

Glucose Management Algorithm

Feed following delivery

POC Glucose

Obtain between **30-90** mins of life for "at risk infants"
*Ensure infant is normothermic (> 36.5°C)

Target = 3 consecutive
POC values ≥ 45mg/dL

<25 mg/dL

- Immediately send serum glucose to confirm POC glucose (**DO NOT DELAY TREATMENT**)
- Administer glucose gel (first dose)
- Breastfeed (limit to 20 min at breast) **AND** provide expressed colostrum **OR**
- Feed EBM or formula 10 mLs if infant is unable to breastfeed
- Notify LIP of critical glucose level

25-44 mg/dL

- Administer glucose gel (first dose)
- Breastfeed (limit to 20 min at breast) **AND** provide expressed colostrum **OR**
- Feed EBM/formula 10 mLs if infant is unable to breastfeed

≥ 45 mg/dL

- Feed per cues
- Monitor for signs of hypoglycemia
- Monitor POC glucose per protocol for gestational age and population

If any subsequent POC glucose falls below 45mg/dL in this category, administer glucose gel and repeat POC in 60 minutes

Repeat POC glucose 60 minutes after first dose of glucose gel

Repeat <25 mg/dL

- Administer glucose gel (second dose)
- Feed EBM or formula 10 mLs
- Notify LIP of critical glucose level
- *Consider consult NICU/SCN*

Repeat 25-44 mg/dL

- Administer glucose gel (second dose)
- Breastfeed (limit to 20 min at breast) **AND** supplement with EBM or formula 10 mLs

Repeat ≥ 45 mg/dL

- Feed per cues
- Monitor for signs of hypoglycemia
- Monitor POC glucose per protocol for gestational age and population

Repeat POC glucose 60 minutes after second dose of glucose gel

Repeat <45 mg/dL

- Administer glucose gel (third dose)
- Feed EBM or formula 10 mLs
- Notify LIP of persistently low glucose results
- *Consider transfer to NICU/SCN*

KEY ADMINISTRATION PRINCIPALS

Gel is administered in the **first 24 hours** of life only

Breast milk feeds and/or supplementation with EBM/formula is **required** with administration of glucose gel

Maximum 3 doses of glucose gel is given in 24 hours

Repeat ≥ 45 mg/dL

- Feed per cues
- Monitor for signs of hypoglycemia
- Monitor POC glucose per protocol for gestational age and population

Definitions:

- POC = point of care
- EBM = expressed breast milk