



Cardiothoracic Surgery Rotation

Cardiothoracic Surgery Rotation Information (including Rotation Learning Outcomes, Instructional Objectives, Preceptor Evaluation of Student Form, and Rotation-Specific Curriculum Integration Table)

Instructor of Record for Cardiothoracic Surgery:

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Cardiothoracic Surgery Clinical Rotation Topics

Cardiovascular System

Cardiomyopathy: Dilated, Hypertrophic, Restrictive, Stress
Conduction disorders/dysrhythmias: Atrial fibrillation, Atrial flutter, Atrial tachycardia, Atrioventricular block, Bradycardia, Bundle branch block, Idioventricular rhythm, Junctional, Premature contractions, QT prolongation, Sick sinus syndrome, Sinus arrhythmia, Torsades de pointes, Ventricular fibrillation, Ventricular tachycardia
Congenital heart disease: Atrial septal defect, Coarctation of aorta, Patent ductus arteriosus, Tetralogy of Fallot, Transposition of the great vessels, Ventricular septal defect
Coronary artery disease: Acute myocardial infarction, Angina pectoris, Non-ST-segment elevation myocardial infarction, ST-segment elevation myocardial infarction, Unstable angina, Atherosclerosis
Heart failure
Hypertension: Primary hypertension, Secondary hypertension, Hypertensive emergencies, Hypotension: Orthostatic hypotension, Vasovagal hypotension
Lipid disorder
Shock: Cardiogenic, Distributive, Hypovolemic, Obstructive
Traumatic, infectious, and inflammatory heart conditions: Cardiac tamponade, Infective endocarditis, Myocarditis, Pericardial effusion, Pericarditis
Valvular disorders: Aortic, Mitral, Pulmonary, Tricuspid
Vascular disease: Aortic aneurysm/dissection, Arterial embolism/thrombosis, Arteriovenous malformation, Deep vein thrombosis, Giant cell arteritis, Peripheral artery disease, Phlebitis/thrombophlebitis, Varicose veins, Venous insufficiency

Hematologic System

Transfusion Reaction

Renal System

Acid base disorders
Fluid imbalances

Cardiothoracic Surgery Clinical and Technical Skills

Cardiothoracic Surgery Clinical Skills	
Clinical Skills	Obtain pre-procedural/surgical consent for cardiothoracic surgery(RLO3)
	Elicit a detailed and accurate history for a patient seeking pre-operative care for cardiothoracic surgery (RLO2)
	Elicit a detailed and accurate history for a patient seeking post-operative care for cardiothoracic surgery(RLO2)
	Perform an appropriate physical examination for a patient seeking cardiothoracic pre-operative care (RLO2)
	Perform an appropriate physical examination for a patient seeking cardiothoracic post-operative care (RLO2)
	Document pre-operative evaluations (RLO4)
	Document a post-operative evaluations (RLO4)
	Document procedures (RLO4)
	Document discharge instructions (RLO4, Clinical and Technical Skills)
	Select appropriate medications (RLO3)
	Select appropriate dose for medications (RLO3)
Technical Skills	
	Demonstrate proper surgical scrub technique (Clinical and Technical Skills Checklist)

Cardiothoracic Surgery Rotation Learning Outcomes and Instructional Objectives

Rotation Learning Outcomes	Instructional Objectives
<p>Students will demonstrate medical knowledge of the pathophysiology, etiology, epidemiology, patient presentation, differential diagnosis, diagnostic work-up, patient management, health promotion, and disease prevention for common conditions (listed in Cardiothoracic Surgery Clinical Rotation Topics above) for patients seeking pre-operative, intra-operative, and post-operative care.</p>	
	<p>Cardiothoracic Surgery instructional objective: Explain the pathophysiology of the clinical presentations of conditions requiring pre-operative, intra-operative, and post-operative management listed in the Cardiothoracic Surgery Clinical Rotation Topics (above). (MK-PLO3)</p>
	<p>Cardiothoracic Surgery instructional objective: Describe the etiology and epidemiology of the clinical conditions requiring pre-operative, intra-operative, and post-operative management listed in the Cardiothoracic Surgery Clinical Rotation Topics (above). (MK-PLO3)</p>
	<p>Cardiothoracic Surgery instructional objective: Identify the acute and chronic patient presentation of conditions requiring pre-operative, intra-operative, and post-operative management listed in the Cardiothoracic Surgery Clinical Rotation Topics (above). (MK-PLO3)</p>
	<p>Cardiothoracic Surgery instructional objective: Differentiate how disease processes of conditions requiring pre-operative, intra-operative, and post-operative management listed in the Cardiothoracic Surgery Clinical Rotation Topics (above) present. (MK-PLO3)</p>
	<p>Cardiothoracic Surgery instructional objective: Explain the appropriate diagnostic workup of patients receiving pre-operative, intra-operative, and post-operative care for the clinical conditions listed in the</p>

