

Thoracic and Cardiovascular Surgery Goals and Objectives

General Goals and Objectives for all Thoracic and Cardiovascular Surgery residents:

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	GOAL			
	To provide patient care that is compassionate, appropriate, and effective for the treatment of thoracic and cardiovascular surgical disorders.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	OBJECTIVES			
	Communicate effectively and demonstrate caring and respectful behaviors when interacting with thoracic and cardiovascular surgery patients and their families.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Gather essential and accurate information about patients with thoracic and cardiovascular surgery disorders.	<ul style="list-style-type: none"> • OR/Clinic Experience • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific	<ul style="list-style-type: none"> • OR/Clinic Experience • Role 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months 	

	evidence, and clinical judgments.	<ul style="list-style-type: none"> modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Chart Stimulated Recall/Oral Quiz 	<ul style="list-style-type: none"> • Daily
	Develop and carry out patient management plans including pre, intra, and post operative.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Chart Stimulated Recall/Oral Quiz 	<ul style="list-style-type: none"> • Daily • 3 months • Daily
	Counsel and educate patients and their families about thoracic and cardiovascular surgery disorders and treatment options.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Use information technology to support patient care decisions and patient education.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform competently all medical and invasive procedures appropriate for the management of thoracic and cardiovascular surgical disorders.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • In-service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual

			<ul style="list-style-type: none"> • Mock Oral Exam 	<ul style="list-style-type: none"> • Annual
	Provide health care services aimed at preventing thoracic and cardiovascular disorders.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading • Journal Club 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Mock Oral Exam • In-service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • Annual • Annual
	Work with other medical and surgical disciplines and healthcare professionals to provide patient-focused care.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
Medical Knowledge	GOAL			
	Acquire basic scientific and clinical knowledge of the full spectrum of thoracic and cardiovascular surgical disorders and be able to apply this knowledge to the care of the thoracic patient.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Mock Oral Exam • In-service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • Annual • Annual
	OBJECTIVES			
	Demonstrate an investigatory and analytic thinking approach to clinical situations.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Mock Oral Exam • In-service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • Annual • Annual
	Know and apply the basic and clinically supportive sciences which are appropriate to their discipline.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Mock Oral Exam 	<ul style="list-style-type: none"> • Daily • 3 months • Annual

		<ul style="list-style-type: none"> • Reading 	<ul style="list-style-type: none"> • In-service Exam 	<ul style="list-style-type: none"> • Annual
Practice Based Learning and Improvement	GOAL			
	To improve patient care practices by the critical evaluation of current practice patterns and by the appraisal and assimilation of scientific evidence and performance standards.	<ul style="list-style-type: none"> • QA/QI project • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • Present research project 	<ul style="list-style-type: none"> • Daily
	OBJECTIVES			
	Analyze practice experience and perform practice-based improvement activities using a systematic methodology.	<ul style="list-style-type: none"> • QA/QI project • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • Present research project 	<ul style="list-style-type: none"> • Daily
	Locate, appraise, and assimilate evidence from thoracic and cardiovascular literature applicable to their patients' health problems.	<ul style="list-style-type: none"> • Conferences/ Lectures • Reading • Research project 	<ul style="list-style-type: none"> • Focused observation • Present research project 	<ul style="list-style-type: none"> • Daily
	Obtain and use information about their patient population and the larger population of patients from which their patients are drawn.	<ul style="list-style-type: none"> • Conferences/ Lectures • Reading • Research project 	<ul style="list-style-type: none"> • Focused observation • 	<ul style="list-style-type: none"> • Daily
	Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.	<ul style="list-style-type: none"> • OR/Clinic Experience • Journal Club • Reading 	<ul style="list-style-type: none"> • Focused observation • Case Log Review • Present research project 	<ul style="list-style-type: none"> • Daily • 3 months

