

**The Stanford Program for Pediatric Surgery Residency**  
**Outline of Educational Activities, Assessment Tools, and Performance Metrics**

The educational activities in this document are outlined into three tables. Each table indicates (with a check mark) the ACGME core competencies addressed by each activity. Each table is followed by a description of the educational activities it contains. The time allotted for each activity is noted *per session*.

Table I. Rotation specific learning activities.

Table II. Non-rotation specific didactic sessions.

Table III. Learning portfolio (describes the components of a learning portfolio that the resident must document by the end of the fellowship).

**TABLE 1. ROTATION SPECIFIC LEARNING ACTIVITIES.**

<b>ROTATION</b>	<b>LEARNING ACTIVITIES</b>	<b>MEDICAL KNOWLEDGE</b>	<b>PATIENT CARE</b>	<b>COMMUNICATION AND INTERPERS. SKILLS</b>	<b>PROFESSIO-NALISM</b>	<b>SYSTEMS-BASED PRACTICE</b>	<b>PRACTICE-BASED LEARNING &amp; IMPROVEMENT</b>
NICU	Literature Review Presentation - Topic of Choice	√	√				√
	ECMO Course	√	√				
	Perinatal Conference	√				√	
	Neonatal Resuscitation Simulation (CAPE)	√	√	√		√	
	Counseling Simulation			√	√		
SURGERY	Journal Club	√	√				√
	Quality Improvement Rounds	√	√		√	√	√
	Radiology/GI/Pathology Rounds	√	√	√		√	√
	Pediatrics and Surgery Grand Rounds Presentation	√		√			√
	Medical Student Lectures			√			√
	Pediatric Surgery Clinic	√	√	√	√	√	
	Tumor Board	√	√			√	
	Bariatric Board	√	√			√	
	Core Curriculum Course	√	√	√			√

### **Neonatal Intensive Care Unit Rotation (NICU) —*Targeted to Resident in Pediatric Surgery Only***

#### **Literature Review Presentation (30 minutes)**

The resident will identify a clinical topic of interest relevant to the intensive care of the neonate, and perform a literature review that culminates in a 30 minute case-based presentation at one of the perinatal clinical conferences.

#### **ECMO Course/ECMO Simulation (1 full day)**

The resident will be required to attend a course on extracorporeal membrane oxygenation that will be funded by the division.

#### **Perinatal Conference (60 minutes)**

The resident will be required to attend all (every Friday of the rotation, 4 total) scheduled perinatal clinical conferences.

#### **Neonatal Resuscitation Simulation (1 half day)**

The resident will be required to attend a half day simulation course on neonatal resuscitation conducted by the Center for Advanced Pediatric Education (CAPE) at Stanford.

#### **Counsel Simulation (1 half day)**

Simulation-based training in holding difficult conversations with parents/patients conducted by the Center for Advanced Pediatric Education (CAPE) at Stanford.

### **Pediatric Surgery Rotation**

#### ***1. Activities Targeted to Pediatric Surgery Resident Only:***

#### **Quality Improvement Rounds (60 minutes)**

The resident will present cases at the monthly pediatric surgery quality improvement (morbidity and mortality) rounds and review relevant issues. The resident is responsible for completing and presenting a practice-based improvement log for each morbidity/mortality case discussed.

#### **Medical Student Lectures (60 minutes)**

The resident will give the regularly scheduled (6 times per year) lecture on pediatric surgery to the Stanford medical students.

**Core Curriculum Course (30-60 minutes)**

The resident will give a weekly presentation, covering the topics in the 2 year pediatric surgery residency curriculum.

***2. Activities Targeted to Both Pediatric Surgery Resident and Rotating General Surgery Residents:*****Journal Club (60 minutes)**

The resident will be responsible for defining topics and administering the monthly pediatric surgery journal review seminars. The resident will lead the discussion and may administer a power point lecture. The faculty will critique the slides and lecture style and content in order to refine the resident's communication skills and content synthesis.

**Surgery/Radiology/Gastroenterology/Pathology Combined Rounds (60 minutes)**

The resident will be responsible for organizing and presenting cases at the monthly combined clinical rounds.

**Pediatrics & Surgery Grand Rounds (60 minutes)**

The resident will present once yearly at both the pediatric and surgical grand rounds.

**Tumor Board (60 minutes)**

The resident will attend regularly scheduled meetings of the multidisciplinary oncology board.

**Bariatric Surgery Review Board (60 minutes)**

The resident will attend regularly scheduled meetings of the multidisciplinary healthy weight and bariatric surgery board.

**TABLE 2. NON-ROTATION SPECIFIC DIDACTIC SESSIONS.**

<b>DIDACTIC SESSION</b>	<b>MEDICAL KNOWLEDGE</b>	<b>PATIENT CARE</b>	<b>COMMUNICATION AND INTERPERSONAL SKILLS</b>	<b>PROFESSIONALISM</b>	<b>SYSTEMS-BASED PRACTICE</b>	<b>PRACTICE-BASED LEARNING &amp; IMPROVEMENT</b>
Weekly Clinical Teaching Session By Faculty	√	√			√	√
NICU Seminar Series	√	√			√	√
Grand Rounds	√				√	
Course in Clinical Research	√	√				√
Stanford Healthstream Learning Modules	√	√	√	√	√	√
Systems-Based Improvement Learning	√	√			√	√

### ***1. Activities Targeted to Pediatric Surgery Resident Only:***

#### **NICU Seminar Series (60 minutes)**

When on NICU rotation, the resident will attend all scheduled didactic sessions schedule by the neonatology faculty.

