

## **Pediatric Readiness in the Emergency Department**

This checklist is based on the American Academy of Pediatrics (AAP), American College of Emergency Physicians (ACEP), and Emergency Nurses Association (ENA) 2018 joint policy statement "Pediatric Readiness in the Emergency Department." Use this tool to check if your hospital emergency department (ED) has the most critical components listed in the joint policy statement.

Administration and Coordination	ED Policies, Procedures, and Protocols
of the ED for the Care of Children	Policies, procedures, and protocols for the emergency care of children. These policies may be integrated into overall ED policies
Physician Coordinator for Pediatric Emergency Care (PECC)*  • Board certified/eligible in EM or PEM (preferred but not	as long as pediatric-specific issues are addressed.
required for resource limited hospitals)  The physician PECC is not board certified in EM or PEM but	<ul><li>Illness and injury triage</li><li>Pediatric patient assessment and reassessment</li></ul>
meets the qualifications for credentialing by the hospital as an emergency clinician specialist with special training	Identification and notification of the responsible provider of abnormal pediatric vital signs
and experience in the evaluation and management of the critically ill child.	Immunization assessment and management of the under-immunized patient
Nurse Coordinator for Pediatric Emergency Care (PECC)*	Sedation and analgesia, for procedures including medical imaging
<ul><li>CPEN/CEN (preferred)</li><li>Other credentials (e.g., CPN, CCRN)</li></ul>	Consent, including when parent or legal guardian is not immediately available
* An advanced practice provider may serve in either of	Social and behavioral health issues  Physical or chemical restraint of patients
these roles. Please see the guidelines/toolkit for further definition of the role(s).	Child maltreatment reporting and assessment
	Death of the child in the ED  Do not resuscitate (DNR) orders
Physicians, Advanced Practice Providers	Children with special health care needs
(APPs), Nurses, and Other ED Healthcare	Family and guardian presence during all aspects of
Providers	emergency care, including resuscitation  Patient, family, guardian, and caregiver education
Healthcare providers who staff the ED have periodic pediatric-	Discharge planning and instruction
specific competency evaluations for children of all ages. Areas of	Bereavement counseling
pediatric competencies include any/all of the following:	Communication with the patient's medical home
<ul> <li>Assessment and treatment (e.g., triage)</li> </ul>	or primary care provider as needed
Medication administration	Telehealth and telecommunications
<ul> <li>Device/equipment safety</li> <li>Critical procedures</li> <li>Resuscitation</li> </ul>	All-Hazard Disaster Preparedness
Trauma resuscitation and stabilization	The written all-hazard disaster-preparedness plan addresses
Disaster drills that include children	pediatric-specific needs within the core domains including:
<ul> <li>Patient- and family-centered care</li> <li>Team training and effective communication</li> </ul>	Medications, vaccines, equipment, supplies and trained providers for children in disasters
Guidelines for the QI/PI in the ED	Pediatric surge capacity for injured and non-injured children
Guidelines for the Gi/Pi III the ED	Decontamination, isolation, and quarantine of families and
☐ The QI/PI plan includes pediatric-specific indicators	children of all ages  Minimization of parent-child separation
Data are collected and analyzed	Tracking and reunification for children and families
<ul> <li>System changes are implemented based on performance</li> <li>System performance is monitored over time</li> </ul>	Access to specific behavioral health therapies and social services for children
Please see the guidelines/toolkit for additional details.	Disaster drills include a pediatric mass casualty incident at least every two years

Care of children with special health care needs

## **Evidence-Based Guidelines** Guidelines for Medication, **Equipment, and Supplies** Evidence-based clinical pathways, order sets or decision support available to providers in real time Pediatric equipment, supplies, and medications are appropriate for children of all ages and sizes (see list below), and are easily **Interfacility Transfers** accessible, clearly labeled, and logically organized. ED staff is educated on the location of all items Written pediatric interfacility transfer agreements Daily method in place to verify the proper location and function of pediatric equipment and supplies Written pediatric interfacility transfer guidelines. Medication chart, length-based tape, medical software, or These may include: other systems is readily available to ensure proper sizing of Criteria for transfers (e.g., specialty services) resuscitation equipment and proper dosing of medications • Criteria for selection of appropriate transport service Standardized chart or tool used to estimate weight in Process for initiation of transfer kilograms if resuscitation precludes the use of a weight scale • Plan for transfer of patient information (e.g., length-based tape) Integration of family-centered care Integration of telehealth/telecommunications **Medications Guidelines for Improving Patient Safety** Analgesics (oral, intranasal, and parenteral) Anesthetics (eutectic mixture of local anesthetics; Pediatric patient and medication safety needs are addressed in lidocaine 2.5% and prilocaine 2.5%; lidocaine, epinephrine, the following ways: and tetracaine; and LMX 4 [4% lidocaine]) Children are weighed in kilograms only Anticonvulsants (benzodiazepines, levetiracetam, valproate, Weights are recorded in kilograms only For children who require emergency stabilization, a carbamazepine, fosphenytoin, and phenobarbital) Antidotes (common antidotes should be accessible standard method for estimating weight in kilograms is used to the ED, e.g., naloxone) (e.g., a length-based system) Antipyretics (acetaminophen and ibuprofen) Infants and children have a full set of vital signs recorded Antiemetics (ondansetron and prochlorperazine) · A full set of vital signs includes temperature, heart rate, Antihypertensives (labetalol, nicardipine, and sodium respiratory rate, pulse oximetry, blood pressure, pain, and nitroprusside) mental status when indicated in the medical record Antimicrobials (parenteral and oral) CO<sub>2</sub> monitoring for children of all ages Antipsychotics (olanzapine and haloperidol) Process for safe medication delivery that includes: Prescribing Benzodiazepines (midazolam and lorazepam) Bronchodilators Administration Calcium chloride and/or calcium gluconate Disposal Corticosteroids (dexamethasone, methylprednisolone, Pre-calculated drug dosing and formulation guides and hydrocortisone) 24/7 access to interpreter services in the ED Cardiac medications (adenosine, amiodarone, Timely tracking and reporting of patient safety events atropine, procainamide, and lidocaine) **Guidelines for ED Support Services** Hypoglycemic interventions (dextrose, oral glucose) Diphenhydramine Epinephrine (1mg/mL and 0.1 mg/mL solutions) Medical imaging capabilities and protocols address age- or Furosemide weight-appropriate dose reductions for children Glucagon All efforts made to transfer completed images when a patient Insulin is transferred from one facility to another Magnesium sulfate Collaboration with radiology, laboratory and other ED Intracranial hypertension medications (mannitol, 3% support services to ensure the needs of children in the hypertonic saline) community are met Neuromuscular blockers (rocuronium and succinylcholine) Sucrose solutions for pain control in infants Please see the guidelines/toolkit for additional details Sedation medications (midazolam, etomidate and ketamine) Sodium bicarbonate (4.2%) Vasopressor agents (dopamine, epinephrine and norepinephrine) Vaccines (tetanus)