	Use information technology to manage information, access on-line medical information; and support their education.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily
	Facilitate the learning of students and other health care professionals.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily
	SPECIALTY SPECIFIC OBJECTIVES			
	Participate in the workings of the Multidisciplinary Thoracic Oncology (MTOC) program at the VA Medical Center, to include Friday VA Clinic, and treatment-planning conferences.	<ul style="list-style-type: none"> • Conferences/ Lectures 	<ul style="list-style-type: none"> • Attendance Record from conference 	<ul style="list-style-type: none"> • Weekly
	Teach junior housestaff members tube drainage, VATS drainage, and formal decortication.	<ul style="list-style-type: none"> • OR/Clinic Teaching • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily
	Participate in all mandated conferences.	<ul style="list-style-type: none"> • Weekly Conferences 	<ul style="list-style-type: none"> • Attendance Record from conference 	<ul style="list-style-type: none"> • Weekly
	Demonstrate improvement in clinical management.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		<ul style="list-style-type: none"> • Conferences/ Lectures • Reading 		
	Implement new scientific advances and clinical approaches from a variety of sources into current patient care practices.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Mock Exam • In-service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • Annual • Annual
	Analyze and evaluate thoracic surgery literature and examine alternate sources for relevant information that pertains to their patient's health problems.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily • 3 months
	Take responsibility for lifelong learning.	<ul style="list-style-type: none"> • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily • 3 months
	Use information technology such as Up-To-Date, PubMed or Ovid to enhance patient care.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily • 3 months
Interpersonal and Communication Skills	GOAL			
	To demonstrate interpersonal and communication skills (verbal and writing) that result in effective exchange of information with thoracic surgery patients, their families, and other healthcare professionals.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		<ul style="list-style-type: none"> • Reading 		
	GENERAL OBJECTIVES			
	Create and sustain a therapeutic and ethically sound relationship with patients suffering from thoracic and cardiovascular surgical disorders.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Use effective listening skills and elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Work effectively with others as a member or leader of the thoracic surgical team or other professional groups.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	SPECIALTY SPECIFIC OBJECTIVES			
	Provide follow-up to the MTOC of operative findings.	<ul style="list-style-type: none"> • Conferences/ Lectures 	<ul style="list-style-type: none"> • Attendance Record from conference 	<ul style="list-style-type: none"> • Weekly
	Represent the Thoracic Staff in interactions with patients and their families, acting with compassion and consideration at all times.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		Lectures		
	Carefully listen to patients to assess the patient's health problems including verbal and non-verbal communications.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Demonstrating respectful and considerate attitudes, effectively communicate with patients, families, and other health care personnel, when addressing management plans, patient issues, and especially end-of-life decisions.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Accurately present (verbally and written) a case to attending physicians, fellow residents, and other health care professionals.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Provide timely, legible, and thorough medical record documentation - histories and physical examinations, admission notes, progress notes, procedure notes and discharge summaries.	<ul style="list-style-type: none"> • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily • 3 months
	Provide education and counseling to patients, and families using non-technical and clear language. (Use non-verbal and verbal communication skills)	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Spend adequate time with patients addressing	<ul style="list-style-type: none"> • OR/Clinic 	<ul style="list-style-type: none"> • Focused 	<ul style="list-style-type: none"> • Daily

	their questions and concerns.	<ul style="list-style-type: none"> • Experience • Role modeling 	<ul style="list-style-type: none"> • observation • 360° evaluation 	<ul style="list-style-type: none"> • 3 months
	Work well within a team consisting of students, residents, attending physicians, nurses, and patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Function effectively as a consultant for specialty and subspecialty care.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Communicate effectively when discussing patient conditions and health care practices with fellow residents, attending physicians and other health care providers.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
Professionalism	GOAL			
	To demonstrate a professional attitude, adhere to ethical principles and display sensitivity to a diverse patient population.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients, society that supercedes self-interest; accountability to patients, society, and the profession; and a	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

	commitment to excellence and on-going professional development.	<ul style="list-style-type: none"> • Conferences/ Lectures 		
	Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care confidentiality of patient information, informed consent, and business practices.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Demonstrate a sensitivity and responsiveness to patients' culture, age, gender, and disabilities.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	SPECIALTY SPECIFIC OBJECTIVES			
	Interface with referring and consulting physicians and appropriate hospital staff in a professional and respectful manner, recognizing and instituting the core competencies.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Demonstrate respect, compassion, integrity, punctuality, reliability, and honesty with patients and colleagues.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		<ul style="list-style-type: none"> • Reading 		
	Show regard for the opinions of others.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Display initiative and leadership.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Acknowledge errors, alert patients and appropriate health care providers about the errors, and create a plan of action to minimize them.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • M & M Conference 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months • Monthly
	Demonstrate concern for educational development of students and residents.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Volunteer for activities for the good of the institution and community.	<ul style="list-style-type: none"> • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