	Cardiothoracic Surgery Clinical Rotation Topics (above). (MK-PLO3)
	Cardiothoracic Surgery instructional objective: Formulate a differential diagnosis for the patient presentation of conditions requiring pre-operative, intra-operative, and post-operative management listed in the Cardiothoracic Surgery Clinical Rotation Topics (above). (MK-PLO3)
	Cardiothoracic Surgery instructional objective: Describe the presentation, diagnosis, and management (medical and surgical) of conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above) that require pre-operative, intra-operative, and postoperative care. (MK-PLO2)
	Cardiothoracic Surgery instructional objective: Describe the presentation, diagnosis, and management of conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above) that require inpatient management. (MK-PLO2)
	Cardiothoracic Surgery instructional objective: Compare and contrast the risks and benefits of diagnostic studies and treatment plans for conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above) requiring pre-operative, intra-operative, postoperative care. (MK-PLO3)
	Cardiothoracic Surgery instructional objective: Summarize the indications and contraindications of procedures commonly used in pre-operative, intra-operative, and post-operative treatment of conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above). (MK PLO-2)
	Surgery instructional objective: Compare and contrast the risks and benefits of procedures indicated for the pre-operative, intra-operative, and post-operative management of conditions listed in the Surgery Clinical Rotation Topics (above). (MK PLO-3)

	Cardiothoracic Surgery instructional objective: Outline the appropriate patient management of the clinical conditions requiring pre-operative, intra-operative, and post-operative care listed in the Cardiothoracic Surgery Clinical Rotation Topics (above). (MK-PLO3)
	Cardiothoracic Surgery instructional objective: Identify the common medication problems specific to pre-operative, intra-operative, and post-operative care, including polypharmacy, potential toxic interactions of drugs, compliance issues, and the complexity of new medication prescribing. (MK-PLO3)
	Cardiothoracic Surgery instructional objective: Recognize when it is appropriate to obtain informed consent for patients seeking pre-operative, intra-operative, and post-operative care.
	Cardiothoracic Surgery instructional objective: Discuss medications commonly used in the treatment of patients receiving pre-operative, intra-operative, and post-operative care for conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above), including indications, contraindications, possible drug interactions, mechanism of action, most common side effects, need for laboratory monitoring, and appropriate dosage. (MK PLO-3)
	Cardiothoracic Surgery instructional objective: Interpret and apply healthcare guidelines for patients receiving pre-operative, intra-operative, and post-operative care (MK PLO-3)
	Cardiothoracic Surgery instructional objective: Select appropriate prescription medication(s) and dosing for the treatment of patients seeking care for pre-operative, intra-operative, and post-operative conditions as listed in the Cardiothoracic Surgery Clinical Rotation Topics (above). (MK PLO-3)
	Cardiothoracic Surgery medicine instructional objective: Actively participate in the management of patients receiving pre-

