Missouri Guidelines for Newborn Screening Specimens from Premature, Low Birth Weight, Sick or NICU Infants

Infant Category	1 st Specimen	2 nd Specimen	3 rd Specimen	4 th Specimen
CATEGORY – A Applies to ill or premature infants who are ≥ 34 weeks gestational age <u>and</u> $\geq 2,000$ grams at birth	24 – 48 hrs of age (1)	7 – 14 days of age (2)	N/A	N/A
CATEGORY – B Applies to premature infants who are < 34 weeks gestational age or < 2,000 grams at birth	24 – 48 hrs of age (1)	7 – 14 days of age (2)	28 days of age (3)	N/A
CATEGORY – C Applies if pre-RBC transfusion specimen is collected at < 24 hrs of age	Collect before RBC transfusion (4)	24 – 48 hrs after 1 st RBC transfusion (5)	7 – 14 days of age (2)	28 days of age (If < 34 weeks gestation or < 2,000 grams at birth) (3)
CATEGORY – D Applies if specimen is NOT collected PRIOR to an RBC transfusion	24 – 48 hrs after 1 st RBC transfusion (5)	7 – 14 days of age (2)	30 days after last RBC transfusion (6)	90 days after last RBC transfusion (7)

<u>Note</u>: Infants on **TPN** should follow the appropriate category above regardless of TPN feeding. The above guidelines should be correlated alongside any abnormal result information received on the newborn screening laboratory reports.

Updated: 2/15/2015

KEY

Missouri Guidelines for NICU Newborn Screening Specimens

Code	<u>Description</u>
1	Specimen supports timely detection of newborn screening conditions.
2	Missouri Department of Health Rules require a repeat newborn screen collected at 7 to 14 days-of-age on all ill and premature infants to support detection of conditions that may not have been detected in previous specimens.
3	A newborn screen collected at 28 days-of-age is recommended for all infants who are less than 34 weeks gestational age <u>or</u> less than 2,000 grams at birth to improve the detection of delayed onset metabolic and endocrine conditions for which ill and premature infants are at higher risk.
4	Acceptable specimen for the detection of galactosemia, hemoglobinopathies, biotinidase deficiency and fatty acid conditions.
5	Specimens necessary for the timely detection of conditions other than galactosemia, hemoglobinopathies and biotinidase defieciency.
6	Acceptable post-transfusion specimen for the detection of galactosemia and biotinidase deficiency.
7	Acceptable post-transfusion specimen for the detection of hemoglobinopathies.

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