

NEONATAL HYPOGLYCEMIA

SYMPTOMATIC HYPOGLYCEMIA (BG < 40 MG/DL) – NOTIFY LIP STAT Provide glucose gel 0.5 mL/kg

Asymptomatic Infant with Risk Factors*

(To be used for infants in the first 48 hours of life)

≥ 46 mg/dL

BIRTH THROUGH 4 HOURS OF LIFE:

- First hour: Uninterrupted skin to skin
- Initiate first feed by 1 hour of life
- Obtain BG at 90 minutes of life

<25 MG/DL

- Continue skin to skin
- Give dextrose gel + BF
- If poor latch, feed measurable amount +
- Notify NBN LIP
- Recheck BG in 1 hour

25 - 40 MG/DL

- Continue skin to skin
- Give dextrose gel + BF
- If poor latch, feed measurable amount +
- Recheck BG in 1 hour

> 40 MG/DL

ROUTINE CARE

(See box to right)

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If blood glucose is < 40 mg/dL 1 hour after second dose of dextrose gel, **notify NBN LIP**. Continue skin to skin.

DEXTROSE GEL DOSING GUIDELINES

Dextrose 40% Gel (200 mg/kg)

Dose 0.5 mL/kg - massage into buccal mucosa

- ** Risk Factors- IDM/GDM, <37 weeks, initial Apgar <6, maternal betablocker, no prenatal care, SGA, LGA (see page 2)
- Measurable supplementation: 3-5 mL/kg expressed colostrum / donor milk / formula.
- ** Normal = BG \geq 41 mg/dL (birth 4 hrs) or \geq 46 mg/dL (after 4 hrs)

AFTER 4 HOURS OF LIFE:		
 Feed at least every 2-3 hours Check BG prior to each feeding 		
< 35 mg/dL	Give dextrose gel (max 3 doses) BF or feed measureable amount if poor latch + Call NBN LIP, re-check BG in 1 hour	
35 – 45 mg/dL	Give dextrose gel (max 3 doses) Feed and re-check BG in 1 hour If no improvement, notify NBN LIP	

Three normal** consecutive pre-prandial BGs = PASS

Feed on demand at least every 2-3 hours

Call NBN LIP if infant has not passed protocol by 12 hours of life.

If infant required supplementation to PASS,

continue to supplement and discuss feeding plan with LIP.

	KEY LEARNING POINTS				
	Symptoms of Hypoglycemia		Interventions to Minimize Hypoglycemia		
•	Poor feeding Irritability Tremors Jitteriness Exaggerated Moro	Poor tonePersistent hypothermiaLethargySeizure	 Keep infant skin-to-skin Avoid cold stress Warm heel before obtaining BG Assist with latch/feeding 		

Gender/Gestation Growth Chart Criteria

35-36 6/7 weeks FENTON curve, ≥ 37 weeks WHO curve

Gestational Age	Male <10% SGA	Male >90% LGA	Female <10% SGA	Female >90% LGA
35	1950 g	3050 g	1850 g	2900 g
36	2200 g	3300 g	2100 g	3200 g
≥ 37 weeks	2760 g	4000 g	2680 g	3850 g

Maternal	Beta-B	lockers
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labetalol, metoprolol, propranolol, carvediol, esmolol, atenolol, pindolol, sotalol

Algorithm Key		
BG	Blood glucose	
BF	Breastfeed	
LIP	Licensed independent practitioner	
IDM	Infant of a diabetic mother	
GDM	Gestational diabetes mellitus	
LGA	Large for gestational age	
SGA	Small for gestational age	
LPT	Late preterm infant	

Gel Administration

DEXTROSE GEL DOSING GUIDELINES Recommended dose = 0.5mL/kg Volume of gel to Birthweight administer > 2 - 2.5 kg1.25 mL > 2.5 - 3 kg1.5 mL > 3 - 3.5 kg1.75 mL > 3.5 - 4 kg2 mL > 4 - 4.5 kg2.25 mL > 4.5 - 5 kg2.5 mL LIMITS: 1 dose per hour 3 total doses per infant



Squeeze weight based dose into syringe



Place partial dose on latex free gloved finger



Dry the buccal cavities with a sterile 2 x 2



Massage into buccal mucosa alternating sides until dose is complete.