	operative, intra-operative, and post-operative care. (MK- PLO3)
	Cardiothoracic Surgery instructional objective: Differentiate between the types of shock and discuss approaches for their management. (MK-PLO2)
	Cardiothoracic Surgery instructional objective: Describe the surgical procedure used to treat the clinical conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above) requiring surgical management. (MK-PLO2)
	Cardiothoracic Surgery instructional objective: Summarize fluid and electrolyte management in the surgical patient. (MK PLO-3)
	Cardiothoracic Surgery instructional objective: Understand the role and responsibilities of a surgical assistant during intra-operative care. (PC-PLO5)
Students will elicit a detailed and accurate patient history, perform an appropriate physical examination (including but not limited to a pre-procedure/surgical consent, pre-operative H&P, post-operative evaluation, and inpatient evaluation), appropriately use and interpret diagnostic testing and laboratory studies, and formulate differential diagnoses and assessment plans for symptoms/conditions (listed in Cardiothoracic Surgery Clinical Rotation Topics above) commonly encountered in patients seeking in an (a) inpatient setting and (b) operating room setting (including pre-operative, intra-operative, and post-operative care).	
	Cardiothoracic Surgery instructional objective: Demonstrate an age-appropriate problem-focused history and physical exam for conditions requiring surgical management. (PC PLO-1, PC-PLO-2)
	Cardiothoracic Surgery instructional objective: Demonstrate an age-appropriate problem-focused pre-operative, post-

	operative, and inpatient history and physical examination. (PC-PLO-1, PC-PLO2)
	Cardiothoracic Surgery instructional objective: Select and interpret appropriate diagnostic and laboratory studies related to conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above) in an (a) inpatient setting and (b) operating room setting (including pre-operative, intra-operative, and post-operative care). (PC-PLO3)
	Cardiothoracic Surgery instructional objective: Manage pre-operative, postoperative, and inpatient care of patients with conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above). (PC PLO-4)
	Cardiothoracic Surgery instructional objective: Formulate an appropriate differential diagnosis for surgical conditions based on history, physical examination, diagnostic data, and clinical reasoning in an (a) inpatient setting and (b) operating room setting (including pre-operative, intra-operative, and post-operative care). (PC-PLO4)
	Cardiothoracic Surgery instructional objective: Develop an appropriate assessment, management care plan, and disposition of patients, given all pertinent medical data, including history, physical exam, laboratory, and diagnostic data in an (a) inpatient setting and (b) operating room setting (including pre-operative, intra-operative, and post-operative care). (PC-PLO4)
	Cardiothoracic Surgery instructional objective: Actively participate in the management of patients with conditions listed in the Cardiothoracic Surgery Clinical Rotation Topics (above) in an (a) inpatient setting and (b) operating room setting (including pre-operative, intra-operative, and post-operative care). (PC- PLO4)

Students will perform the following technical skill: proper surgical scrub technique.	
	Cardiothoracic surgery instructional objective: Identify the indications and purpose of a surgical scrub in preventing surgical site contamination.(PC-PLO5)
	Cardiothoracic surgery instructional objective:: Demonstrate proper preparation for a surgical scrub, including removal of jewelry, inspection of hands/forearms, and appropriate PPE selection.(PC-PLO5)
	Cardiothoracic surgery instructional objective: Correctly perform the steps of a standardized surgical scrub technique (anatomic or timed), including hand and forearm cleansing, sequence, and contact time.(PC-PLO5)
	Cardiothoracic surgery instructional objective: Maintain aseptic technique throughout the scrub, ensuring hands and arms remain above the elbows and away from non-sterile surfaces.(PC-PLO5)
	Cardiothoracic surgery instructional objective: Dry hands and arms using sterile technique and proceed to gowning/gloving without contamination.(PC-PLO5)
	Cardiothoracic surgery instructional objective: Recognize and appropriately respond to contamination during the scrub (e.g., restarting the scrub or repeating steps as required by institutional policy).(PC-PLO5)
Students will document information clearly and appropriately in cardiothoracic surgery, including (a) pre-operative evaluations, (b) procedures, (c) post-operative evaluations, (d) discharge instructions, and (e) inpatient evaluations.	
	Cardiothoracic Surgery instructional objective: Document a surgical note for pre-operative, procedure, and post-operative note. (ICS-PLO2)
	Cardiothoracic Surgery instructional objective: Document an inpatient note. (ICS-PLO2)