	Ask for help when needed and accept constructive feedback.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Maintain patient confidentiality.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Compassionately respond to issues of culture, age, gender, ethnicity, and disability in patient care.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
Systems-Based Practice	GOAL			
	Demonstrate an awareness of and responsiveness to the healthcare system and use available	<ul style="list-style-type: none"> • OR/Clinic Experience 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily

	resources from this system to optimize the care of thoracic and cardiovascular patients.	<ul style="list-style-type: none"> • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • 360° evaluation 	<ul style="list-style-type: none"> • 3 months
	GENERAL OBJECTIVES			
	Understand how thoracic patient care practices affect other health care professionals, the health care organization, and the larger society.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Practice cost-effective health care and resource allocation that does not compromise quality of care.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Advocate for quality patient care and assist patients in dealing with system complexities.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

<p>Know how to partner with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
SPECIALTY SPECIFIC OBJECTIVES			
<p>Demonstrate ability to deliver high-quality medical care in a private, government, and inner city hospital settings.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
<p>Demonstrate the knowledge of different types of medical practice and health care delivery systems and understand how this affects patient care.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • In-service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • Annual
<p>Demonstrate knowledge of business aspects of medical practice including coding, billing, and insurance.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • In-service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • Annual
<p>Work with ancillary team members (discharge planners, case managers, and social workers) to provide high quality cost-effective care.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		Lectures		
	Use systematic approaches to reduce errors.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Practice effective allocation of health care resources to avoid compromising quality of care.	<ul style="list-style-type: none"> • OR/Clinic Experience • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
	Serve as a patient advocate in the outpatient and inpatient setting.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

Thoracic Surgery Rotation at the Regional Medical Center

PGY-6

Goal: To establish firm foundations of the knowledge, understanding, diagnosis and management of thoracic diseases that require surgery. (basic concepts, skills) Move into independent work.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Complete a preoperative workup of patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Perform a comprehensive patient history.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Stage cancer patients preoperatively and postoperatively.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Recommend postoperative adjuvant therapy to cancer patients who may benefit.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Provide continuity of care from clinic, preoperatively, postoperatively and in follow-up to ensure quality outcomes for patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		modeling	<ul style="list-style-type: none"> Record Review 	
	Take primary responsibility for the postoperative care of thoracotomy patients, including pain management, fluid management, arrhythmia management, and acute ventilator care.	<ul style="list-style-type: none"> OR/Clinic Experience Role modeling M & M conference 	<ul style="list-style-type: none"> Focused observation 360° evaluation 	<ul style="list-style-type: none"> Daily 3 months
	Perform tube drainage, VATS drainage, and formal decortication, endoscopy, bronchoscopy, and esophagoscopy.	<ul style="list-style-type: none"> OR/Clinic Experience Role modeling Conferences/ Lectures Reading 	<ul style="list-style-type: none"> Focused observation 360° evaluation Case Log Review 	<ul style="list-style-type: none"> Daily 3 months 3 months
	Evaluate pulmonary and esophageal disease utilizing the following procedures: CT, PET, MRI, PFT, and esophageal manometry.	<ul style="list-style-type: none"> OR/Clinic Experience Role modeling Conferences/ Lectures Reading 	<ul style="list-style-type: none"> Focused observation 360° evaluation Case Log Review 	<ul style="list-style-type: none"> Daily 3 months 3 months
	Participate as primary surgeon in the anatomic resection of bronchogenic carcinomas, benign pulmonary lesions including infections, utilizing wedge biopsy, segmental resection, lobectomy, or pneumonectomy.	<ul style="list-style-type: none"> OR/Clinic Experience Role modeling Conferences/ Lectures Reading 	<ul style="list-style-type: none"> Focused observation 360° evaluation Case Log Review 	<ul style="list-style-type: none"> Daily 3 months 3 months
	Evaluate cardiac disease e.g. cardiac catheterization, radionuclide studies, and	<ul style="list-style-type: none"> OR/Clinic 	<ul style="list-style-type: none"> Focused 	<ul style="list-style-type: none"> Daily

	roentgenographic studies.	<ul style="list-style-type: none"> • Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • 3 months • 3 months
	Perform open and thorascopic pulmonary procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Demonstrate proficiency in central line and Swan-Ganz placement, reading chest scans, and cardiac cath films.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Apply the staging system for bronchogenic carcinoma.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

