

Pediatric ED Medications

Medication	Weight-based dose	Important considerations
Acetaminophen	15 mg/kg q4-6h	Max 1,000 mg/dose; track combination products; hepatic risk.
Ibuprofen	10 mg/kg q6-8h	Max 400 mg; age $\geq$ 6 months; avoid dehydration, AKI, or GI bleeding.
Ondansetron	0.15 mg/kg once; max 8 mg. GE bands: 8-15 kg: 2 mg; >15-30 kg: 4 mg; >30 kg: 8 mg	QT-prolongation risk; indication-specific use.
Dexamethasone	0.3-0.6 mg/kg once	Maximum often 8-16 mg; croup and asthma protocols vary.
Metoprolol (Lopressor)	2.5 - 5 mg	IVP undiluted slowly.
Albuterol	Neb: 0.15 mg/kg (2.5-5 mg) q20 min x3. MDI: 5-10 kg: 4 puffs; >10-20 kg: 6 puffs; >20 kg: 8 puffs	Monitor heart rate and potassium; use spacer with MDI.
Ipratropium	Neb: 5-10 kg: 250 mcg; >10 kg: 500 mcg q20 min x3	Severe asthma adjunct with albuterol; not routine bronchiolitis therapy.
Epinephrine - anaphylaxis	0.01 mg/kg of 1 mg/mL; max 0.5 mg; repeat q5-15 min	Give in anterolateral thigh. Do not delay for antihistamine or IV access.
Diphenhydramine	0.5-1 mg/kg q6h PRN; max 50 mg	Sedating; adjunct only and never a substitute for IM epinephrine in anaphylaxis.
Ceftriaxone	50 mg/kg q24h; max 2 g. Meningitis: 100 mg/kg/day; max 4 g	Neonatal hyperbilirubinemia and calcium-containing IV product cautions.
Ketorolac	0.5 mg/kg once; max 15 mg	Avoid renal disease, dehydration, bleeding risk, and concurrent NSAIDs.



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Medication	Min-max	Increase/decrease increment	Important clinical considerations
Epinephrine	0.05 - 0.3 mcg/kg/min	0.02-0.05 mcg/kg/min	Cold/low-CO shock; monitor arrhythmia, lactate, and extravasation.
Norepinephrine	0.05 - 0.5 mcg/kg/min	0.02-0.05 mcg/kg/min	Vasodilatory shock; monitor perfusion and ischemia.
Dobutamine	2 - 20 mcg/kg/min	2-5 mcg/kg/min	Low cardiac output; may worsen hypotension or tachycardia.
Milrinone	0.25 - 0.75 mcg/kg/min	0.1-0.25 mcg/kg/min	Inodilator; renal adjustment; avoid loading dose if unstable. Can give 50mcg/kg loading dose if stable (decrease to 25 for renal dosing)
Fentanyl	0.5 - 5 mcg/kg/hr	0.5-1 mcg/kg/hr	Titrate to pain goal; respiratory depression; rapid bolus may cause chest-wall rigidity.
Midazolam	0.06 - 0.12 mg/kg/hr	0.01-0.02 mg/kg/hr	Loading dose 0.05-0.2mg/kg
Dexmedetomidine	0.2 - 1 mcg/kg/hr 1.4 mcg/kg/hr >6 yrs old	0.1-0.2 mcg/kg/hr	Bradycardia and hypotension; minimal respiratory depression. 0.5-1.5 mcg/kg/hr for procedural sedation
Calcium chloride	20 mg/kg/dose - 2 g/dose	N/A - intermittent dose	IV/IO bolus; repeat according to ECG, laboratory values, and protocol; central access preferred.
Amiodarone	5 mg/kg/dose - 15 mg/kg total	N/A - intermittent dose	Arrest: repeat bolus per PALS. Perfusing VT: infuse over 20-60 minutes. Caution in QT prolongation