

## Pediatric Pain Rotation for Pediatric Anesthesia Fellows

**Overview:** While on the pediatric pain rotation, the pediatric anesthesia fellow will gain experience in the management of infants, children, and adolescents with pediatric acute and chronic pain conditions in the inpatient setting.

Emphasis during this rotation is placed upon developing and expanding a fellow's knowledge and skill so that they can develop, implement, manage, and evaluate a perioperative interdisciplinary pain management plan. As a member of the inpatient pain service, the fellow will refine their communication and teaching skills through education and follow-up with consulting and referring subspecialty and primary services. Exposure to ongoing clinical research offers the opportunity to advance knowledge in the field.

GOALS	OBJECTIVES	INSTRUCTIONAL ACTIVITY	EVALUATION
<p><b>Knowledge:</b> Acquire knowledge of basic and applied medical sciences that pertain to pediatric analgesia, and to be able to apply this knowledge when making a pain management plan</p>	<p>Learn the principles of the following:</p> <ol style="list-style-type: none"> <li>1. Assessment of pain in the different pediatric age groups;</li> <li>2. Patient controlled analgesia;</li> <li>3. Continuous intravenous opioid administration;</li> <li>4. Adjuvant medications;</li> <li>5. Transitioning from parenteral analgesics to oral analgesics;</li> <li>6. Continuous neuraxial blockade;</li> <li>7. Neuraxial opioid administration;</li> <li>8. Neuraxial adjuvant administration (including clonidine and epinephrine)</li> </ol>	<ul style="list-style-type: none"> <li>• Clinical care, bedside training and patient rounds</li> <li>• Faculty interaction</li> <li>• Guided and independent reading</li> </ul>	<ul style="list-style-type: none"> <li>• Faculty evaluation in MedHub</li> <li>• Case logs</li> </ul>
<p><b>Patient Care:</b> Recognize, prevent, and treat pain in medical and surgical patients of all ages</p>	<ol style="list-style-type: none"> <li>1. Plan and implement effective analgesia for children with medical and surgical pain.</li> <li>2. Perform a comprehensive history and physical examination, and capture relevant elements of the psychosocial history.</li> <li>3. Formulate a plan for multidisciplinary pain management including, where appropriate, the use of               <ol style="list-style-type: none"> <li>a. Pharmacologic analgesics;</li> <li>b. Peripheral and neuraxial nerve blocks;</li> <li>c. Psychotherapy;</li> <li>d. Physical therapy;</li> <li>e. Non-pharmacologic techniques including biofeedback and acupuncture.</li> </ol> </li> </ol>	<ul style="list-style-type: none"> <li>• Observe then provide mentored consultation in gathering diagnostic information, making analgesic plans for acute and chronic pain conditions.</li> </ul>	<ul style="list-style-type: none"> <li>• Attending feedback</li> <li>• Faculty evaluation in MedHub</li> <li>• Case logs</li> </ul>

	<p>4. Coordinate care of patients with primary service and mental health services as needed.</p> <p>5. Attend interdisciplinary patient care conferences.</p> <p>6. Coordinate transition from inpatient care to outpatient care utilizing appropriate community resources as needed.</p>		
<p><b>Practice based Learning:</b></p> <p>1. Analyze one's own practice systematically and be able to retrieve, understand and apply scientific evidence related to the practice of pediatric pain management.</p> <p>2. Participate in the learning of fellows, residents, medical students, physician colleagues, and other healthcare professionals.</p>	<p>1. Be able to identify and analyze areas of one's practice that need improvement or can serve as examples for others.</p> <p>2. Be able to critically analyze one's practice in light of current scientific and biomedical knowledge related to pediatric pain management</p> <p>3. Participate in focused education on pediatric pain topics</p>	<ul style="list-style-type: none"> <li>• Utilize one or more of the following, on a selected pain topic of interests:</li> <li>• Problem based learning discussions</li> <li>• Case Presentation</li> <li>• M and M conferences</li> <li>• Pain management conferences</li> <li>• Library resources</li> <li>• Journal Club</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion on rounds with faculty</li> <li>• Faculty evaluation in MedHub</li> <li>• Monthly evaluation and participant feedback at time of presentation</li> </ul>
<p><b>Professionalism:</b></p> <p>Adhere to ethical principles; understand and apply basic principles of biomedical ethics</p>	<p>1. Demonstrate compassion and respect for patients, families, and other health care professionals</p> <p>2. Demonstrate sensitivity to individuals of diverse socio-economic and cultural backgrounds</p>	<p>Observation of members of patient care team, follow up discussions</p>	<p>Feedback on rounds</p> <p>Faculty evaluation in MedHub</p>
<p><b>Communication:</b></p> <p>Demonstrate effective verbal and written communication skills</p> <p>Work as an effective and efficient member of the patients team</p>	<p>1. Communicate care plans clearly, concisely and in a timely fashion to appropriate members of the care team including patient, family, and health care professionals across broad socio-economic and cultural domains</p> <p>2. Work cooperatively and collaboratively with patients, families, and health professionals</p> <p>3. Maintain appropriate, timely, and accurate medical records</p>	<ul style="list-style-type: none"> <li>• Observe patient care team communication with patients, families and health care professionals, follow up discussions</li> <li>• Review medical record documents and communication prior to patient follow-up</li> </ul>	<ul style="list-style-type: none"> <li>• Attending feedback and discussion</li> <li>• Patient and family evaluation cards</li> </ul>
<p><b>Systems based learning:</b></p> <p>To understand the practice of pediatric pain management in relation to the larger context of health care organization, and be able to utilize available resources to optimize patient care.</p>	<p>1. Explore methods of cost analysis and cost containment as it relates to patient care</p> <p>2. Consistently employ quality assurance and improvement techniques in professional work</p> <p>3. Work collaboratively with others to improve health care procedures and systems to positively impact patient care</p>	<ul style="list-style-type: none"> <li>• Discuss billing procedure with pain attending and complete billing forms for review/discussion</li> <li>• Attend weekly journal club and case conferences</li> </ul>	<p>Faculty evaluation in MedHub</p>