



NEONATAL Medication Monograph

CLONAZEPAM





This document should be read in conjunction with this [DISCLAIMER](#)

Highly Restricted: Requires Neurologist or Neonatologist approval before commencing

 **HIGH RISK Medication**

Presentation	Ampoule: 1mg/mL Oral Drops: 2.5mg/mL (1 drop = 0.1mg= 100micrograms)
Description	Benzodiazepine
Indications	Anticonvulsant for status epilepticus and epilepsy unresponsive to conventional therapy
Contraindications	Contraindicated in severe hepatic impairment
Dosage	<u>IV:</u> 50microgram to 100microgram/ kg / dose over 2-5 minutes Repeat after 15 minutes if necessary Maximum DAILY dose : 1mg <u>Oral:</u> <i>Note: ORAL Dose is independent of weight</i> 100 microgram to 300 microgram / day in 2-3 divided doses May be increased every third day by 250-500microgram increments Maximum DAILY dose: 3- 6mg
Dosage Adjustment	Adjust dose according to response in consultation with neurology Note: Clonazepam has a long half-life, repeated doses can cause accumulation
Adverse Reactions	Common: sedation, tachycardia, oedema
	Serious: CNS and respiratory depression, skin reaction
Compatible Fluids	Glucose 5%, Glucose 10%, Sodium Chloride 0.9%

Preparation	<p><u>IV:</u> <i>Do not use diluent provided – use a suitable diluent from compatible fluids for dilution</i></p> <p>Withdraw 1mL (1mg) of clonazepam injection and make to 10mL with a compatible fluid</p> <p>Concentration = 1mg/10mL = <u>100micrograms/mL</u></p> <p><u>Oral:</u> <i>For doses less than 100micrograms</i></p> <p>Take 0.1mL (250 micrograms) of oral Clonazepam drops and dilute to 1mL of Water for Irrigation</p> <p>Concentration = 250micrograms/mL = <u>25micrograms/0.1mL</u></p>
Administration	<p><u>IV:</u> slowly over 2 to 5 minutes</p> <p><u>Oral:</u> may be given at any time with regards to feeds</p>
Monitoring	<p>Cardiac and Respiratory monitoring</p> <p>Long term therapy may require therapeutic monitoring</p> <p>Time to steady state: 1 weeks</p> <p>Therapeutic Range: 20-70 microgram/L</p> <p>Sampling Time: midway between doses</p>
Storage	<p>Store at room temperature, below 25°C</p>
Notes	<p>Oral Drops are dyed blue</p>
References	<p>Ainsworth SB. Neonatal formulary 7 : drug use in pregnancy and the first year of life. Seventh ed. Chichester (West Sussex): John Wiley & Sons Inc.; 2015. 631 .</p> <p>Takemoto CK, Hodding JH, Kraus DM. Pediatric & neonatal dosage handbook with international trade names index : a universal resource for clinicians treating pediatric and neonatal patients. 24th ed. Hudson (Ohio): Lexicomp; 2019.</p> <p>Australian Medicines Handbook. Clonazepam. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2020 [cited 2020 Jan 17]. Available from: https://amhonline.amh.net.au/</p> <p>British National Formulary. BNF for Children. 2018-19 ed. London, UK: BMJ Group and Pharmaceutical Press; 2018. p. 219</p>

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