



UMass Memorial Children's Medical Center

Pediatric Emergency Medicine

Medication Dosing Card 2025-2026

Adult = standard adult dose; Max = maximum dose for all ages

Dosage recommendations based on usual dosing in patients with normal renal/hepatic function

Please refer to Lexi-Comp or NeoFax for all Neonatal dosing

Anti-Infectives

Acyclovir
Meningitis:
 <4 months: 20 mg/kg/dose Q8H
 4 months to <12 yrs: 10-15 mg/kg/dose Q8H
 ≥12 yrs: 10 mg/kg/dose IV Q8H
Mucocutaneous: 5-10 mg/kg/dose IV Q8H

Amoxicillin
Low dose: 25 mg/kg/dose PO Q12H (Adult: 500 mg/dose)
High dose: 45 mg/kg/dose PO Q12H (Max 2000 mg/dose)

Amoxicillin/clavulanic acid (Augmentin)
Low dose: 25 mg/kg/dose PO Q12H (use **400 mg/5 mL** concentration)
High dose: 45 mg/kg/dose PO Q12H (use **600 mg/5 mL** concentration)

Ampicillin
25-50 mg/kg/dose IV Q6H (Adult: 1-2 g/dose)
Meningitis:75-100 mg/kg/dose IV Q6H (Adult: 2 g/dose)
See Epic order set ED Pediatric Fever Neonate for neonatal dosing

Ampicillin/sulbactam combination (Unasyn)
37.5-100 mg ampicillin/kg/dose IV Q6H (Adult: 1.5 or 3 g Unasyn/dose)

Azithromycin
10 mg/kg/dose IV/PO on day 1 (Max 500 mg/dose), 5 mg/kg/dose PO days 2 through 5 (Max 250 mg/dose) OR 10 mg/kg/dose IV/PO daily x 3 days (Max 500 mg/dose)
Strep pharyngitis: 12 mg/kg/day PO x 5 days (Max 500 mg/dose)

Cefazolin
25-50 mg/kg/dose IV Q8H (Adult: 1-2 g/dose)

Cefdinir
14 mg/kg/dose PO Q24H (Adult: 600 mg/day)

Cefepime
50 mg/kg/dose IV Q8H (Max 2 g/dose)

Cefoxitin
40 mg/kg/dose IV Q6H (Max 2 g/dose)

Cefpodoxime
5 mg/kg/dose PO Q12H (Max 200 mg/dose)

Ceftazidime
Febrile neutropenia: 50-100 mg/kg/dose IV Q8H
Non-CF: 30-50 mg/kg/dose IV Q8H (Adult: 1-2 g/dose)
CF Dosing: 75 mg/kg/dose IV Q6H (Max 12 g/day)

Ceftriaxone (*contraindication*: age <21 days use Amp/Gent)
50 mg/kg/dose IM/IV Q24H (Adult: 1 g; *Sickle Cell/Onc: 2 g*)
100 mg/kg/dose IV Q24H for meningitis (Max 4 g/day)

Cephalexin
12-25 mg/kg/dose PO Q6-8H (Adult: 500 mg/dose)

Clindamycin
7.5-10 mg/kg/dose IM/IV/PO Q6-8H (Adult: 600 or 900 mg/dose)

Fluconazole
6-12 mg/kg/dose IV/PO x1, followed by 3-12 mg/kg/dose IV/PO daily (Max 200 mg/dose)

Gentamicin
See Epic order set ED Pediatric Fever Neonate for neonatal dosing

Metronidazole
10 mg/kg/dose IV/PO Q8H (Adult/Max: 500 mg/dose)

Nystatin oral (100,000 units/mL)
Neonates: 1 mL PO, 4 times/day; Infants: 2 mL PO, 4 times/day
Children/Adults: 5 mL PO, 4 times/day

Oseltamivir
Treatment (duration 5 days):
1-8 months: 3 mg/kg/dose PO Q12H
9-11 months: 3.5 mg/kg/dose PO Q12H
≥12 months:
 ≤15 kg: 30 mg PO Q12H
 >15-23 kg: 45 mg PO Q12H
 >23-40 kg: 60 mg PO Q12H
 >40 kg: 75 mg PO Q12H

Prophylaxis (duration 7-10 days):
<3 months: not recommended unless situation is judged critical
3-11 months: 3 mg/kg/dose PO once daily
≥12 months:
 ≤15 kg: 30 mg PO once daily
 >15-23 kg: 45 mg PO once daily
 >23-40 kg: 60 mg PO once daily
 >40 kg: 75 mg PO once daily