	Cardiothoracic Surgery instructional objective: Document patient discharge instructions. (ICS-PLO2)
	Cardiothoracic Surgery instructional objective: Document information clearly and accurately at an appropriate level for patients, colleagues, and teachers. (ICS-PLO2)
Students will listen empathetically and effectively, communicate clearly, utilize shared decision-making, and provide patient education and counseling for patients seeking pre-operative, intra-operative, and post-operative care.	
	Cardiothoracic Surgery medicine instructional objective: Utilize open-ended questions, active listening, and empathetic communication to elicit patient preferences, values, goals, and concerns while providing space for patients to fully articulate their thoughts without interruption for patients seeking pre-operative, intra-operative, and post-operative care. (ICS-PLO1)
	Cardiothoracic Surgery medicine instructional objective: Communicate complex medical information clearly and comprehensively, using plain language and avoiding medical jargon, while tailoring the content and delivery to the patient's level of understanding and health literacy for patients seeking pre-operative, intra-operative, and post-operative care. (ICS-PLO3)
	Cardiothoracic Surgery medicine instructional objective: Deliver clear, concise, and well-organized oral case presentations using a structured format, ensuring the inclusion of pertinent patient information to effectively communicate with preceptors and the healthcare team, fostering collaboration and continuity of care. (ICS-PLO3)
	Cardiothoracic Surgery medicine instructional objective: Identify and address communication barriers with diverse patient populations and adapt communication style and information context to ensure understanding, effective interaction, and culturally sensitive care. (ICS PLO-3)

	<p>Cardiothoracic Surgery medicine instructional objective: Collaborate with the patient and family to identify realistic goals, develop a shared understanding of diagnoses and treatment options, and explain the risks and benefits of diagnostic studies and treatments, while demonstrating empathetic listening to clarify misconceptions and address concerns or fears, for patients seeking pre-operative, intra-operative, and post-operative care. (ICS PLO-5)</p>
	<p>Cardiothoracic Surgery instructional objective: Deliver age-appropriate patient-centered education and counseling to patients, including health promotion, disease prevention, and evidence-based written materials tailored to the patient's needs and health literacy, seeking pre-operative, intra-operative, and post-operative care. (ICS-PLO5)</p>
	<p>Cardiothoracic Surgery instructional objective: Demonstrate ability to provide appropriate discharge instructions to a patient. (ICS PLO-3)</p>
	<p>Cardiothoracic Surgery instructional objective: Provide patient-centered counseling that addresses emotional, psychological, and social concerns (ICS-PLO5)</p>
	<p>Cardiothoracic Surgery instructional objective: Assess patient understanding of medical information and treatment plans and address any gaps in comprehension (ICS-PLO3)</p>
<p>Students will facilitate difficult health care conversations regarding pre-operative, intra-operative, and post-operative care.</p>	
	<p>Cardiothoracic Surgery instructional objective: Establish rapport and trust with patients and their family members by demonstrating empathy, active listening, and respect for their emotions, perspectives, and concerns while maintaining professionalism and objectivity. (ICS PLO-4)</p>

	Cardiothoracic Surgery instructional objective: Create a supportive environment conducive to open and honest dialogue, ensuring that the patient and their family feel comfortable expressing their thoughts, emotions, and preferences. (ICS PLO-4)
	Cardiothoracic Surgery instructional objective: Demonstrate sensitivity and cultural competence in addressing sensitive topics, such as end-of-life care, post-operative complications, or difficult treatment decisions, while respecting diverse perspectives and values. (ICS PLO-4)
	Cardiothoracic Surgery instructional objective: Provide emotional support and connect patients and their families with appropriate resources to help them cope with difficult emotions and navigate the healthcare system effectively. (ICS PLO-4)
Students will demonstrate compassion, integrity, respect, patient responsiveness, accountability, and teamwork while providing pre-operative, intra-operative, and post-operative care.	
	Cardiothoracic Surgery instructional objective: Demonstrate empathy, understanding, and compassion, sensitivity to the emotional, social, developmental, cultural, and diverse backgrounds of patients and their families, including age, gender, and disabilities while providing pre-operative, intra-operative, and post-operative care. (P-PLO1)
	Cardiothoracic Surgery instructional objective: Respect patient confidentiality and privacy, ensuring that sensitive information is handled appropriately and securely while providing pre-operative, intra-operative, and post-operative care. (P-PLO1)
	Cardiothoracic Surgery instructional objective: Use inclusive language and cultural sensitivity while providing pre-operative, intra-operative, and post-operative care and interacting with patients and their families to foster trust and respect. (P-PLO1)

