For Asymptomatic High Risk Infants (First 24 hours of Life)

Term LGA (greater than 4000 g); Infants of diabetic mother; Term SGA (less than 2500 g); Late Preterm Infants less than 37 0/7 weeks gestation

**Step 1:** Feed Infant within 1 hour of birth
**Step 2:** Obtain CBG 1 hour after start of feed and follow protocol:

<table>
<thead>
<tr>
<th>Blood Glucose</th>
<th>Treatment</th>
<th>Next actions</th>
</tr>
</thead>
</table>
| CBG less than OR equal to 25 mg/dl | While awaiting transfer to NICU for IV Dextrose administration, initiate the following:  
- Administer 40% glucose gel via buccal mucosa with 30-second massage with gloved finger. See chart for weight-based dose.  
- Feed (a minimum of 5-10 minutes) infant breastmilk, expressed breastmilk, banked breastmilk, or formula by bottle (per mother’s feeding preference). |  
- Confirm with serum glucose (heelstick collection by nurse)  
- Call LIP and NICU STABLE Team to arrange transfer to NICU |
| CBG 26-39 mg/dl |  
- Administer 40% glucose gel via buccal mucosa with 30-second massage with gloved finger. See chart for weight-based dose.  
- Feed (a minimum of 5-10 minutes) infant breastmilk, expressed breastmilk, banked breastmilk or formula by bottle (per mother’s feeding preference). | Recheck CBG 30 minutes AFTER glucose gel dose  
- If CBG less than or equal to 25 mg/dl follow protocol for CBG less than or equal to 25  
- If CBG 26-39 mg/dl on second check, repeat treatment  
- If CBG 26-39 mg/dl on third check (after 2 glucose gel treatments), notify LIP and NICU STABLE Team to arrange transfer to NICU  
- If CBG greater than or equal to 40 mg/dl follow protocol for CBG greater than or equal to 40 |
| CBG greater than or equal to 40 mg/dl |  
- Feed every 2-3 hours |  
- Obtain CBG prior to each feed. Ensure that CBG is at least 2 hours from the last CBG.  
- Once CBG is greater than or equal to 40 mg/dl x 2, can recheck CBG every other feed until 24 hours of age |

**Definition of Feeding**

*If infant does not meet definition of feeding AND is not maintaining appropriate blood glucose levels, consider infant symptomatic and follow Symptomatic Protocol.

**Breast Feeding Infant**
Facilitate nursing at the breast with rhythmic suck and audible swallows. If infant is not breastfeeding within 15 minutes, initiate hand expression and feed infant 1-3 mL of expressed colostrum. If no colostrum feed infant banked breast milk if mother desires. Otherwise, feed 15 mL of 20 calorie formula of choice.

**Formula Fed Infant**
Feed 15 mL of 20-calorie formula.

**Symptomatic Infants (First 24 hours of Life)**

**May not give more than 2 doses of 40% Glucose Gel. Transfer infant to NICU for IV glucose treatment.**
If major symptoms of hypoglycemia present (apnea, lethargy, or seizure), call LIP and NICU STABLE Team for transfer orders to NICU.

Regardless of whether a neonate is at risk, you should monitor the neonate for signs of hypoglycemia, including jitteriness, cyanosis, weak or high-pitched cry, eye rolling, feeding difficulty, and persistent tachypnea. These signs aren’t specific to hypoglycemia; however, if they’re present, you should assess the neonate’s blood glucose level immediately.

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  - Feed (a minimum of 5-10 minutes) infant breastmilk, expressed breastmilk, banked breastmilk, or formula by bottle (per mother’s feeding preference). | Confirm with serum glucose (heelstick collection by nurse)  
  - Call LIP and NICU STABLE team to arrange transfer to NICU |
| CBG 26-39 mg/dl |  
  - Administer 40% glucose gel via buccal mucosa with 30 second massage with gloved finger. See chart for weight-based dose.  
  - Feed (a minimum of 5-10 minutes) infant with breastmilk, expressed breastmilk, banked breastmilk, or formula by bottle (per mother’s feeding preference) |  
  Recheck CBG 30 minutes AFTER glucose gel dose  
  - If CBG less than or equal to 25 mg/dl follow protocol for CBG less than or equal to 25  
  - If CBG 26-39 mg/dl on second check, repeat treatment  
  - If CBG 26-39 mg/dl on third check (after 2 glucose gel treatments), notify LIP and STABLE Team to arrange transfer to NICU  
  - If CBG greater than or equal to 40 mg/dl follow protocol for CBG greater than or equal to 40 |
| CBG greater than or equal to 40 mg/dl |  
  Call LIP for further orders if initial CBG is greater than 40 mg/dL. |  
  If subsequent CBG is greater than or equal to 40 and hypoglycemia and symptoms are resolved, proceed with the following: Feed every 2-3 hours  
  - Obtain CBG prior to each feed. Ensure that CBG is at least 2 hours from the last CBG.  
  - Once CBG is greater than or equal to 40 mg/dL times 2, can recheck CBG every other feed until 24 hours of age.  
  *Call LIP if any other concerns with ongoing symptoms. |

### Guidelines for 40% Glucose Gel Dosing (400mg/mL) per buccal (inner cheek) mucosa with 30 second massage

<table>
<thead>
<tr>
<th>Birth weight (kg)</th>
<th>Dose (mg)</th>
<th>Amount (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0 – 2.25</td>
<td>400</td>
<td>1</td>
</tr>
<tr>
<td>2.251 – 2.75</td>
<td>500</td>
<td>1.25</td>
</tr>
<tr>
<td>2.751 – 3.25</td>
<td>600</td>
<td>1.5</td>
</tr>
<tr>
<td>3.251 – 3.75</td>
<td>700</td>
<td>1.75</td>
</tr>
<tr>
<td>3.751 – 4.25</td>
<td>800</td>
<td>2</td>
</tr>
<tr>
<td>4.251 – 4.75</td>
<td>900</td>
<td>2.25</td>
</tr>
<tr>
<td>4.751 – 5.25</td>
<td>1000</td>
<td>2.5</td>
</tr>
</tbody>
</table>