	<p>Demonstrate knowledge of the clinical outcome and indication for operation and prognosis for patients at each level of stage.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	<p>Learn the course and stages of empyema thoraces, including tube drainage, VATS drainage, and formal decortication.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	<p>Develop proficiency in thoracic approaches to benign esophageal disease, such as diverticular disease, achalasia, and the occasional complex reflux case to which a thoracic approach is chosen.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	<p>Recognize indications and exclusions for pulmonary surgery.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

PGY-7

Goal: To achieve a level of clinical and surgical knowledge, decision making and management skills, and professional ability to competently practice as an independent thoracic surgeon.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Perform sleeve resections, lung sparing procedures and other complex pulmonary approaches.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform mediastinal, chest wall, diaphragm, and tracheal operations.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform open and thorascopic pulmonary procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Medical				

Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Recognize the various presentations and approaches to esophageal carcinoma, the operations (especially with Ivor Lewis resections), blunt esophagectomy and variations thereof.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop surgical endoscopic, bronchoscopic, and esophagosopic skills relating to the airways and esophagus.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop skills for coronary revascularization, great vessel repairs, valvular reconstructions and/or repair; treat complications of myocardial infarctions; recognize and treat traumatic injuries of the heart, great vessels, lungs, esophagus and airways.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop skills for cardiopulmonary support devices, e.g. LVAD, IABP, and ventilators.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

	Become familiar with endovascular procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
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**Thoracic and Cardiovascular Surgery
VA Medical Center Rotation**

PGY-6

Goal: To establish firm foundations of the knowledge, understanding, diagnosis and management of thoracic diseases that require surgery. (basic concepts, skills) Move into independent work.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Complete a preoperative workup of patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Perform a comprehensive patient history.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Stage cancer patients preoperatively and postoperatively.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months

Recommend postoperative adjuvant therapy to cancer patients who may benefit.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
Provide continuity of care from clinic, preoperatively, postoperatively, and in follow-up to ensure quality outcomes for patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
Take primary responsibility for the postoperative care of thoracotomy patients, including pain management, fluid management, arrhythmia management, and acute ventilator care.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Perform tube drainage, VATS drainage, and formal decortication, endoscopy, bronchoscopy, and esophagoscopy.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Evaluate pulmonary and esophageal disease utilizing the following procedures: CT, PET,	<ul style="list-style-type: none"> • OR/Clinic Experience 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily

	MRI, PFT, and esophageal manometry.	<ul style="list-style-type: none"> • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • 3 months • 3 months
	Participate as primary surgeon in the anatomic resection of bronchogenic carcinomas, benign pulmonary lesions including infections, utilizing wedge biopsy, segmental resection, lobectomy, or pneumonectomy.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral valve replacement or repair; pacemaker and AICD indications and placement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Evaluate for cardiac disease, e.g. cardiac catheterization, radionuclide studies, and roentgenographic studies.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Demonstrate proficiency in cardiovascular critical care in the intensive care unit.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		<ul style="list-style-type: none"> • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Case Log Review 	<ul style="list-style-type: none"> • 3 months
	Perform open and thorascopic pulmonary procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Demonstrate proficiency in central line and Swan-Ganz placement, reading chest scans, and cardiac cath films.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Apply the staging system for bronchogenic carcinoma.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Demonstrate knowledge of the clinical outcome and indication for operation and prognosis for patients at each stage.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		<ul style="list-style-type: none"> modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • 3 months • Annual • Annual
	Learn the course and stages of empyema thoraces, including tube drainage, VATS drainage, and formal decortication.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop proficiency in thoracic approaches to benign esophageal disease, such as diverticular disease, achalasia, and the occasional complex reflux case to which a thoracic approach is chosen.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Recognize indications and exclusions for pulmonary surgery.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

PGY-7

Goal: To achieve a level of clinical and surgical knowledge, decision making and management skills, and professional ability to competently practice as an independent thoracic surgeon.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Perform sleeve resections, lung sparing procedures and other complex approaches.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform mediastinal, chest wall, diaphragm, and tracheal procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform CABG, TMR, AVR, MVR and other valve procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Diagnose and treat complications of myocardiac	<ul style="list-style-type: none"> • OR/Clinic 	<ul style="list-style-type: none"> • Focused 	<ul style="list-style-type: none"> • Daily

	infarctions and disease of the great vessels.	<ul style="list-style-type: none"> • Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • 3 months • 3 months
	Perform coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral vlave replacement or repair; pacemaker and AICD indications and placement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform open and thorascopic pulmonary procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Recognize the various presentations and approaches to esophageal carcinoma, the operations (especially with Ivor Lewis resections), blunt esophagectomy and variations thereof.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

