



NEONATAL MEDICATION GUIDELINE

Glyceryl Trinitrate (Topical)

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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Description

Nitrate

Presentation

Ointment: 0.2% (30g tube)

Storage

Store at room temperature, below 25°C.

Dose

Peripheral tissue ischaemia secondary to arterial line complications

Or

Extravasation of vasopressor agents

Topical:

4 mm / kg / application.

Repeat dose every 8 hours if required.

Dose Adjustment

Renal Impairment: Not documented

Hepatic Impairment: Not documented

Administration

Topical

Apply to the affected area(s) whilst wearing gloves.

Side Effects

Common: Flushing, vasodilation, venous pooling, nausea, vomiting.

Serious: Tachycardia, paradoxical bradycardia, hypotension.

Interactions

Avoid concomitant use with sildenafil or nitric oxide.

Monitoring

Cardiac monitoring, blood pressure, respiratory function, application site reactions.

Comments

Glyceryl trinitrate is well absorbed across intact skin, delivering the highest dose to the area directly beneath.

The onset of action is within 1 hour, and the haemodynamic effect lasts up to 6 hours.

If any adverse effects occur, wipe off excess ointment.

Related Policies, Procedures & Guidelines

CAHS Clinical Guidelines:

[Umbilical Arterial and Venous Catheters \(UAC/UVC\) Insertion, Management and Removal](#)

[Peripheral Arterial Catheter Insertion and Removal](#)

[Extravasation Injuries](#)

WNHS Pharmaceutical and Medicines Management Guidelines:

[Medication Administration](#)

References

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