	Cardiothoracic Surgery instructional objective: Exhibit professionalism in interactions with patients, families, and healthcare team members, including maintaining appropriate dress, punctual attendance, and a professional attitude in all clinical settings. (P-PLO1)
	Cardiothoracic Surgery instructional objective: Prioritize patient care over personal comfort or preferences, demonstrating a willingness to adjust schedules or extend work hours to accommodate patient needs. (P-PLO2)
	Cardiothoracic Surgery instructional objective: Demonstrate flexibility, attentiveness, and responsiveness in addressing patient concerns and unexpected changes. (P-PLO2)
	Cardiothoracic Surgery instructional objective: Take accountability for actions, decisions, and the quality of care provided, ensuring continuous evaluation and improvement. (P-PLO3)
	Cardiothoracic Surgery instructional objective: Evaluate and integrate community resources to support patient care for patients requiring surgical management. (P PLO-3)
	Cardiothoracic Surgery instructional objective: Demonstrate motivation and desire to learn. (P PLO-3)
	Cardiothoracic Surgery instructional objective: Demonstrate knowledge of the legal and regulatory requirements of the role of a physician assistant. (P-PLO4)
	Cardiothoracic Surgery instructional objective: Exhibit integrity by adhering to ethical standards, acting with honesty, and maintaining professional accountability in all interactions and decisions." (P-PLO1)
Students will (a) seek, implement, and accept feedback, (b) reflect on performance and develop plans for self-improvement, and (c) locate, appraise, and integrate evidence-based studies related to pre-operative, intra-operative, and post-operative care.	

	Cardiothoracic Surgery instructional objective: Proactively seek feedback from their preceptor on clinical performance, communication skills, and professional behavior, demonstrating openness to constructive criticism and willingness to apply it to improve. (PBL PI-PLO1)
	Cardiothoracic Surgery instructional objective: Develop action plans based on feedback including specific goals and timelines for implementation. (PBL PI-PLO1)
	Cardiothoracic Surgery instructional objective: Recognize personal and professional limitations, and locate assistance from preceptors, colleagues, and reference materials to address areas needing improvement. (PBL PI-PLO1)
	Cardiothoracic Surgery instructional objective: Monitor progress towards goals over time, adjusting action plans as necessary based on ongoing reflection and feedback. (PBL PI PLO-2)
	Cardiothoracic Surgery instructional objective: Develop the ability to learn from practice. (PBL PI PLO-2)
	Cardiothoracic Surgery instructional objective: Demonstrate lifelong learning by interpreting independent readings, assessing medical evidence, and applying decision-making tools to provide evidence-based patient care concerning surgical care. (PBL PI-PLO3)
	Cardiothoracic Surgery instructional objective: Recognize the importance of lifelong learning in the surgical field. (PBL PI PLO-3)
	Cardiothoracic Surgery instructional objective: Assess and effectively communicate medical evidence to patients, colleagues, and healthcare teams to support shared decision-making and patient care. (PBL PI PLO-3)

	<p>Cardiothoracic Surgery instructional objective: Utilize medical information technology to access and appraise online medical resources, enhance personal education, support clinical decision-making, and educate patients. (PBL PI PLO-3)</p>
<p>In inpatient and operating room settings, students will (a) promote a safe environment, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions, (d) work effectively with other health professionals to provide collaborative, patient-centered care, (e) incorporate considerations of cost awareness and funding, and (g) describe basic health payment systems and practice models.</p>	
	<p>Cardiothoracic Surgery medicine instructional objective: Operate under the rules of HIPAA to preserve patient confidentiality in an inpatient and operating room setting. (SBP PLO-1)</p>
	<p>Cardiothoracic Surgery instructional objective: Practice according to policy and procedures set forth by the health care facility. (SBP PLO-1)</p>
	<p>Cardiothoracic Surgery instructional objective: Identify barriers and challenges to implementing quality improvement initiatives in an inpatient and operating room setting and propose strategies to overcome them. (SBP PLO-2)</p>
	<p>Cardiothoracic Surgery instructional objective:- Discuss the appropriate use of controlled substances and statewide tracking systems to ensure ethical and legal patient care in inpatient and operating room settings. (SBP PLO-2)</p>
	<p>Cardiothoracic Surgery instructional objective: Encourage a culture of safety and collaboration within the healthcare team by promoting open communication, error reporting, mutual respect, and teamwork while providing patient-centered care in an</p>

