Dextrose 40% (Glucose)

Trade Name	Dextrose 40% Gel
Class	Monosaccharide, Anti-hypoglycaemic agent
Mechanism of Action	Dextrose gel is absorbed via the buccal mucosa and increases blood glucose levels
Indications	Management of hypoglycaemia in babies: • ≥ 35 weeks gestation • for the first 48 h after birth • in conjunction with breastfeeding support and neonatal review
Contraindications	Use with caution in patients with known or family history of hypersensitivity to corn/ maize products.
Supplied As	Dextrose gel 40% (100mL) BIOMED
Dilution	Do not dilute prior to administration
Dosage	0.5mL/kg per dose
Guardrail	N/A
Interval	As per Neonatal Hypoglycaemia protocol
Administration	Massage the measured dose to a surface of the buccal mucosa previously dried with sterile gauze.
Compatible With	Do not mix with other medications
Incompatible With	Do not mix with other medications
Interactions	N/A
Monitoring	Monitor blood glucose levels as per Neonatal Hypoglycaemia protocol
Stability	Discard bottle 14 days after opening
Storage	Store at room temperature, protect from light
Adverse Reactions	Adverse reactions to dextrose are rare Irritation of the gastrointestinal tract causing nausea and vomiting is possible. Risk of aspiration if gel is squirted directly into the mouth Avoid contact of gel with eyes as stinging /irritation will occur.
Metabolism	Onset of action 5- 30 minutes

Comments	Dextrose gel is primarily for well babies on the postnatal ward to avoid admission to NICU and separation from their mother which may impact on the ability to establish breastfeeding
References	1. http://www.waikatodhb.health.nz/assets/directory-of-our-services/Waikids/sugar-babies/Study-guide.pdf 2. http://www.ncbi.nlm.nih.gov/pubmed/24075361 3. www.anmfonline.org 4. Weston PJ, Harris DL, Battin M, Brown J, Hegarty JE, Harding JE. Oral dextrose gel for the treatment of hypoglycaemia in newborn infants. Cochrane Database of Systematic Reviews 2016, Issue 5. Art. No.: CD011027. DOI: 10.1002/14651858.CD011027.pub2.
Updated By	A Lynn, B Robertshawe, B Dixon, N Austin Aug 2014, June 2015 B Robertshawe Feb 2020 (expiry date reduced to 14 days after opening) A Lynn, B Robertshawe July 2023