



Drug Therapy Protocols: Glucose 5%

Policy code	DTP_GL5_0722
Date	July, 2022
Purpose	To ensure a consistent procedural approach to glucose 5% administration.
Scope	Applies to all Queensland Ambulance Service (QAS) clinical staff.
Health care setting	Pre-hospital assessment and treatment.
Population	Applies to all ages unless specifically mentioned.
Source of funding	Internal – 100%
Author	Clinical Quality & Patient Safety Unit, QAS
Review date	July, 2024
Information security	UNCLASSIFIED – Queensland Government Information Security Classification Framework.
URL	https://ambulance.qld.gov.au/clinical.html

While the QAS has attempted to contact all copyright owners, this has not always been possible. The QAS would welcome notification from any copyright holder who has been omitted or incorrectly acknowledged.

All feedback and suggestions are welcome. Please forward to: Clinical.Guidelines@ambulance.qld.gov.au

Disclaimer

The Digital Clinical Practice Manual is expressly intended for use by appropriately qualified QAS clinicians when performing duties and delivering ambulance services for, and on behalf of, the QAS.

The QAS disclaims, to the maximum extent permitted by law, all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs incurred for any reason associated with the use of this manual, including the materials within or referred to throughout this document being in any way inaccurate, out of context, incomplete or unavailable.

© State of Queensland (Queensland Ambulance Service) 2022.



This work is licensed under the Creative Commons Attribution-NonCommercial-NoDerivatives V4.0 International License

You are free to copy and communicate the work in its current form for non-commercial purposes, as long as you attribute the State of Queensland, Queensland Ambulance Service and comply with the licence terms. If you alter the work, you may not share or distribute the modified work. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-nd/4.0/deed.en>

For copyright permissions beyond the scope of this license please contact: Clinical.Guidelines@ambulance.qld.gov.au

Glucose 5%

July, 2022

Drug class^[1]

Pharmacological dilutant

Pharmacology

Glucose is a sugar that is the principal energy source for body cells, especially the brain.^[1]

Metabolism

Broken down in most tissues and distributed throughout total body water.^[1]

Indications

- As a **vehicle for drug delivery during IV/IO drug infusion** administration.
- For the **dilution and reconstitution of medications**

Contraindications

- Nil

Precautions

- Hyperglycaemia

Side effects

- Nil

Presentation

- Viaflex® plastic container, 100 mL, *glucose monohydrate 5%*

Onset

Not applicable

Duration

Not applicable

Half-life

Not applicable

Schedule

- Unscheduled.

Routes of administration

Intravenous injection (IV)

CCP

Intravenous infusion (IV INF)

CCP

Intraosseous injection (IO)

CCP

Adult dosages

For the dilution and reconstitution of medications		
CCP	IV	As authorised on individual DTPs
As a vehicle for drug delivery during IV/IO drug infusion administration		
CCP	IV/IO INF	As authorised on individual DTPs

Special notes

- Ambulance officers must only administer medications for the listed indications and dosing range. Any consideration for treatment outside the listed scope of practice requires mandatory approval via the *QAS Clinical Consultation and Advice Line*.
- Following medication dilution/reconstitution all unused glucose 5% solution should be discarded immediately.

Paediatric dosages

<ul style="list-style-type: none"> • As a vehicle for drug delivery during IV/IO drug infusion administration • For the dilution and reconstitution of medications 		
CCP	IV/IO INF	As authorised on individual DTPs