	inpatient and operating room setting. (SBP-PLO3)
	Cardiothoracic Surgery instructional objective: Identify the steps of the referral process for patients and the roles of other healthcare professionals in the participation of your patient's care in inpatient and operating room settings. (SBP-PLO3)
	Cardiothoracic Surgery instructional objective: Employ a professional relationship with the preceptors and other healthcare team members in inpatient and operating room settings. (SBP-PLO4)
	Cardiothoracic Surgery instructional objective: Efficiently manage patient flow and patient scheduling to optimize access to care and minimize wait times for patients seeking care in inpatient and operating room settings. (SBP-PLO5)
	Cardiothoracic Surgery instructional objective: Communicate effectively with administrative staff, medical assistants, and other members of the healthcare team to coordinate patient care activities and ensure smooth health care operations in inpatient and operating room settings. (SBP-PLO4, SBP-PLO5)
	Cardiothoracic Surgery instructional objective: Evaluate cost-effective_healthcare resources that do not compromise the quality of care for patients in inpatient and operating room settings. (SBP PLO-6)
	Cardiothoracic Surgery instructional objective: Discuss treatment options for patient care in an unbiased manner, considering both clinical effectiveness and cost implications and involving patients in shared decision-making in inpatient and operating room settings. (SBP PLO-6)

	Cardiothoracic Surgery instructional objective: Educate patients about potential out-of-pocket expenses, insurance coverage limitations, and available resources for financial assistance or cost savings programs. (SBP PLO-6)
	Cardiothoracic Surgery instructional objective: Describe common practice models in inpatient and operating room settings. (SBP PLO-6)
	Cardiothoracic Surgery instructional objective: Demonstrate an understanding of the roles and responsibilities of PAs and other healthcare professionals in inpatient and operating room settings. (SBP PLO-6)
	Cardiothoracic Surgery instructional objective: Choose appropriate billing codes for payment services under the direct supervision of the preceptor in inpatient and operating room settings. (SBP-PLO7)
	Cardiothoracic Surgery instructional objective: Identify funding sources and payment systems, including eligible patient populations for Medicaid and Medicare in inpatient and operating room settings. (SBP-PLO7)
	Cardiothoracic Surgery instructional objective: Communicate effectively with surgical team members to ensure smooth coordination and optimal patient care during the procedure. (SBP-PLO4, SBP-PLO5)

Cardiothoracic Surgery Rotation Curriculum Integration Table

Rotation Learning Outcome	Assessment Method (Benchmark Requirements)	PAS Program Goal	PAS Program Learning Outcome (ARC-PA)/Student Learning Outcomes (GVSU)
Students will demonstrate medical knowledge of the pathophysiology, etiology, epidemiology, patient presentation, differential diagnosis, diagnostic work-up, patient management, health promotion, and disease prevention for common conditions (listed in Cardiothoracic Surgery Clinical Rotation Topics above) for patients seeking pre-operative, intra-operative, and post-operative care.	Preceptor Evaluation (80% average score on Medical Knowledge competency section)	Medical Knowledge and Competence in Patient Care	MK #2
	MK#3		
Students will elicit a detailed and accurate patient history, perform an appropriate physical examination (including but not limited to a pre-procedure/surgical consent, pre-operative H&P, post-operative evaluation, and inpatient evaluation), appropriately use and interpret diagnostic testing and laboratory studies, and formulate differential diagnoses and assessment plans for symptoms/conditions (listed in Cardiothoracic Surgery Clinical Rotation Topics above) commonly	Preceptor Evaluation (80% average score on Patient Care competency section)	Medical Knowledge and Competence in Patient Care	PC #1
			PC #2
			PC #3
			PC #4

