

**LEARNING OBJECTIVES: EL SURGERY CARDIAC TRANSPLANTATION/CARDIAC ASSIST DEVICE ELECTIVE**

Overarching Goals of Curriculum	Elective objectives: By the end of the rotation, students will be expected to:	Where/how taught	Taught by	How student's achievement of objective is assessed	How feedback is given	Quantity target
1, 2, 3, 4, 5, 6	<p>1. <b>History skills:</b> Gather the important information that is needed for the cardiac history and complete a history in the medical record for at least 1 patient.</p> <p>a. The student should name all the routine questions that are involved in taking a history of heart disease and why they are being asked.</p>	CT-ICU; operating room; and step-down unit	Cardiac surgeons; ICU attendings; and senior cardiac surgical residents	Direct evaluation of presentation.	Immediate verbal feedback.	1
1, 2, 3, 4, 5	<p>2. <b>Physical examination skills:</b> Complete a pertinent physical examination for the evaluation of cardiac transplantation on at least 1 patient. The student should demonstrate the ability to perform this pertinent physical examination while being observed by at least one attending or resident.</p> <p>a. The student should know how to differentiate chest x-rays and CT scans.</p> <p>b. The student should be able to explain each part of the physical examination of the heart, why it is being performed and what abnormalities are being sought.</p>	CT-ICU; operating room; and step-down unit	Cardiac surgeons; ICU attendings; and senior cardiac surgical resident	Direct observation of examination.	Immediate verbal feedback.	1
1, 2, 3, 4, 5, 6, 7, 8	<p>3. <b>Knowledge/diagnostic and treatment skills:</b> Know about common pediatric critical care conditions, for example:</p> <p>a. Know the 3 most likely causes of <u>coronary artery disease, aortic stenosis, and mitral insufficiency</u>) and the mechanism for each.</p> <p>b. Name at least 3 laboratory tests to evaluate each of these conditions.</p> <p>c. Describe the first line therapy for each of these conditions.</p>	CT-ICU; operating room; and step-down unit	Cardiac surgeons; ICU attendings; and senior cardiac surgical resident	Direct observation of examination.	Immediate verbal feedback.	10

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4	<p>4. <b>Procedural skills:</b> Perform chest x-ray and CT scan on at least 10 patients.</p> <ul style="list-style-type: none"> <li>a. The student should know the key indications for the procedure.</li> <li>b. The student should be observed and get feedback on the performance of the procedure on at least one occasion.</li> </ul>	CT-ICU; operating room; and step-down unit	Cardiac surgeons; ICU attendings; and senior cardiac surgical resident	Direct observation of examination.	Immediate verbal feedback; Written feedback at end of rotation.	10
4, 5, 6	<p>5. <b>Attitude:</b> Demonstrate professional responsibility in working as a team member with other members of the cardiac surgery care team, patients and families.</p> <ul style="list-style-type: none"> <li>a. The student should exhibit sensitivity to the particular psychosocial issues faced by patients undergoing cardiac surgery and their families.</li> <li>b. The student should exhibit honesty, accuracy and integrity in all interactions with patients, families, colleagues and others.</li> </ul>	CT-ICU; operating room; and step-down unit	Cardiac surgeons; ICU attendings; and senior cardiac surgical resident	Direct observation.	Immediate verbal feedback.	N/A
5, 6, 8	<p>6. <b>Career/context:</b> Know the training/career pathway for cardiac surgery.</p> <ul style="list-style-type: none"> <li>a. Know 3 aspects of career satisfaction in this specialty.</li> <li>b. Know key roles that the specialty plays in the health care system.</li> </ul>	CT-ICU; operating room; and step-down unit	Cardiac surgeons; ICU attendings; and senior cardiac surgical resident	One on one meeting with cardiac surgeons.	Immediate verbal feedback.	N/A