

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 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, e.g. LVAD, IABP, and ventilators.	<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 		
	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

**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/ 	<ul style="list-style-type: none"> • Focused observation • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • Daily • 3 months

		Lectures		
	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, 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
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 	<ul style="list-style-type: none"> • Focused observation 	<ul style="list-style-type: none"> • Daily

		<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 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	<ul style="list-style-type: none"> • OR/Clinic 	<ul style="list-style-type: none"> • Focused 	<ul style="list-style-type: none"> • Daily

	patients at each stage.	<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
	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 	<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 	<ul style="list-style-type: none"> • 3 months
	Diagnose and treat 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 	<ul style="list-style-type: none"> • Daily • 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	<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

	resections), blunt esophagectomy and variations thereof.	<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
	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 	<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
	Recognize complications of myocardial infarctions and diseases 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
	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 	<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"> • Record Review 	
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 	<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
	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 	<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
	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	<ul style="list-style-type: none"> • OR/Clinic 	<ul style="list-style-type: none"> • Focused 	<ul style="list-style-type: none"> • Daily

	of patients having palliation or correction of congenital cardiac, pulmonary, tracheal, bronchial, diaphragmatic, esophageal, mediastinal, and chest wall anomalies.	<p>Experience</p> <ul style="list-style-type: none"> • Role modeling • Conferences/ Lectures • Reading 	<p>observation</p> <ul style="list-style-type: none"> • 360° evaluation • Record Review 	<ul style="list-style-type: none"> • 3 months
	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