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- Nursing Practice Stds.
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Unit/Department of Origin: ISCC, FMCC, Birth Center, L&D

Other Approval:

POLICY STATEMENT:

- I. To provide guidelines for early identification and appropriate management of the infant with a low blood glucose level.
 - A. The following groups of infants should have a bedside glucose screen within 30 minutes of life regardless of baby's location:
 1. Infants born to diet-controlled diabetic mothers (** For infants born to medication-controlled diabetic mothers, refer to "Infant of the Diabetic Mother – Medication Controlled" policy)
 2. Term infants with birth weight > 4 kg (8 lbs., 13 oz)
 3. Term infants with birth weight < 2.5 kg (5 lbs., 9 oz)
 4. Infants < 37 weeks gestation
 5. Infants who have had traumatic deliveries and/or Apgar Score < 7 at five minutes
 6. The smaller of discordant twins (defined as \geq 20% weight difference between infants)
 - B. Infants exhibiting the following signs and symptoms of hypoglycemia should have a bedside glucose screen when these occur:
 1. Temperature < 97 degrees
 2. Hypertonia or lethargy
 3. Jittery movements and/or seizure-like activity
 4. Infants with suspected polycythemia
 5. Infants with suspected sepsis
 6. Abnormal cry
 7. Poor feeding
 8. Diaphoresis
 9. Irritability
 10. Pallor
 11. Tachypnea > 60
 12. Apnea
 - C. If bedside glucose is \leq 30 and infant is asymptomatic: ***NOTE – Symptomatic infants should be transferred directly to ISCC**
 1. Draw a *stat* lab glucose and a repeat bedside glucose from the same sample and notify MD/NNP/PNP immediately.
 2. Consider IV or give formula by finger/syringe/bottle per provider order.
 3. Recheck in 15 minutes. If the infant feeds poorly or needs to be NPO, with MD/NNP order start IV and bolus (1 to 2 cc/kg) of D10W to be followed by an infusion of D10W at 4 cc per kg/hr (7 mg/kg/min glucose).

4. If the second bedside glucose is ≤ 45 , consult with pediatric provider and/or ISCC staff about a possible transfer of the infant to the ISCC.
- D. If the bedside glucose screen is < 45 and the infant is significantly symptomatic so that enteral feedings cannot safely be given, obtain a *stat* lab glucose and transfer the infant to the ISCC for possible IV treatment.
- E. If the bedside glucose screen is 30-45, and the infant is not significantly symptomatic, the infant will be put to breast (if a breast fed baby); formula infants will be fed 15 to 20 cc of formula. A repeat bedside glucose will be drawn 30 minutes after feeding. If the repeat test is <45 or if the infant does not feed, obtain a *stat* lab glucose and consult with pediatric provider and/or ISCC staff about a possible transfer of the infant to ISCC
- F. In an asymptomatic term or near-term infant, if the bedside glucose is greater than 45, no further screens are needed unless the infant becomes symptomatic.
- G. Infants with persistent low bedside glucose should be considered for sepsis evaluation.

RESPONSIBLE PARTY: ISCC, L&D, FMCC Staff

EQUIPMENT:

- Bedside glucose meter
- Alcohol or Chlorhexidine
- Gauze with tape or bandaid
- Safety flow lancet
- Nipple and bottle
- Formula
- 5 French gavage tube (for finger feeding)
- 10 or 20 cc syringe (if syringe feeding)

PROCEDURE:

1. Perform bedside glucose test according to Blood Glucose Test for Point of Care Policy and Procedure and Blood Collection Heelstick / Fingerstick Policy and Procedure.

REFERENCES:

- American Academy of Pediatrics; Policy Statement: Routine Evaluation of Blood Pressure, Hematocrit, and Glucose in Newborns (RE9322). *Pediatrics*. 1993; 92: 474-476.
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- Merenstein, G.B., & Gardner, S.L. (2010). *Handbook of Neonatal Intensive Care*. (7th ed.) St. Louis. Mosby.
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- Polin, R. & Yoder, M.C. (2007). *Workbook in practical neonatology* (4th ed.) Philadelphia. Saunders.
- Verklan, M., & Walden, M. (2010) *Core Curriculum for Neonatal Intensive Care Nursing*. (4rd ed.) St. Louis. Saunders.