

NEWBORN SCREENING

QUALITY IMPROVEMENT AUGUST 26, 2016



The Ohio Newborn Screening Program is committed to providing high quality newborn screening and follow-up of at-risk results. High quality newborn screening starts at the hospital with the completion of the demographic data, collecting the blood spots, and shipping the specimens. It is important for hospitals to know how they are performing these newborn screening activities. Each hospital will be sent a quarterly Newborn Screening Quality Assurance Notification that shows your facilities performance for key metrics as compared to the rest of the state. Below is a summary of the data fields included in the report.

- 1) **Covering the period:** This date range indicates the newborn screens (NBS) included in the report. Data is grouped by the date the sample was collected and the collection facility as reported on the NBS kit.
- 2) **Total NBS samples submitted:** A count of NBS received by the lab from your facility based on the date the NBS was collected.
- 3) **Initial NBS samples submitted:** A count of NBS received by the laboratory that are the first satisfactory Ohio screen for an infant.
- 4) **Repeat NBS samples submitted:** A count of NBS received by the laboratory that are collected at some point after an initial NBS.
- 5) **Unsatisfactory NBS samples submitted:** A count of NBS received by the laboratory that are unsatisfactory for testing and for which another NBS is required. This count includes babies not screened due to parental religious objections.
- 6) **Initial NBS sample collected before 24 hours of age:** A count of initial NBS received by the laboratory that report a collection time that is less than 24 hours after the birth time. NBS should be collected between 24 and 48 hours unless there are extenuating circumstances including: early discharge or transfer, prior to administration of red blood cell products, and prior to surgery.
- 7) **Initial NBS sample collected after 48 hours of age:** A count of initial NBS received by the laboratory that report a collection time that is more than 48 hours after the birth time. It is recommended that NBS be collected between 24 and 48 hours of birth. Screening should only be delayed if an infant is too medically fragile for specimen collection to be performed between 24 and 48 hours.
- 8) **Initial NBS sample collected after transfusion:** A count of initial NBS received by the laboratory that report that the baby has received Red Blood Cell transfusion prior to NBS collection. NBS should be drawn prior to RBC transfusion even if baby is less than 24 hours. This is unavoidable when the baby has received intrauterine transfusions.
- 9) **Samples with shipping time greater than 48 hours:** A count of initial NBS received by the laboratory for which more than 48 hours have elapsed from when a NBS was collected until it arrived at the lab. It is recommended that all NBS be picked up by the courier within 24 hours of blood collection. Overnight courier service is provided to hospitals 6 days a week (Sunday - Friday). No courier service is available on Saturday. The shipping time of NBS collected on Friday afternoon or Saturday may be delayed by 24 hours due to the courier schedule. Fewer than 13% of NBS should have a shipping time over 48 hours.
- 10) **Samples missing info: Age at Collection:** A count of NBS records missing age information at the time this report was produced. Age is calculated using the date and time of birth and the date and time of collection. If any of this information is blank, then the age cannot be calculated.
- 11) **Samples missing info: Birth Weight:** A count of NBS records missing weight information at the time this report was produced. If the baby's weight was not reported on the NBS kit, but was corrected at a later time, then that record will not be counted.
- 12) **Samples missing info: Transfusion Status:** A count of NBS that do not have transfusion status checked and the date field for transfusion is blank.
- 13) **Samples missing info: Feeding Type:** A count of NBS that have no feeding type checked.

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