Penicillin G benzathine
Strep pharyngitis:
 ≤27 kg: 600,000 units IM x 1 dose
 >27 kg: 1.2 million units IM x 1 dose (Adult: 1.2 million units)

Penicillin VK
Strep pharyngitis: ≤27 kg 250 mg PO TID; >27 kg 500 mg PO TID

Piperacillin/tazobactam combination (Zosyn)
75-100 mg piperacillin/kg/dose IV Q6H (Adult: 4.5 g Zosyn/dose)

Sulfamethoxazole/trimethoprim (Bactrim)
4–6 mg/kg/dose IV/PO trimethoprim component (40 mg TMP/5 mL) Q12H (Adult: 1 DS tab PO BID, TMP =160 mg)

Vancomycin
Refer to UMMMC Vancomycin Guidelines for empiric dosing recommendations based on indication and patient age

Anaphylaxis

EPINEPHrine (INTRAMUSCULAR) 1 mg/mL concentration
0.01 mg/kg IM (Max 0.5 mg), repeat Q5-15 minutes
For outpatient use:
 <30 kg: EpiPen Jr® 0.15 mg
 ≥30 kg:EpiPen 0.3 mg

Diphenhydramine
1-1.25 mg/kg/dose IM/IV/PO (Max 50 mg)

Cetirizine (Zyrtec)
≥6 months and <2 yrs: 2.5 mg PO once daily
2-5 yrs: 2.5-5 mg PO once daily
>5 yrs and adolescents: 5-10 mg PO once daily (Adult: 10 mg)

Loratadine (Claritin)
≥2 yrs and <6 yrs: 5 mg PO once daily
≥6 yrs and adolescents: 10 mg PO once daily (Adult: 10 mg)

Famotidine
0.5 mg/kg/dose PO Q12H (Adult: 20 mg)
0.25 mg/kg/dose IV Q12H (Adult: 20 mg)

Methylprednisolone
(*If giving PO meds, use Dex/Pred*)
2 mg/kg/dose IV (Max 125 mg), then 0.5 mg/kg/dose IV Q6H

Dexamethasone
0.6 mg/kg/dose PO daily (Max 16 mg/dose)

PredniSONE (tablets)/PrednisoLONE (3 mg/mL liquid)
1-2 mg/kg/day PO daily or Q12H (Max 60 mg/day)

Gastrointestinal Agents

Famotidine
0.5 mg/kg/dose PO Q12H (Adult: 20 mg Q12H)
0.25 mg/kg/dose IV Q12H (Adult: 20 mg Q12H)

GI cocktail
15 mL viscous 2% lidocaine + 15 mL Maalox

Maalox
0.5-2 mL/kg/dose PO up to 4x per day (Adult: 15-30 mL/dose)

Metoclopramide
0.1 mg/kg/dose IV/PO Q8H (Max 10 mg)

Omeprazole oral suspension
Infants: 0.7-1.5 mg/kg/day PO Q24H or Q12H
Children: 0.5-1 mg/kg PO (Max 20 mg/dose) Q24H or Q12H

Ondansetron
0.1-0.15 mg/kg/dose IM/IV/PO (Adult: non-chemo 4 mg)

Pantoprazole
<20 kg: 0.5-1 mg/kg IV/PO daily; 20-40 kg: 20 mg IV/PO daily; (Adult: 40 mg)

Polyethylene glycol 3350 (MiraLAX)
0.2-0.8 g/kg/day PO (maintenance); 1 g/kg/day PO (fecal impaction)

Prochlorperazine
0.1 mg/kg/dose IM/IV/PO/PR Q6-8H (Max 10 mg)

Cardiovascular Agents

Adenosine
0.1 mg/kg rapid IV bolus (Max 6 mg first dose)
May repeat at 0.2 mg/kg IV (Max 12 mg subsequent doses)

Alprostadil (prostaglandin) (500 mcg/50 mL 0.9% NaCl)
Infusion: 0.05-0.1 mcg/kg/min IV initial rate, titrate to effect

Hydralazine
0.1-0.2 mg/kg/dose IV Q4-6H (Adult: 10-20 mg/dose)

Labetalol
Bolus: 0.2-1 mg/kg/dose IV (Adult: 20 mg/dose, Max 40 mg/dose)
Infusion: 0.25-3 mg/kg/h IV, start at low end and titrate slowly

