

**REGINA QU'APPELLE HEALTH REGION  
PROTOCOLS**

**RULES AND REGULATIONS**

**2.0 Automatic Dosage Adjustment of Parenteral Medications for Pediatric Patients Greater Than or Equal to 3 kg and Greater Than 30 days old**

**Note: NICU patients are exempt**

1. The dosage of a parenteral medication for a pediatric patient shall *automatically* be adjusted by a pharmacist according to the table below. Changes shall be noted in the physician's orders of the patient's chart.
2. In exceptional circumstances, a physician may indicate the dosage should not be adjusted.
3. For dosages above the maximum, a pharmacist will contact the physician to round to the adult dose range.

<b>DRUG</b>	<b>RECOMMENDED DOSE</b>	<b>MINIMUM DOSE</b>	<b>INCREMENT</b>
Ampicillin	Mod: 100mg/kg/24h ÷ q6h Severe: 200mg/kg/24h ÷ q6h	75mg	Less than 300mg: to nearest 25mg Greater than or equal to 300mg & less than 500mg: to nearest 50mg Greater than or equal to 500mg: to nearest 100mg; max 1g
Cefazolin	80mg/kg/24h ÷ q8h	100mg	Less than 300mg: to nearest 25mg Greater than or equal to 300mg & less than 500mg: to nearest 50mg Greater than or equal to 500mg: to nearest 100mg; max 1g
Cefoxitin	80-160mg/kg/24h ÷ q6h		
Ceftazidime	150mg/kg/24h ÷ q8h Cystic Fibrosis: 300mg/kg/24h ÷ q6-8h		
Cefotaxime	Meningitis: 200mg/kg/24h ÷ q6h		
Cefuroxime	75-150mg/kg/24h ÷ q8h	75mg	Less than 300mg: to nearest 25mg Greater than or equal to 300mg: to nearest 50mg to maximum adult doses of 750mg for mild-moderate infections, and 1.5g for <i>severe, life-threatening</i> infections* *NOTE: Doses between 750mg-1.5g rounded to 1g
Chloramphenicol	75-100mg/kg/24h ÷ q6h	50mg	To nearest 50mg; max 750mg
Clindamycin	20-40mg/kg/24h ÷ q6-8h Adult dose: 300mg q6h or 600mg q8h	30mg	Less than 150mg: to nearest 15mg Greater than or equal to 150mg: to nearest 30mg; max 600mg

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Cloxacillin	Mod: 50-100mg/kg/24h ÷ q6h Severe: 200mg/kg/24h ÷ q6h	50mg	Less than 300mg: to nearest 25mg Greater than or equal to 300mg & less than 500mg: to nearest 50mg Greater than or equal to 500mg: to nearest 100mg; max 1g
Erythromycin	20-50mg/kg/24h ÷ q6h Adult dose: 500-1000mg/dose q6h	25mg	Less than 300mg: to nearest 25mg Greater than or equal to 300mg & less than 500mg: to nearest 50mg Greater than or equal to 500mg: to nearest 100mg; max 1g
Gentamicin	[Less than or equal to 7days old: 5mg/kg/24h ÷ q12h] Less than 6y: 7.5mg/kg/24h ÷ q8h 6-10y: 6mg/kg/24h ÷ q8h Greater than 10y: 4.5mg/kg/24h ÷ q8h, or as per Pharmacy Kinetic Service	-	Less than 40mg: to nearest mg Greater than or equal to 40mg: to nearest 4mg; max 80mg Greater than 80mg: to nearest 20mg
Hydrocortisone	Load: 4-8mg/kg Maintenance: 10mg/kg/24h ÷ q6h	20mg	Less than 150mg: to nearest 10mg Greater than or equal to 150mg: to nearest 25mg; max 500mg
Methylprednisolone	Asthma 2-4mg/kg/24h ÷ q6h Adult dose: 125mg IV q6h	-	To nearest mg
Metronidazole	30mg/kg/24h ÷ q8-12h Adult dose: 500mg IV q8h	25mg	Less than 100mg to nearest 10mg Greater than or equal to 100mg to nearest 25mg; max 500mg
Penicillin G	Mod: 100,000iu/kg/24h ÷ q6h Severe: 250,000iu/kg/24h ÷ q4-6h	50,000u	To nearest 25,000u; max 1million units
Piperacillin	Moderate: 100-200mg/kg/24h ÷ q6h Severe: 200-300mg/kg/24h ÷ q4-6h	200mg	Less than 1g: to nearest 100mg Greater than or equal to 1g: to nearest 250mg; max 3g
Ranitidine	Infant: 3-4mg/kg/24h ÷ q6h Child: Greater than 1yr: 6mg/kg/24h ÷ q6h Adult dose: 50mg q8h	25mg	To nearest mg; max 50mg

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Tobramycin	[Less than or equal to 7days old: 5mg/kg/24h ÷ q121h]  Less than 6y: 7.5mg/kg/24h ÷ q8h  6-10y: 6mg/kg/24h ÷ q8h  Greater than 10y: 4.5mg/kg/24h ÷ q8h, or as per Pharmacy Kinetic Service	-	Less than 40mg: to nearest mg  Greater than or equal to 40mg: to nearest 4mg; max 80mg  Greater than 80mg: to nearest 20mg
Vancomycin	40-60mg/kg/24h ÷ q6h; max 2g/day	25mg	Less than 100mg: to nearest 10mg, unless patient is less than 5kg, then to nearest 5mg  Greater than or equal to 100mg: to nearest 25mg; max 1g

**Reference:** Pediatric Drug Dosage Handbook, 8<sup>th</sup> Edition, 1998, Winnipeg Health Sciences Centre

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