encountered in patients seeking in an (a) inpatient setting and (b) operating room setting (including pre-operative, intra-operative, and post-operative care).			
Students will perform the following technical skill: proper surgical scrub technique.	Preceptor Evaluation (80% average score on Patient Care competency section)	Medical Knowledge and Competence in Patient Care	PC #5
Students will document information clearly and appropriately in cardiothoracic surgery, including (a) pre-operative evaluations, (b) procedures, (c) post-operative evaluations, (d) discharge instructions, and (e) inpatient evaluations.	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Medical Knowledge and Patient Care	ICS#2
Students will listen empathetically and effectively, communicate clearly, utilize shared decision-making, and provide patient education and counseling for patients seeking pre-operative, intra-operative, and post-operative care.	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Medical Knowledge and Patient Care	ICS #1
		Collaborative Practice	ICS #3
		Collaborative Practice	ICS #5
Students will facilitate difficult health care conversations regarding pre-operative, intra-operative, and post-operative care.	Preceptor Evaluation (80% average score on Interpersonal and Communication Skills competency section)	Collaborative Practice	ICS #4
Students will demonstrate compassion, integrity, respect, patient responsiveness, accountability, and teamwork while providing pre-	Preceptor Evaluation (80% average score on Professionalism competency section)	Professionalism	P #1
			P #2
			P #3

operative, intra-operative, and post-operative care.				
Students will (a) seek, implement, and accept feedback, (b) reflect on performance and develop plans for self-improvement, and (c) locate, appraise, and integrate evidence-based studies related to pre-operative, intra-operative, and post-operative care.	Preceptor Evaluation (80% average score on Practice-Based Learning and Proficiency Improvement competency section)	Lifelong Learning	PBLPI #1	
In inpatient and operating room settings, students will (a) promote a safe environment, (b) demonstrate knowledge of quality improvement methodologies and metrics, (c) recognize the unique role of PAs and other health professions, (d) work effectively with other health professionals to provide collaborative, patient-centered care, (e) incorporate considerations of cost awareness and funding, and (g) describe basic health payment systems and practice models.	Preceptor Evaluation (80% average score on Systems-Based Practice competency section)		PBLPI #2	
			PBLPI #3	
	Medical Knowledge and Patient Care	SBP #1		
		SBP #6		
		Lifelong Learning		
		SBP #2		
		Collaborative Practice		
		SBP #3		
		SBP #4		
		SBP #5		
		SBP #7		

Cardiothoracic Surgery Preceptor Evaluation of the Student

Cardiothoracic Surgery Preceptor Evaluation of the Student						
What is your group and/or site name (i.e., Corewell Health Greenville Hospital Multispecialty Center - Oak St, Family Medicine)						
Medical Knowledge: This section evaluates the student's ability to demonstrate medical knowledge, clinical reasoning, and problem-solving ability of sufficient breadth and depth to practice medicine as an entry-level physician assistant.						
	60%	70%	80%	90%	100%	N/A
	(Failing)	(D+/ C-)	(C+/ B)	(B+/ A-)	(A)	
Student demonstrated medical knowledge in pathophysiology, etiology, and epidemiology for patients seeking care for common conditions encountered in cardiothoracic surgery, including (MK#2, 3):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student demonstrated medical knowledge of patient presentations for patients seeking care for common conditions encountered in cardiothoracic surgery, including (MK#2,3):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student demonstrated medical knowledge of differential diagnosis for patients seeking care for common conditions encountered in cardiothoracic surgery, including (MK#2,3):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student demonstrated medical knowledge of the diagnostic work-up for patients seeking care for common conditions encountered in cardiothoracic surgery, including (MK#2,3):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student demonstrated medical knowledge of patient management strategies for patients seeking care for common conditions encountered in cardiothoracic surgery, including (MK#2,3):						
Pre-operative care						
Intra-operative care						
Post-operative care						