PALS/Resuscitation Meds

Amiodarone
IV/IO: 5 mg/kg, bolus for VF/pulseless VT or infuse over 20-60 minutes for perfusing tachycardias (Max: 300 mg)

Atropine (*bradycardia dosing*)
IV/IO: 0.02 mg/kg, (Min 0.1 mg/dose, Max 0.5 mg/dose)

Calcium
Calcium Gluconate 10%: 60-100 mg/kg (Max 2000 mg/dose)
Calcium Chloride 10%: 20 mg/kg (Max 2000 mg/dose)

Dextrose
D50W: 1-2 mL/kg/dose
D25W: 2-4 mL/kg/dose
D10W: 5-10 mL/kg/dose

EPINEPHrine 0.1 mg/mL concentration
IV/IO: 0.01 mg/kg (Max 1 mg/dose)

Lidocaine
IV/IO: 1 mg/kg bolus

Magnesium Sulfate (Torsades)
IV/IO: 25-50 mg/kg/dose (Max 2g/dose)

Sodium Bicarbonate
1 mEq/kg IV; children <2 yo: use 4.2% (0.5 mEq/mL), ≥2 yo: use 8.4% (1 mEq/mL)

Pain

Acetaminophen
15 mg/kg/dose PO/PR Q4H (Max 90 mg/kg/day or 4 g/day, 975 mg/dose)
15 mg/kg/dose IV Q6H (Max 60 mg/kg/day)

Fentanyl
IV: 0.5-1 mcg/kg IV initial dose, repeat Q2-4H PRN (Adult: 25-100 mcg)
Intranasal: (for ≥10 kg) 1.5 mcg/kg IN x 1 dose (Max 100 mcg). Repeat at 0.3-0.5 mcg/kg every 5 minutes as needed (not to exceed a total dose of 3 mcg/kg); Onset: <10 minutes, Duration: 30 minutes

Hydromorphone
0.03-0.06 mg/kg/dose PO (Adult: 2-4 mg/dose)
0.015 mg/kg/dose IV (Adult: 0.2-0.6 mg/dose)

Ibuprofen
≥6 months: 10 mg/kg/dose PO Q6-8H (Max 800 mg/dose, 40 mg/kg/day)

Ketorolac
≥6 months: 0.5 mg/kg/dose IM/IV Q6-8H (Max 15 mg/dose)

Morphine
0.05-0.1 mg/kg/dose IV Q2-4H PRN (Adult: 2-10 mg/dose)
0.2-0.5 mg/kg/dose PO Q2-4 PRN (Max 20 mg)

Oxycodone IR
0.05-0.15 mg/kg/dose PO Q4-6H PRN (Adult: 5-10 mg/dose)

Pain/Sedation Continuous Infusions

Fentanyl
0.5-1 mcg/kg/h IV; (>50 kg: start 25-50 mcg/hr, titrate as needed)

Midazolam
0.05-0.1 mg/kg/h IV; (>50 kg: 1-2 mg/hr)

Morphine
0.05-0.1 mg/kg/h IV; (>50 kg: 2-4 mg/hr)

Propofol
5-65 mcg/kg/min IV; (start at 5-10 mcg/kg/min and titrate as needed)

Dexmedetomidine
0.2 mcg/kg/hr IV; titrate as needed by 0.1-0.3 mcg/kg/hr (usual dose 0.2-2 mcg/kg/hr)

Rapid Sequence Intubation

Pretreatment
Atropine IV/IO: 0.02 mg/kg (No minimum dose) (Max dose 0.5 mg)

Sedatives
Etomidate 0.3 mg/kg IV push
Ketamine 1-2 mg/kg IV push
Midazolam 0.3 mg/kg IV push (Adult: 10 mg)

Paralytics
Rocuronium 1 mg/kg IV
Succinylcholine Infants: 2 mg/kg IV; Children/Adults: 1-2 mg/kg IV

Vasopressor Agents (central line preferred)

DOBUTamine (500 mg/250 mL D5W)
Infusion: 5-20 mcg/kg/min IV

DOPamine (400 mg/250 mL D5W)
Infusion: 5-20 mcg/kg/min IV

EPINEPHrine (4 mg/250 mL NS)
Infusion: 0.1-1 mcg/kg/min IV

Norepinephrine (4 mg/250 mL NS)
Infusion: 0.05-2 mcg/kg/min IV

Phenylephrine (10 mg/250 mL NS)
Infusion: 0.1-2 mcg/kg/min IV

