

NEWBORN SCREENING NEWSLETTER

JULY 15 2013



Change in Newborn Screening Reference Ranges

Effective July 18, 2013 the State Laboratory will be changing the results algorithms for Galactosemia and Maple Syrup Urine Disease (MSUD). The changes for the analytes that serve as markers for these conditions will be as given below. These changes have been reviewed by the Ohio Department of Health Newborn Screening Advisory Council. Please share this information with your laboratory staff, IT staff, and others who need to know this info.

Analyte Range		Risk Level
Leucine < 400 µmol/L	Valine < 350 µmol/L	Low Risk for MSUD
Leucine < 400 µmol/L	Valine > 350 µmol/L	Low Risk for MSUD
Leucine > 400 µmol/L	Valine < 350 µmol/L	Moderate Risk for MSUD
Leucine > 400 µmol/L	Valine > 350 µmol/L	Elevated Risk for MSUD
GALT > 1.7 U/gHb	RBC transfusion - No	Low Risk for Galactosemia
GALT > 1.7 U/gHb	RBC transfusion - Yes	Inconclusive for Galactosemia
GALT ≤ 1.7 U/gHb		Elevated Risk for Galactosemia

- *Total Galactose will be reported but will not factor in the risk calculation*

You will be seeing some changes to the NBS cards

The newborn screening cards which will be available in August will have a few changes to help improve data quality and the accuracy of screening results.

- Key fields will be highlighted in yellow.
 - (6) Birth Date and Birth Time
 - (8) Birth Weight
 - (11) RBC Transfusion?
 - (12) Feedings - only TPN highlight
 - (29) Collect Date and Collect Time
- These fields are critical in the interpretation of the screening results.
- Errors in completing these fields may result in inaccurate or inconclusive screening results.
- Please review these fields for accuracy before shipping your samples to the Ohio Public Health Laboratories.

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