



**Neonatal** 

## **GLYCEROL (GLYCERINE)**

Read in conjunction with **Disclaimer** 

| Formulary: Unrestricted  |   |  |  |  |  |
|--|---|--|--|--|--|
| Presentation       Liquid: 100% v/v glycerol         Suppository for infants: 700 mg |   |  |  |  |  |
| Classification   | Osmotic laxative  |  |  |  |  |
| Indication   | <ul><li>Facilitation of passage of meconium</li><li>Constipation</li></ul>  |  |  |  |  |
| Special<br>Considerations  | <b>Contraindications:</b> Dehydration, rectal bleeding.<br><b>Precautions:</b> Congenital gastrointestinal conditions, major cardiac defects (risk of fluid shift). |  |  |  |  |
| Monitoring   | Stool output  |  |  |  |  |
| Side Effects   | Diarrhoea, rectal irritation, abdominal pain, bleeding per rectum (from insertion of the syringe when liquid used).   |  |  |  |  |
| Storage & Stability  | <b>Liquid:</b> Store at room temperature, below 30°C.<br><b>Suppository:</b> Store at room temperature, below 25°C. Discard unused portion immediately.             |  |  |  |  |
| Comments   | <b>Onset of action:</b> 15 to 30 minutes.<br>May also act through its local irritant effects and have lubricating and faecal softening actions.                     |  |  |  |  |

|      | Presentation   | Liquid: 100% v/v glycerol   |  |  |
|------|----------------|---|--|--|
|      | Dosage         | Constipation<br>0.1 to 0.2 mL   |  |  |
| RECT | Preparation    | <ul> <li>Draw glycerol solution into a 1 mL syringe.</li> <li>Attach Clot Catcher and prime with the solution.</li> </ul> |  |  |
|      | Administration | Insert 1 to 2 cm of Clot Catcher into rectum and administer required dose.  |  |  |

| ≻           | Presentation   | Suppository for infants: 700 mg   |  |  |
|-------------|----------------|---|--|--|
| ral<br>itor | Dosage         | Constipation<br>Small sliver  |  |  |
| RECT        | Preparation    | <ul><li>Cut a small sliver from suppository for use.</li><li>Discard unused portion of suppository.</li></ul> |  |  |
| SUB         | Administration | Gently insert the sliver into the rectum.   |  |  |

## References

Australasian Neonatal Medicines Formulary (ANMF). Glycerol. In: Australasian Neonatal Medicines Formulary [Internet]. [Sydney, New South Wales; 2024 [cited 2024 Sep 30]. Available from: <u>www.anmfonline.org</u>

AusDI. Petrus Glycerol Suppositories B.P. In: AusDI By Medical Director [Internet]. Australia: AusDI by Medical Director; 2024 [cited 2024 Oct 10]. Available from: <u>https://www.ausdi.com/</u>

British National Formulary. BNF for Children. 2018-19 ed. London, UK: BMJ Group and Pharmaceutical Press; 2018. P. 49.

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; 2020. P1119.

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