

Introductory Pediatric Cardiac Anesthesia Curriculum Goals and Objectives

GOALS	OBJECTIVES	INSTRUCTIONAL ACTIVITIES	EVALUATIONS
<p>Knowledge: To acquire knowledge of basic and applied clinical sciences that relate to the practice of pediatric cardiac anesthesia.</p>	<p>To Understand:</p> <ol style="list-style-type: none"> 1. Essentials of a pediatric cardiac history and PE. 2. Basic principles of pediatric airway management for patients with congenital cardiac lesions: 3. Basic cardiovascular and cardiorespiratory physiology and interactions. 4. Commonly used pharmacology including induction, dosing and side effects of common anesthesia drugs in pediatric cardiac patients. 5. Management of fluids and electrolyte in pediatric cardiac patients. 6. Basic principles of acute pain management in patients with congenital cardiac lesions. 7. Basic physiologic and anesthetic principles for management of patients with cyanotic lesions and single ventricle physiology. 8. Essentials of reading a basic echocardiogram. 9. Management of patients undergoing cardiopulmonary bypass. 	<ol style="list-style-type: none"> 1. Individual instruction in the OR, cath lab, and ICU 2. pre-anesthetic evaluations 3. weekly cardiac cath conference 4. bi-weekly cardiac M & M conference 5. weekly lectures by cardiologists, intensivists, and CT surgeons 	<p>Monthly EValue evaluations:</p>

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<p>Patient Care: To achieve a level of assisted competence in basic anesthetic management of children and adults with repaired and unrepaired congenital cardiac physiology.</p>	<p>To Acquire Skills in:</p> <ol style="list-style-type: none">1. Basic mask airway management2. Basic principles of safe induction in stable and unstable patients with congenital cardiac lesions.3. Securing peripheral IV access in children.4. Securing arterial line access in children.5. Securing central line access in children.6. Insertion of transesophageal echo probe in children7. Management of patients undergoing cardiopulmonary bypass.	<ol style="list-style-type: none">1. Individual OR instruction.	<p>Monthly EValue evaluations.</p>
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<p>Effective Communication:</p> <ol style="list-style-type: none"> 1. To understand differences in communication styles and cognitive understanding of pediatric patients. 2. To be able to communicate the risks and benefits of anesthesia to parents of patients with congenital cardiac disease. 	<p>To understand:</p> <ol style="list-style-type: none"> 1. Age related developmental cognitive differences in children. 2. Techniques to decrease pediatric patient anxiety. 3. Parental concerns for their child's safety and wellbeing under anesthesia and communicate with them regarding these issues. 	<ol style="list-style-type: none"> 1. Modeling by pediatric anesthesia faculty. 	<p>Patient/parent combination cards.</p>
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<p>Practice based learning: To critically evaluate a resident's own performance and factors that relate to desired clinical outcomes and advisor events.</p>	<p>To gain an understanding of: 1. Common medical complications and mishaps in pediatric anesthesia. 2. To compare these mishaps and complications with those that occur in the adult population.</p>	<p>1. Individual case management discussions.</p>	<p>Case management questionnaires.</p>
<p>Professionalism: 1. To be familiar with principles of informed consent for pediatric patients. 2. To communicate effectively and professionally with other healthcare providers in the pediatric setting.</p>	<p>To understand: 1. Issues of legal guardianship in informed consent discussions. 2. To use communication skills with nurses and other health care workers who are involved in the care of pediatric patients.</p>	<p>1. Modeling by faculty.</p>	<p>RN communication evaluation cards. Monthly evaluations.</p>