

PEDIATRIC CRITICAL CARE

Competency Based Goals and Objectives

COMPETENCY 1. Patient Care. Provide family centered patient care that is developmentally and age appropriate, compassionate, and effective for the treatment of health problems and the promotion of health.

1. Obtain a good history and physical examination and utilize diagnostic studies and medical records to gather essential and accurate information in a critically ill patient.
2. Integrate data obtained from the history, physical, and laboratory to construct a problem list, develop a prioritized, differential diagnosis along with therapeutic, diagnostic, and patient education plans for a critically ill child.
3. Describe and perform medical procedures that are integral to the care of intensive care unit patients.
4. Recognize and describe appropriate initial therapies for emergencies and life-threatening situations
5. Develop and implement care plans for ICU patients.
6. Counsel patients and families in a supportive manner so they can understand their/their child's illness or injury and its treatment, share in decision-making, and give informed consent.
7. Provide effective preventive health care and anticipatory guidance to patients and families as indicated in the ICU setting.

COMPETENCY 2. Medical Knowledge. Understands the scope of established and evolving biomedical, clinical, epidemiological and social-behavior knowledge needed by a pediatrician; demonstrates the ability to acquire, critically interpret and apply this knowledge in patient care.

1. Demonstrate efficient access to the knowledge base needed for effective care of critically ill children (e.g., information on the web, in the literature, text books, or PDAs).
2. Recognize the limits of one's knowledge and expertise by seeking information needed to answer clinical questions and using consultants and referrals appropriately. Use this process to guide life-long learning plans.
3. Know oxygen delivery systems, indications for/types of artificial airways.
4. Define respiratory failure/potential failure; demonstrates how to adjust ventilator parameters and know extubation criteria; noninvasive interventions (BiPaP, heliox and NO)
5. Know indications for/demonstrates expertise of parenteral/enteral nutrition, transfusion of blood products, renal replacement therapies.
6. Manage respiratory compromise (positioning, oral/nasal/ airways, oxygen, bronchodilators, when/how to intubate), increased intracranial pressure, status epilepticus/seizures, circulatory insufficiency.
7. Know evaluation/differential of altered mental status; appropriate assessment/interventions; indications for pain/sedative/paralytic; different classes of analgesics/sedative risk/benefits

8. Recognize cardiovascular insufficiency by evaluating pulses, refill, dysrhythmia, blood pressure; knows interventions and methods of monitoring
9. Is familiar with ethical and medical-legal considerations: futility, withdrawal and withholding of care, brain death, organ donation, ethics consultation, coroners office.

COMPETENCY 3. Interpersonal Skills and Communication Skills. Demonstrate interpersonal and communication skills that result in information exchange and partnering with patients, their families and professional associates

1. Communicate effectively in a developmentally appropriate manner with critically ill patients and their families to create and sustain a professional and therapeutic relationship across the broad range of socioeconomic, religious and cultural backgrounds
2. In cases of serious and life-threatening disease, counsel the patient's family with sensitivity to their beliefs related to advanced life support or withholding of care considering quality of life issues.
3. Communicate effectively with physicians, other health care professionals, and health related agencies about patients in the ICU setting.
4. Develop effective approaches for teaching students, colleagues, other professionals, and lay groups about critically ill children and potential outcomes.
5. Provide effective consultation to other physicians (surgeons, subspecialists) and health professionals involved in the care of the ICU patient
6. Maintain comprehensive, timely, and legible medical records with clear management plan

COMPETENCY 4. Practice-based Learning and Improvement. Demonstrate knowledge, skills and attitudes needed for continuous self-assessment, using scientific methods and evidence to investigate, evaluate, and improve one's patient care practice.

1. Identify and use resources, including the application of technology to obtain up-to-date information that alters ones practice in the care of pediatric ICU patients.
2. Locate, appraise, and assimilate evidence from scientific studies related to health problems of one's patients in the ICU.
3. Analyze one's practice experience to recognize one's strengths, deficiencies and limits in knowledge and expertise in the care of critically ill or injured patients.

COMPETENCY 5. Professionalism. Demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to diversity.

1. Demonstrate respect for confidentiality, commitment, responsibility, accountability for patient care, including continuity of care
2. Demonstrate honesty and integrity in one's professional duties in the ICU.
3. Consistently use compassion and empathy in one's role as a physician. Maintain professional boundaries in one's dealings with patients, family, staff and professional colleagues in the ICU setting.

4. Work collaboratively, as a member of a healthcare team, including nurses, dietitians, social service workers, and other personnel in providing pediatric critical care services.
5. Advocate the interests of patients over personal interests while developing an appropriate balance between personal and professional beliefs and obligations during a rotation in the ICU.
6. Recognize the limits of one's knowledge, skills, and tolerance for fatigue and stress by asking for help as needed.

COMPETENCY 6. Systems-Based Practice. Understand how to practice quality health care and advocate for patients within the context of the health care system.

1. Practice cost-effective health care and resource allocation in the ICU setting that does not compromise quality of care
2. Interface appropriately with established plans of care for chronically ill children in the ICU
3. Coordinate plans with the multiple consultants involved in the care of the critically ill or injured patient
4. Advocate for promotion of health and disease/injury prevention by involving social workers/DCFS, educators, dietitians and child life
5. Demonstrate ability to work with health care, managers/discharge planners, nurse specialists, rehabilitation specialists (OT, PT, speech) in the ICU to assess, coordinate, and improve patient care