

NEONATAL Medication Monograph

PARACETAMOL

This document should be read in conjunction with this **DISCLAIMER**

Oral: Unrestricted: Any prescriber may initiate treatment

IV: Restricted: Requires Neonatologist or relevant specialist review within 24 hours of initiation

▲ Check Route of Administration, Dose and Indication Caution in Neonates at risk of hepatotoxicity

Presentation	Oral Mixture: 250mg/5mL				
	IV: 1g/100mL = 10mg/mL				
Description	Non-narcotic analgesic and antipyretic				
Indications	 Analgesia: For relief of postoperative pain and reduce the use of narcotic analgesics in infants ≥ 28 weeks. Symptomatic fever Haemodynamically significant Patent Ductus Arteriosis (PDA): Where indomethacin is contraindicated or 2 courses have failed 				
Contraindication s	Contraindicated where patient has hypersensitivity to paracetamol, severe hepatocellular insufficiency or hepatic failure				
Precautions	Risk of haemolysis in patients with G6PD Deficiency with high doses				
Dosage	See Page 2				
Adverse Reactions	Common: nausea, vomiting, constipation, dizziness, pain at injection site, pruritis, hypothermia Serious: skin rash/urticarial, thromobocytopaemia, anaphylactic shock, hepatotoxic with chronic use				
Compatible Fluids	Glucose 5%, Sodium Chloride 0.9%				

Paracetamol - Neonatal

Droporotion	IV: Use undiluted					
Preparation	Oral: Nil					
Dosage	Analgesia/Antypyretic					
	Note: IV and Oral					
	When used for analgesia, an initial loading dose of 20mg/kg/dose may be administered if clinically necessary with the maximum daily dose adhered to as stated below. Give maintenance dose 6 hours post loading dose .					
	Intravenous Administration					
	CGA	Dose	Frequency	Max DAILY Dose		
	≥ 32 weeks	10mg/ kg/ dose	Every 6 hours	50mg/ kg/ day		
			as necessary	/		
	Oral Administration					
	CGA	Dose	Frequency	Max DAILY Dose		
	28 to 32 weeks	10mg/ kg/ dose	Every 6 hours as necessary 40mg/ kg/ day			
	≥ 33 weeks	15mg/ kg/ dose	Every 6 hours as necessary 60mg/ kg/ day			
	Hemodynamically Significant Patent Ductus Arteriosus (PDA)					
	Oral/IV:					
	15mg/kg/dose every 6 hours for 5 days.					
	DA to be reviewed 3 days after course completion					
Adverse Reactions	Common: nausea, vomiting, constipation, dizziness, pain at injection site, pruritis, hypothermia					
	Serious: skin rash/urticarial, thromobocytopaemia, anaphylactic shock, hepatotoxic with chronic use					
Compatible Fluids	Glucose 5%, Sodium Chloride 0.9%					
Preparation	IV: Use undiluted					
	Oral: Nil					
Administration	IV: Infuse over 15 minutes					
	Oral: Can be given any time with regards to feeds					

Monitoring	Monitor for analgesic response			
	Monitor temperature if used for fever			
Interactions	Barbiturates, carbamazepine and phenytoin may increase clearance of paracetamol.			
Storage	Store at room temperature, below 25°C			
Notes	Measure the paracetamol level if toxicity is suspected, routine monitoring not required.			
	Antidote for paracetamol overdose: Acetylcysteine			
References	Truven Health Analytics. Paracetamol. In: NeoFax [Internet]. Greenwood Village (CO): Truven Health Analytics; 2019 [cited 2019 Sept 18]. Available from: https://neofax.micromedexsolutions.com/ Society of Hospital Pharmacists of Australia. Paracetamol: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2018 [cited 2017 Nov 19]. Available from: http://aidh.hcn.com.au Taketomo CK, Hodding JH, Kraus DM. Pediatric and neonatal dosage handbook. Hudson (OH): Lexi Comp; 2010. Terrin, G., et al. (2016). "Paracetamol for the treatment of patent ductus arteriosus in preterm neonates: a systematic review and meta-analysis." https://aidh.hcn.com.au Taketomo CK, Hodding JH, Kraus DM. Pediatric and neonatal dosage handbook. Hudson (OH): Lexi Comp; 2010. Terrin, G., et al. (2016). "Paracetamol for the treatment of patent ductus arteriosus in preterm neonates: a systematic review and meta-analysis."			

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For any enquiries relating to this guideline, please email KEMH.PharmacyAdmin@health.wa.gov.au

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