Develop surgical endoscopic, bronchoscopic, and esophagoscopy skills relating to the airways and esophagus.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
Develop skills for coronary revascularization, great vessel repairs, valvular reconstructions and/or repair; treat complications of myocardial infarctions; recognize and treat traumatic injuries of the heart, great vessels, lungs, esophagus and airways.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
Develop skills for cardiopulmonary support devices including LVAD, IABP, and ventilators.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
Become familiar with endovascular procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
Recognize complications of myocardial	<ul style="list-style-type: none"> • OR/Clinic 	<ul style="list-style-type: none"> • Focused 	<ul style="list-style-type: none"> • Daily

	infarctions and diseases of the great vessels.	<ul style="list-style-type: none"> • Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • 3 months • 3 months • Annual • Annual
	Demonstrate an understanding of the indications and exclusions for coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral valve replacement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

Thoracic and Cardiovascular Surgery Rotation at Methodist University Hospital

PGY-6

Goal: To establish firm foundations of the knowledge, understanding, diagnosis and management of thoracic diseases that require surgery.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Demonstrate proficiency in cardiovascular critical care in the intensive care unit.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral valve replacement or repair; pacemaker and AICD indications and placement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform open and thorascopic pulmonary procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months

		<ul style="list-style-type: none"> • Reading 		
	Demonstrate proficiency in central line and Swan-Ganz placement, reading chest scans, and cardiac cath films.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Provide continuity of care from clinic, preoperatively, postoperatively, and in follow-up to ensure quality outcomes for patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Complete a preoperative workup of patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform a comprehensive patient history.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months

Stage cancer patients preoperatively and postoperatively.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
Knowledge of the clinical outcome and indication for operation and prognosis for cancer patients at each stage.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months
Recommend postoperative adjuvant therapy to patients who may benefit.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
Evaluate for cardiac disease, e.g. cardiac catheterization, radionuclide studies, and roentgenographic studies.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Take primary responsibility for the postoperative care of thoracotomy patients, including pain	<ul style="list-style-type: none"> • OR/Clinic Experience 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily

	management, fluid management, arrhythmia management, and acute ventilator care.	<ul style="list-style-type: none"> • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • 3 months • 3 months
	Perform tube drainage, VATS drainage, and formal decortication, endoscopy, bronchoscopy, and esophagoscopy.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Evaluate pulmonary and esophageal disease utilizing the following procedures: CT, PET, MRI, PFT, and esophageal manometry.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Participate as primary surgeon in the anatomic resection of bronchogenic carcinomas, benign pulmonary lesions including infections, utilizing wedge biopsy, segmental resection, lobectomy, or pneumonectomy.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Evaluate for cardiac disease, e.g. cardiac catheterization, radionuclide studies, and roentgenographic studies.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		<ul style="list-style-type: none"> • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Case Log Review 	<ul style="list-style-type: none"> • 3 months
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Recognize indications and exclusions for pulmonary surgery.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Apply the staging system for bronchogenic carcinoma.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Demonstrate knowledge of the clinical outcome and indication for operation and prognosis for patients at each stage.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Learn the course and stages of empyema thoraces, including tube drainage, VATS drainage, and formal decortication.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months

		<ul style="list-style-type: none"> • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Annual • Annual
	Develop proficiency in thoracic approaches to benign esophageal disease, such as diverticular disease, achalasia, and the occasional complex reflux case to which a thoracic approach is chosen.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

PGY-7

Goal: To achieve a level of clinical and surgical knowledge, decision making and management skills, and professional ability to competently practice as an independent thoracic surgeon.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Perform CABG, TMR, AVR, MVR, and other valve procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Treat complications of myocardial infarctions and disease of the great vessels.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		<ul style="list-style-type: none"> • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Case Log Review 	<ul style="list-style-type: none"> • 3 months
	Perform mediastinal, chest wall, diaphragm, and tracheal operations.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform sleeve resections, lung sparing procedures and other complex approaches.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral valve replacement or repair; pacemaker and AICD indications and placement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform open and thorascopic pulmonary procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months