Student demonstrated medical knowledge of health promotion and disease prevention for patients seeking care for common conditions encountered in cardiothoracic surgery, including (MK#2, 3):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Additional Comments:						
Patient Care: This section evaluates the student's ability to provide person-centered care that includes patient- and setting-specific assessment, evaluation, management, and health promotion.						
	60%	70%	80%	90%	100%	N/A
	(Failing)	(D+/ C-)	(C+/ B)	(B+/ A-)	(A)	
Student elicited a detailed and accurate history for patients seeking care in an inpatient and operating room setting, including (PC#1):						
Inpatient care						
Pre-operative care						
Post-operative care						
Student performed an appropriate physical examination for patients seeking care in an inpatient and operating room setting, including (PC#1):						
Inpatient care						
Pre-operative care						
Post-operative care						
Student demonstrated knowledge of the appropriate use and interpretation of diagnostic testing for patients seeking care in an inpatient and operating room setting, including (PC#3):						
Inpatient care						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student demonstrated knowledge of the appropriate use and interpretation of laboratory studies for patients seeking care in an inpatient and operating room setting, including (PC#3):						
Inpatient care						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student organized information from the interview, diagnostic testing, and physical examination to formulate differential diagnoses for patients seeking care in an inpatient and operating room setting, including (PC#4):						
Inpatient care						

Pre-operative note						
Procedure note						
Post-operative note						
Inpatient note						
Discharge instructions						
Student listened empathetically and effectively to patients seeking surgical care, including (ICS#1):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student communicated information clearly to patients seeking surgical care, including (ICS#3):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student utilized shared decision making for patients seeking surgical care, including (ICS#5):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student provided patient education and counseling for patients seeking surgical care, including (ICS#5):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student facilitated difficult health care conversations for patients seeking surgical care, including (ICS#4):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Additional Comments:						
Professionalism: This section evaluates the student's ability to demonstrate commitment to carrying out professional responsibilities and adhering to ethical principles and practices while providing pre-operative, intra-operative, and post-operative care.						
	60%	70%	80%	90%	100%	N/A
	(Failing)	(D+/C-)	(C+/B)	(B+/A-)	(A)	
Student demonstrated compassion, integrity, and respect to patients seeking care in surgery, including (P#1):						
Pre-operative care						

Intra-operative care						
Post-operative care						
Student demonstrated patient responsiveness while providing care to patients seeking care in surgery, including (P#2):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student showed accountability while providing care to patients seeking care in surgery, including (P#3):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Additional Comments:						
Practice-Based Learning and Proficiency Improvement: This section evaluates the student's ability to acquire, appraise, and apply evidence-based medicine to patient care and accurately assess and improve clinical performance based on constant self-evaluation and lifelong learning.						
	60%	70%	80%	90%	100%	N/A
	(Failing)	(D+/ C-)	(C+/ B)	(B+/ A-)	(A)	
Student sought, implemented, and accepted feedback related to surgery, including (PBLPI#1)						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student reflected on their performance to identify strengths and deficiencies in their knowledge and expertise and develop a plan for self-improvement related to surgery, including (PBLPI#2):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Student located, appraised, and integrated evidence-based studies related to surgery, including (PBLPI#3):						
Pre-operative care						
Intra-operative care						
Post-operative care						
Additional Comments:						
Systems-Based Practice: This section evaluates the student's ability to engage with other healthcare professionals in a manner that optimizes care within the context of the larger healthcare system.						
	60%	70%	80%	90%	100%	N/A

	(Failing)	(D+/C-)	(C+/B)	(B+/A-)	(A)	
Student promoted a safe environment for patients seeking care in the following settings: (SBP#1)						
Inpatient setting						
Operating room setting						
Student demonstrated knowledge of quality improvement methodologies and metrics for the following care settings: (SBP#2)						
Inpatient setting						
Operating room setting						
Student recognized the unique roles of PAs and those of other healthcare professions in the following settings: (SBP#3)						
Inpatient setting						
Operating room setting						
Student worked effectively with other health professionals to provide collaborative, patient-centered care in the following settings: (SBP#4)						
Inpatient setting						
Operating room setting						
Student worked effectively in the following settings: (SBP#5)						
Inpatient setting						
Operating room setting						
Student incorporated considerations of cost awareness and funding sources into patients seeking care in the following settings: (SBP#6)						
Inpatient setting						
Operating room setting						
Student described basic health payment systems and practice models for the following settings (SBP#7)						
Inpatient setting						
Operating room setting						
Additional Comments:						

Did the student have any absences during the rotation?

Yes

No

If yes, please indicate dates and reason for absence:

Please write a short note commenting on this student's particular strengths.

Please write a short note commenting on this student's particular areas for improvement.

Was this evaluation discussed with the student?

Yes

No

Additional comments

Preceptor Signature: