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

Infant Category	1st Specimen	2nd Specimen	3rd Specimen	4th Specimen
CORE CATEGORY applies to all NICU infants except those found in the two categories below.	24 – 48 hrs of age (1)	7 – 14 days of age (2)	28 days of age or at discharge if sooner (2)	N/A
Pre-transfusion specimen collected at less than 24 hrs of age	Collect before RBC transfusion (3)	24 – 48 hrs after 1st RBC transfusion (4)	7 – 14 days of age (2)	28 days of age or at discharge if sooner (2)
NOT collected PRIOR to RBC transfusion	24 – 48 hrs after 1st RBC transfusion (4)	7 – 14 days of age (2)	30 days after last RBC transfusion (5)	90 days after last RBC transfusion (6)

Note: Infants on **TPN** should follow the CORE category above unless one of the other categories applies.

The above guidelines should be correlated alongside any abnormal result information on the laboratory reports.

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KEY

Missouri Guidelines for NICU Newborn Screening Specimens

Code	Description
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. A copy of Missouri Rules for Collection of Newborn Screens is located on the State Newborn Screening Laboratory Website: http://health.mo.gov/lab/newborn/ In addition to this, a third newborn screen collected at 28 days-of-age is now **recommended** for the detection of delayed onset metabolic and endocrine conditions for which ill and premature infants are at higher risk.
3	Acceptable specimen for the detection of galactosemia, hemoglobinopathies, biotinidase deficiency and fatty acid conditions.
4	Specimen necessary for the timely detection of conditions other than galactosemia, hemoglobinopathies and biotinidase deficiency.
5	Acceptable post-transfusion specimen for the detection of galactosemia and biotinidase deficiency.
6	Acceptable post-transfusion specimen for the detection of hemoglobinopathies.

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