		<ul style="list-style-type: none"> • Reading 		
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Recognize indications and exclusions for pulmonary surgery.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Recognize complications of myocardial infarctions and disease of the great vessels.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop skills for cardiopulmonary support devices including LVAD, IABP, and ventilators.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Recognize the various presentations and approaches to esophageal carcinoma, the operations (especially with Ivor Lewis resections), blunt esophagectomy and variations thereof.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

		<ul style="list-style-type: none"> • Reading 		
	Develop surgical endoscopic, bronchoscopic, and esophagoscopy skills relating to the airways and esophagus.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop skills for coronary revascularization, great vessel repairs, valvular reconstructions and/or repair; treat complications of myocardial infarctions; recognize and treat traumatic injuries of the heart, great vessels, lungs, esophagus and airways.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Become familiar with endovascular procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Demonstrate an understanding of the indications and exclusions for coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral valve replacement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

Thoracic and Cardiovascular Surgery Rotation at Baptist Hospital

PGY-6

Goal: To establish firm foundations of the knowledge, understanding, diagnosis and management of thoracic diseases that require surgery.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Demonstrate proficiency in cardiovascular critical care in the intensive care unit.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Demonstrate proficiency in central line and Swan-Ganz placement, reading chest scans, and cardiac cath films.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Use ventricular assist devices, AICD placement and pacemaker placement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months

		<ul style="list-style-type: none"> Lectures • Reading 		
	Provide continuity of care from clinic, preoperatively, postoperatively, and in follow-up to ensure quality outcomes for patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Complete a preoperative workup of patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Perform a comprehensive patient history.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Stage cancer patients preoperatively and postoperatively.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months

	<p>Knowledge of the clinical outcome and indication for operation and prognosis for patients at each level of stage.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	<p>Recommend postoperative adjuvant therapy to cancer patients who may benefit.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	<p>Take primary responsibility for the postoperative care of thoracotomy patients, including pain management, fluid management, arrhythmia management, and acute ventilator care.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	<p>Perform tube drainage, VATS drainage, and formal decortication, endoscopy, bronchoscopy, and esophagoscopy.</p>	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	<p>Evaluate pulmonary and esophageal disease using CT, PET, MRI and PFT scans; and esophageal</p>	<ul style="list-style-type: none"> • OR/Clinic Experience 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily

	manometry.	<ul style="list-style-type: none"> • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • 3 months • 3 months
	Participate as primary surgeon in the anatomic resection of bronchogenic carcinomas, benign pulmonary lesions, including infections, utilizing wedge biopsy, segmental resection, lobectomy, or pneumonectomy.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Evaluate for cardiac disease, e.g. cardiac catheterization, radionuclide studies, and roentgenographic studies.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral valve replacement or repair; pacemaker and AICD indications and placement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform open and thorascopic pulmonary procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

		<ul style="list-style-type: none"> • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Case Log Review 	<ul style="list-style-type: none"> • 3 months
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Recognize the indications and exclusions for pulmonary surgery.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Apply the staging system for bronchogenic carcinoma.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Demonstrate knowledge of the clinical outcome and indication for operation and prognosis for patients at each level of stage.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Learn the course and stages of empyema thoraces, including tube drainage, VATS drainage, and formal decortication.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months

		<ul style="list-style-type: none"> • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Annual • Annual
	Develop proficiency in thoracic approaches to benign esophageal disease, such as diverticular disease, achalasia, and the occasional complex reflux case to which a thoracic approach is chosen.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

PGY-7

Goal: To achieve a level of clinical and surgical knowledge, decision making and management skills, and professional ability to competently practice as an independent thoracic surgeon.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Perform sleeve resections and lung sparing.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform mediastinal, chest wall, diaphragm,, and tracheal operations.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months

		<ul style="list-style-type: none"> Lectures • Reading 		
	Perform coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral valve replacement or repair.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform open and thorascopic pulmonary procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform CABG, TMR, AVR, MVR, and other valve procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Treat complications of myocardiac infarctions and disease of the great vessels.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months

	Heart transplants.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Understand the indications and exclusions for coronary artery bypass grafts, transmyocardial revascularization, aortic valve replacement, and mitral valve replacement.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Diagnose and treat diseases of the great vessels and complications for myocardial infarction.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop skills for cardiopulmonary support devices, e.g. LVAD, IABP, and ventilators.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

