



ADULT MEDICATION GUIDELINE

GLUCOSE 50%

Scope (Staff):	All WNHS Staff
Scope (Area):	Obstetrics and Gynaecology

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

Quick Links

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[Administration](#)

[Monitoring](#)

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Restrictions

[Formulary: Unrestricted](#)

Medication Class

Hyperglycaemic

Presentation

Infusion Vial: 25g in 50mL

Storage

Store at room temperature, below 25°C

Dose

Refer to [KEMH Adult Resuscitation Drug Protocol](#) for appropriate dose regimes

Severe Hypoglycaemia

IV Injection

Dose: Inject 20 to 50mL SLOWLY (3mL/minute) depending on response and blood glucose levels

Hyperkalaemia (with insulin)

IV Injection

Dose: Inject 20 to 50mL SLOWLY (3mL/minute) depending on response and blood glucose levels

Administration

Glucose 50% is hypertonic so IV administration may cause local pain, vein irritation, local phlebitis or venous thrombosis. Inject slowly and avoid extravasation

IV Injection

Inject into a central venous access device. In the emergency treatment of severe hypoglycaemia inject the dose at a maximum rate of 3 mL/minute into a large peripheral vein. Inject slowly and use a small-bore needle.

IV infusion

Infuse into a central venous access device at a maximum rate of 0.5 g/kg/hour (1 mL/kg/hour).

Monitoring

Rapid injection of 25–30 g over 3 minutes may cause a generalised flush which subsides within 10 minutes.

Hydration status as hypertonic glucose solutions may cause dehydration.

Blood glucose levels

Potassium

Pregnancy

1st Trimester: Safe to use

2nd Trimester: Safe to use

3rd Trimester: Safe to use

Breastfeeding

Safe to use

Comments

Glucose 50% is hypertonic so IV administration may cause local pain, vein irritation, local phlebitis or venous thrombosis. Inject slowly and avoid extravasation.

Related Policies, Procedures & Guidelines

WNHS Clinical Practice Guidelines:

[Diabetes in obstetrics and gynaecology \(health.wa.gov.au\)](http://health.wa.gov.au)

[Adult resuscitation drug protocols](#)

References

Society of Hospital Pharmacists of Australia. Glucose 50%. In: Australian Injectable Drugs Handbook [Internet]. [St Leonards, New South Wales]: Health Communication Network; 2023 [cited 2023 Feb 06]. Available from: <http://aidh.hcn.com.au>

MIMS Australia. Glucose 50%. In: MIMS Online [Internet]. St Leonards (New South Wales): MIMS Australia; 2023 [cited 2023 Feb 03]. Available from: <https://www.mimsonline.com.au>

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