



NEONATAL MEDICATION GUIDELINE

Adrenaline (Epinephrine) – Stridor

Scope (Staff): Nursing, Medical and Pharmacy Staff

Scope (Area): KEMH NICU, PCH NICU, NETS WA,

This document should be read in conjunction with the [Disclaimer](#).

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Restrictions

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Requires Neonatologist or relevant specialist review within 24 hours of initiation.

Description

Nonselective adrenergic agonist. Positive inotrope and chronotrope; vasodilator at low dose; vasoconstrictor at high dose. Bronchial smooth muscle relaxant.

Presentation

Ampoule: 1 in 1,000 (1mg/1mL)

Storage

Store at room temperature, below 25°C

Dose

Post Intubation Stridor:

0.5 mg/kg dose

Can be repeated every 60 minutes following medical assessment.

Preparation

Ampoule 1 in 1,000 (1mg/1mL):

0.5 mL/kg/dose

Make up to 5mL with Sodium Chloride 0.9% or Water For Injections.

Administration

Via a nebulising mask with the driving gas as prescribed by medical staff.

Set flow rate to 6L/minute.

There will always be deadspace at is not available for nebulisation – it is not possible to nebulise to dryness.

Side Effects

Common: tachycardia, tremor, hyperglycaemia

Serious: peripheral ischaemia and necrosis at infusion site, overdose or rapid administration can lead to excessive increase in blood pressure, cerebral haemorrhage, renal vascular ischemia, pulmonary oedema.

Interactions

Other

Monitoring

- Respiratory rate
- Oxygen saturation
- Heart rate
- Blood pressure

Comments

Adrenaline is sensitive to light and air, protection from light is recommended.

Related Policies, Procedures & Guidelines

Clinical Practice Guidelines:

[Extubation: Planned and Unplanned](#)

References

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. 27th ed. Hudson (Ohio): Lexicomp; 2021. p878

Truven Health Analytics. Epinephrine. In: NeoFax [Internet]. Greenwood Village (CO): Truven Health Analytics; 2022 [cited 2022 Jun 13]. Available from: <https://neofax.micromedexsolutions.com/>

Australian Medicines Handbook. Adrenaline. In: Australian Medicines Handbook [Internet]. Adelaide (South Australia): Australian Medicines Handbook; 2022 [cited 2022 Jun 13]. Available from: <https://amhonline.amh.net.au/>

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