	Become familiar with endovascular procedures.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Recognize the various presentations and approaches to esophageal carcinoma, the operations (especially with Ivor Lewis resections), blunt esophagectomy and variations thereof.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop surgical endoscopic, bronchoscopic, and esophagoscopy skills relating to the airways and esophagus.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop skills for coronary revascularization, great vessel repairs, valvular reconstructions and/or repairs; treat complications of myocardial infarctions; recognize and treat traumatic injuries of the heart, great vessels, lungs, esophagus and airways.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Recognize complications of myocardial	<ul style="list-style-type: none"> • OR/Clinic 	<ul style="list-style-type: none"> • Focused 	<ul style="list-style-type: none"> • Daily

	infarctions and diseases of the great vessels.	Experience <ul style="list-style-type: none"> • Role modeling • Conferences/ Lectures • Reading 	observation <ul style="list-style-type: none"> • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • 3 months • 3 months • Annual • Annual
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Pediatric Thoracic and Cardiovascular Surgery Rotation at LeBonheur Children’s Medical Center

PGY-6

Goal: To establish firm foundations of the knowledge, understanding, diagnosis and management of pediatric thoracic diseases that require surgery.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Evaluate for cardiac disease, e.g. cardiac catheterization, radionuclide studies, and roentgenographic studies.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Complete a preoperative workup of patients.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months
	Perform a comprehensive patient history.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months

		Lectures • Reading		
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Describe the embryology of the heart and great vessels as it relates to the development of congenital heart anomalies, the normal anatomy of the heart, and the abnormal anatomy of common congenital cardiac anomalies.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Develop an understanding the physiology of the developing heart, the physiologic changes of advancing age and transition to ex-utero, and the physiologic consequences of congenital heart disease.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Demonstrate a working knowledge of principles of cardiopulmonary bypass for congenital heart disease, the techniques of myocardial preservation, and the use of profound hypothermia and total circulatory arrest in the infant and child.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Diagnose and treat left-to-right shunts caused by congenital heart anomalies.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual

		<ul style="list-style-type: none"> Lectures • Reading 	<ul style="list-style-type: none"> • In-Service Exam 	<ul style="list-style-type: none"> • Annual
	Demonstrate knowledge of the anatomy and physiology of anomalies that result in cyanosis, their diagnosis, and their preoperative, operative, and postoperative management.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Demonstrate knowledge of the anatomy and physiology of obstructive anomalies of the left and right sides of the heart and aorta, and their diagnosis, management and postoperative care.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Demonstrate knowledge of embryology, anatomy, pathology, physiology, diagnosis and treatment of common and unusual or complex congenital anomalies of the heart, lung, trachea, bronchi, diaphragm, esophagus, mediastinum, and chest wall in the pediatric patient.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Demonstrate knowledge of the coagulation and fibrinolytic systems.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

		<ul style="list-style-type: none"> • Reading 		
	Recognize the indications, implantation techniques, physiology, complications, and sequelae of transthoracic permanent pacemaker implantation.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual
	Represent the Thoracic Staff in interactions with patients and their families, acting with compassion and consideration at all times.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual

PGY-7

Goal: To achieve a level of clinical and surgical knowledge, decision making and management skills, and professional ability to competently practice as an independent thoracic surgeon.

Competency	Required Skill(s)	Teaching Method(s)	Formative Evaluation Method(s)	Frequency of Evaluation
Patient Care	SPECIALTY SPECIFIC OBJECTIVES			
	Demonstrate proficiency in the postoperative care of patients having palliation or correction of congenital cardiac, pulmonary, tracheal,	<ul style="list-style-type: none"> • OR/Clinic Experience • Role 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation 	<ul style="list-style-type: none"> • Daily • 3 months

	bronchial, diaphragmatic, esophageal, mediastinal, and chest wall anomalies.	<ul style="list-style-type: none"> modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Record Review 	
	Perform techniques to manage coagulation and fibrinolytic systems.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
	Perform mediastinal, chest wall, diaphragm, and tracheal operations.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months
Medical Knowledge	SPECIALTY SPECIFIC OBJECTIVES			
	Develop skills for cardiopulmonary support devices, e.g. LVAD, IABP, and ventilators.	<ul style="list-style-type: none"> • OR/Clinic Experience • Role modeling • Conferences/ Lectures • Reading 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Case Log Review • Mock Oral Exam • In-Service Exam 	<ul style="list-style-type: none"> • Daily • 3 months • 3 months • Annual • Annual