

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.

ROTATION	LEARNING ACTIVITIES	MEDICAL KNOWLEDGE	PATIENT CARE	COMMUNICATION AND INTERPERS. SKILLS	PROFESSIO-NALISM	SYSTEMS-BASED PRACTICE	PRACTICE-BASED LEARNING & IMPROVEMENT
NICU	Literature Review Presentation - Topic of Choice	√	√				√
	ECMO Course	√	√				
	Perinatal Conference	√				√	
	Neonatal Resuscitation Simulation (CAPE)	√	√	√		√	
	Counseling Simulation			√	√		
PICU	Literature Review Presentation – Topic of Choice	√	√				√
	Pediatric Advanced Life Support	√	√				
	Weekly conferences	√	√	√		√	√
SURGERY	Journal Club	√	√				√
	Quality Assurance Rounds & Quality Improvement Steering Committee	√	√		√	√	√
	Radiology/GI/Pathology Rounds	√	√	√		√	√
	Intestinal Rehabilitation Program Meetings	√	√	√		√	
	Pediatrics and Surgery Grand Rounds Presentation	√		√			√
	Medical Student Lectures			√			√
	Pediatric Surgery Clinic	√	√	√	√	√	
	Surgery/Anesthesia Rounds						
	OR CRM Simulation						

		√	√	√	√	√	
	Tumor Board	√	√			√	
	Bariatric Board	√	√			√	

Neonatal Intensive Care Unit Rotation (NICU)

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 Intensive Care Unit Rotation (PICU)

Literature Review Presentation (30 minutes)

The resident will identify a case-based, clinical topic of interest relevant to the care of the child, and perform a literature review that culminates in a 30 minute presentation. If worthy, the resident should submit this presentation for publication in a peer reviewed journal.

Pediatric Advanced Life Support (2 full days)

The resident will attend a PALS course, funded by the division.

Pediatric Surgery

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.

Quality Assurance Rounds (60 minutes) & Quality Improvement Committee

The resident will present cases at the monthly pediatric surgery quality assurance (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.

The resident will also be a member of the hospital's Performance Improvement Steering Committee which will expose the resident to a variety of quality planning and initiatives that contribute to knowledge of a systems-based practice. This committee meets monthly and is charged with monitoring of actual or potential patient care and service problems and processes; monitoring effectiveness of improvement teams; addressing utilization, length of stay, resource consumption, and admission and discharge processes. Minutes are generated and the Committee Chair will evaluate the resident bi-annually.

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

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

Intestinal Rehabilitation Program Meetings (60 minutes)

The resident will attend regularly scheduled meetings of the intestinal rehabilitation program to discuss the multidisciplinary care of children with short bowel syndrome.

Pediatrics & Surgery Grand Rounds (60 minutes)

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

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.

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.

DIDACTIC SESSION	MEDICAL KNOWLEDGE	PATIENT CARE	COMMUNICATION AND INTERPERSONAL SKILLS	PROFESSIONALISM	SYSTEMS-BASED PRACTICE	PRACTICE-BASED LEARNING & IMPROVEMENT
Practice Management Seminars			√	√		
Monthly Clinical Teaching Session By Faculty	√	√			√	√
NICU Seminar Series	√	√			√	√
PICU Seminar Series	√	√			√	√
Grand Rounds	√				√	
Billing & Coding Seminar					√	
Responsible Conduct of Research Workshop				√		
Library IT Workshop						√

Practice Management Seminars (60 minutes)

The resident will participate in the practice management seminar series that is currently offered to PGY5 general surgery residents. Seminar topics include *Preparing for Private Practice*, *Preparing for Academic Practice*, *Financial Planning for the New Surgeon*, *Avoiding Malpractice Litigation*, *Contract Negotiation*, and *Effective Leadership and Communication*.

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.

NICU Seminar Series (60 minutes)

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

PICU Seminar Series (60 minutes)

When on PICU rotation , the resident will attend all scheduled didactic sessions schedule by the intensive care medicine faculty.

Surgical Grand Rounds (60 minutes)

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

Billing and Coding Seminar (120 minutes)

The resident will attend the billing and coding seminar already in existence for surgical residents.

Responsible Conduct of Research Workshop (1 full day)

The resident will participate in Stanford's responsible conduct of research workshop.

Lane Library Informational Technology Workshop (1 half day)

The resident will participate in Stanford's Lane Library Online Research Tools Workshop that teaches efficient use of informational technologies available to members of Stanford's community (e.g. Literature search tools).

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

PORTFOLIO ITEM	MEDICAL KNOWLEDGE	PATIENT CARE	COMMUNICATION AND INTERPERSONAL SKILLS	PROFESSIONALISM	SYSTEMS-BASED PRACTICE	PRACTICE-BASED LEARNING & IMPROVEMENT
2 Peer Reviewed Journal Articles	√		√			√
Quality Improvement Chart Review	√	√				√
Case Log		√				√
Electronic Journal Library	√					√
Yearly Presentation at National Conference			√	√		
Bi-Annual Self-Evaluation				√		√
ACS Ethics Online Course & Ethics Presentation				√		√
Yearly In-Training	√					

Exam						
Biannual Oral Exam	√	√	√	√	√	
Biannual 360 ⁰ Evaluation			√	√		

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 Chart Review

Once per year, the resident will be required to identify one relevant clinical indicator of quality within the pediatric surgical practice and perform a chart review to determine the quality of care provided by the service.

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.

Electronic Journal Library

By the end of the training, the resident will provide evidence of an electronic library of journal articles relevant to actual clinical problems they have encountered (minimum 10 topics per year).

Yearly Presentation at National Conference

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

Bi-Annual Self-Evaluation

Twice yearly, the resident will submit and document in the portfolio a self-evaluation of progress in the fellowship using a Likert scale type of evaluation form rating the core competencies.

Ethics Presentation

The resident will be required to give one slide presentation that discusses the issues surrounding an ethical dilemma relevant to pediatric surgeons.

The resident is also required to complete an on-line ethics module given by the American College of Surgeons.

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 50th 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.

360⁰ Evaluation

Adequacy of interpersonal communication and professionalism will be assessed by bi-annual 360⁰ evaluations of the pediatric surgery resident using nurses, peers, patients and their families.

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 and PICU rotations and these evaluations will be incorporated into this learning event. An agenda will be created, minutes kept, and action plan(s) generated.

One Year Follow-Up Program Evaluation

One year 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.