



MDPQC

Newborn Hypoglycemia Policy Guidelines

Maryland hospitals should have a newborn hypoglycemia policy (reviewed and updated in the last two years) that contains a standardized plan for screening infants for hypoglycemia, as well as a management plan for treatment of infants with hypoglycemia.

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Screening should include, at a minimum, the following components in alignment with both AAP and PES recommendations:

If...	Then...
Infant is symptomatic	Screen, regardless of risk
Late preterm infant (34 weeks, to 36 weeks and 6 days)	Test before each feed for the first 24 hours of life
Small for gestational age infant (based on being less than the 10th percentile for sex and gestation)	
Infant of diabetic mother	Test before each feed for the first 12 hours of life
Large for gestational age infant (based on being greater than the 90th percentile for sex and gestation)	

Institutions can consider expanded inclusion criteria based on PES recommendations, but must carefully consider these criteria in light of their patient populations:

- Postmature delivery
- Family history of genetic forms of hypoglycemia (such as congenital hyperinsulinism or hypopituitarism)
- Congenital syndromes (such as Beckwith-Wiedemann)
- Abnormal physical features (such as midline facial deformations, microphallus)
- Perinatal stress (birth asphyxia/ischemia, cesarean delivery, maternal preeclampsia/eclampsia or hypertension, meconium aspiration syndrome, erythroblastosis fetalis, polycythemia, hypothermia)

References for Consideration:

- Harris, Deborah L et al. Dextrose gel for neonatal hypoglycemia (the Sugar Babies Study): a randomised, double-blind, placebo-controlled trial. *The Lancet*, Volume 382, Issue 9910, 2077 - 2083
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- Alecia Thompson-Branch, Thomas Havranek; Neonatal Hypoglycemia. *Pediatr Rev* April 2017; 38 (4): 147-157. <https://doi.org/10.1542/pir.2016-0063>
- Thornton PS, Stanley CA, De Leon DD, Harris D, Haymond MW, Hussain K, Levitsky LL, Murad MH, Rozance PJ, Simmons RA, Sperling MA, Weinstein DA, White NH, Wolfsdorf JI; Pediatric Endocrine Society. Recommendations from the Pediatric Endocrine Society for Evaluation and Management of Persistent Hypoglycemia in Neonates, Infants, and Children. *J Pediatr*. 2015 Aug;167(2):238-45. doi: 10.1016/j.jpeds.2015.03.057. Epub 2015 May 6. PMID: 25957977.