Equipment/Supplies: General Equipment	Equipment/Supplies: Respiratory	
Patient warming device (infant warmer)  IV blood and/or fluid warmer  Restraint device  Weight scale, in kilograms only (no opportunity to weigh or report in pounds), for infants and children  Tool or chart that relies on weight (kilograms) used to assist physicians and nurses in determining equipment size and correct drug dosing (by weight and total volume)  Pain scale assessment tools that are appropriate for age  Rigid boards for use in CPR  Pediatric-specific AED pads  Atomizer for intranasal administration of medication  Equipment/Supplies: Vascular Access	Endotracheal tubes  uncuffed 2.5 mm uncuffed 3.0 mm cuffed or uncuffed 3.5 mm cuffed or uncuffed 4.0 mm cuffed or uncuffed 4.5 mm cuffed or uncuffed 5.0 mm cuffed or uncuffed 5.5 mm cuffed or uncuffed 5.5 mm feeding tubes fr 8F Laryngoscope blades	Stylets for endotracheal tubes  pediatric infant  Suction catheters infant (6-8F) child (10-12F)  Rigid suction device pediatric  Bag-mask device, self-inflating infant (250 ml) child (450-500 ml)  Non-rebreather masks infant
Arm boards   infant   child    Catheter-over-the-needle device   22 gauge   24 gauge     Intraosseous needles or device   pediatric   IV administration sets with calibrated chambers and extension tubing and/or infusion devices with the ability to regulate the rate and volume of infusate (including low volumes)  IV solutions   Normal saline   Dextrose 5% in 0.45% normal saline	straight: 0 straight: 1 straight: 2 curved: 2  Magill forceps pediatric  Nasopharyngeal airways infant child  Oropharyngeal airways size 0 size 1 size 2 size 3	child  Clear oxygen masks infant child  Masks to fit bag-mask device adaptor neonatal infant child  Nasal cannula infant child  Gastric tubes infant (8F) child (10F)
Lactated Ringer's solution Dextrose 10% in water	Equipment/Supplies: S Pediatric Trays or Kits	
Extremity splints (including femur splints)	Difficult airway supplies and/or kit  Contents to be based on pediatric patients served at the hospital and may include some or all of the following:  supraglottic airways of all sizes needle cricothyrotomy supplies surgical cricothyrotomy kit video laryngoscopy  Newborn delivery kit (including equipment for initial resuscitation of a newborn infant) umbilical clamp scissors bulb syringe towel  Urinary catheterization kits and urinary (indwelling) catheters infant child	

Additional Recommendations for High-Volume EDs (>10,000 Pediatric Patient Visits Per Year)		
☐ Alprostadil (prostaglandin E1)  Central venous catheters ☐ 4.0F ☐ 5.0F ☐ 6.0F ☐ 7.0F  Chest tubes ☐ infant (8-12F catheter) ☐ child (14-22F catheter) ☐ adult (24-40F catheter) OR pigtail catheter kit (8.5-14F catheter) ☐ Hypothermia thermometer	Noninvasive ventilation  continuous positive airway pressure OR high-flow nasal cannula  Self-inflating bag-mask device pediatric  Tube thoracostomy tray  Tracheostomy tubes size 3.5mm size 4.0mm size 4.5mm size 5.0mm size 5.5mm	
☐ Inotropic agents (e.g., digoxin and milrinone)  Laryngoscope blade ☐ size 00  Lumbar puncture tray, spinal needles ☐ infant ☐ child	Umbilical vein catheters  3.5F 5.0F  Video laryngoscopy	







