evaluate, triage, staff and manage all inpatient HPB surgery consultations at SUMC.</li> <li>Evaluate and correct complete directed history and physical examinations on these patients. Review all accompanying clinical and image-based information regarding their patients, and develop an independent management plan appropriate for each patient.</li> <li>Manage patients intra-operatively with the Attending Surgeon.</li> </ul>	<p>Runs twice daily rounds with the attending once daily on the HPB Team.</p> <p>Preoperative and post-operative monitoring of other residents and student work and notes.</p> <p>Teaching during rounds and conferences. Providing feedback to the others on the HPB Team.</p>	<p>Ongoing feedback by attendings</p> <p>Formal rotation evaluation by attending physicians (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>
<p><b>Effective Interpersonal and Communication skills:</b> Residents must communicate in a way that leads to effective information exchange of a HPB surgery care plan to patients, their families, and professional associates.</p>	<ul style="list-style-type: none"> <li>Instruct interns and medical students on basic general surgical techniques in the surgical simulation center.</li> <li>Deliver teaching sessions for interns and students either before or after rounds on a weekly basis.</li> <li>Provide family members an update of patient's condition.</li> <li>Discusses appropriate peri-operative concerns with team &amp; consultants.</li> <li>Works effectively with team members (attending, interns and NP) to communicate care plan and discuss with attendings.</li> </ul>	<p>Twice daily rounds with the HPB Team.</p>	<p>Ongoing feedback by attendings</p> <p>Formal rotation evaluation by attending physicians (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>

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<p><b>Practice based learning and improvement:</b> In order to improve patient care practices, R-5 residents must be able to critically evaluate their own performance as well as appraise and incorporate clinical scientific evidence.</p>	<ul style="list-style-type: none"> <li>• Serve as team leader as the PGY-5. Works effectively with team inpatient census, reporting requirements, team schedules, vacation coverage, daily clinical assignment, patient management tasks and morbidity and mortality conference.</li> <li>• Master and teach all general surgery scenarios on the Goodman Simulator.</li> <li>• Identify complications and determine their impact on recovery. Present them at the M&amp;M conference.</li> <li>• Use information technology to rapidly assimilate current medical literature as it relates to patient care.</li> </ul>	<p>Twice daily rounds with the HPB Team and attending surgeon.</p> <p>Daily Conferences.</p>	<p>Ongoing feedback by attendings</p> <p>Formal rotation evaluation by attending physicians (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>
<p><b>Professionalism:</b> Residents must show a commitment to professional responsibilities, adherence to ethical principles and sensitivity to diversity.</p>	<ul style="list-style-type: none"> <li>• Learn to manage complex patient problems specifically related to relaying information to families regarding unexpected outcomes in a quaternary care hospital.</li> <li>• Learn to interact with a wide range of patient age ranges.</li> <li>• Learn to interact with multiple subspecialty groups in consultation as well as multi-disciplinary conferences.</li> <li>• Displays appropriate demeanor, even in adverse situations.</li> </ul> <p>Acts with sensitivity and responsiveness to patient's culture, age, gender and disabilities.</p>	<p>Twice daily rounds with the HPB Team.</p>	<p>Ongoing feedback by attendings</p> <p>Formal rotation evaluation by attending physicians (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>

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<p><b>Systems-based Practice:</b> An R5 resident must be able to demonstrate an awareness of and responsiveness to the system of health care and the ability to effectively call on system resources to provide optimal care.</p>	<ul style="list-style-type: none"> <li>Act as an organization problem solver for HPB surgery patients. Understand how care for patients affects the hospital's ability to deliver patient care.</li> <li>Understands how care practice affects staffing and health care costs.</li> </ul>	<p>Twice daily rounds with the HPB Team and daily rounds with surgery attendings.</p>	<p>Ongoing feedback by attendings</p> <p>Formal rotation evaluation by attending physicians (<a href="https://stanford.medhub.com">https://stanford.medhub.com</a>)</p>