#### **Spectrum Intensive Course in Clinical Research (5 days)**

This is sponsored by the Stanford Center for Innovative Study Design and Child Health. It is an intensive course in clinical research design and performance. Working in groups and with seasoned biostatisticians, a “study proposal” is presented at the end of the course.

#### **Stanford Healthstream Learning Center Modules**

This on-line, self-paced learning center, has a number of modules that are mandatory by the GME office and are completed as part of the residents’ orientation. Additional modules can be completed at the discretion of the Program Director. Examples include; Code of Conduct, Quality Management, HIPAA IT Security, Patient Rights, Sedation Exam, Stress and Depression, Fatigue, Disruptive Behavior and Emergency Preparedness.

#### **Systems Based Improvement Learning (<http://www.ihl.org/offerings/IHIOpenSchool/Courses/Pages/default.aspx>)**

The Institute for Healthcare Improvement (IHI) Open School is a self-paced on-line service that currently offers over 20 courses in the areas of quality improvement, patient safety, patient- and family-centered care, managing health care operations, and leadership. Each course takes roughly an hour to two hours to complete and consists of several lessons taking 15-30 minutes each. The resident is required to complete 2 courses during the training years.

### ***2. Activities Targeted to Both Pediatric Surgery Resident and Rotating General Surgery Residents:***

#### **Monthly Clinical Teaching Session (60 minutes)**

When on Surgical Rotation, a member of the pediatric surgery faculty will give a monthly clinical teaching session to the housestaff that the resident will attend. This session will be subject to both pre and post tests, in the spirit of the in-training exam.

#### **Surgical Grand Rounds (60 minutes)**

The resident will attend all the weekly scheduled surgical grand rounds.

**TABLE 3. LEARNING PORTFOLIO (DESCRIBES THE COMPONENTS OF A LEARNING PORTFOLIO THAT THE FELLOW MUST DOCUMENT BY THE END OF THE FELLOWSHIP).**

<b>PORTFOLIO ITEM</b>	<b>MEDICAL KNOWLEDGE</b>	<b>PATIENT CARE</b>	<b>COMMUNICATION AND INTERPERSONAL SKILLS</b>	<b>PROFESSIONALISM</b>	<b>SYSTEMS-BASED PRACTICE</b>	<b>PRACTICE-BASED LEARNING &amp; IMPROVEMENT</b>
2 Peer Reviewed Journal Articles	√		√			√
Quality Improvement Project	√	√	√	√	√	√
Case Log		√				√
Yearly Presentation at National Conference			√	√		
Ethics Journal Club Presentation				√		√
Yearly In-Training Exam	√					
Biannual Oral Exam	√	√	√	√	√	
Biannual Peer Evaluation			√	√		
PedScore	√	√			√	√

### ***1. Activities Targeted to Pediatric Surgery Resident Only:***

#### **Peer-Reviewed Journal Articles**

The resident will be required to generate at least one manuscript per year of clinical research that will be submitted to a peer-reviewed journal for publication.

#### **Quality Improvement Project**

The resident will be required to identify one ongoing or planned hospital- based quality or performance improvement project and to participate in the understanding of the gaps to be closed, the potential root causes, and to participate in the action plan to close said gaps.

#### **ACGME Case Log**

The resident will keep a running case log of surgical cases as assistant surgeon, surgeon, or teaching surgeon, which will be reviewed on a quarterly basis to determine progress and address gaps in training. This can be accessed by going to the following URL: <https://www.acgme.org/residentdatacollection/>. The residency coordinator will provide you with a userID and password. You may reset your password at any time.

#### **Yearly Presentation at National Conference**

The resident will present once a year at a nationally recognized pediatric surgical conference.

#### **Ethics Journal Club Presentation**

The resident will be required to give one slide presentation that discusses the issues surrounding an ethical dilemma relevant to pediatric surgeons, reinforced by up-to-date examination of the literature.

#### **In-Training Exam (ABSITE)**

Adequacy of medical knowledge will in part be assessed using the yearly in-training exam for pediatric surgery. The resident is expected to score above the 50<sup>th</sup> percentile.

#### **Oral Exam**

A member of the pediatric surgery faculty will give a biannual oral exam to the resident that will be formally evaluated, and the resident will be provided with feedback on progress and gaps in learning.

**Peer Evaluation**

Adequacy of interpersonal communication and professionalism will be assessed by bi-annual peer evaluations of the pediatric surgery resident using nurses, peers, patients and their families.

**PedsScore**

PedsScore is offered via the ABS SCORE (Surgical Council on Resident Education) portal ([www.surgicalcore.org](http://www.surgicalcore.org) : login with your email address as username and use the word "welcome" as password). This self-paced curriculum for pediatric surgery offers suggested readings, open ended discussion topics related to the readings, and multiple choice review questions. It is a framework for adjunct for our core course topic review, PSITE study guide and written board review.

**One and Three Year Follow-Up Program Evaluations**

One and three years after graduation, the resident will be sent a questionnaire that will ask him/her to evaluate the training program. We are interested in learning what the program did well and what we can do to improve the program.

***2. Activity Targeted to Both Pediatric Surgery Resident and Rotating General Surgery Residents:*****Program Evaluation**

The resident (as well as the faculty, general surgery rotating residents, and nurse practitioners) must complete an evaluation of the training program after the first nine months and again after twenty-one months in the program. At the end of the first and second years, the resident, faculty, and nurse practitioners will review all evaluations in a Quality Improvement fashion in order to improve the program and understand how the program is supporting learning. The resident will also complete evaluations of the NICU rotation and this evaluation will be incorporated into this learning event. An agenda will be created, minutes kept, and action plan(s) generated.