



Newborn Screening News

Fall 2019

The Michigan Department of Health and Human Services (MDHHS) Newborn Screening Follow-up Program works together with the State Newborn Screening Laboratory and coordinating centers to find and treat infants who need early medical care.



NBS Quarterly Reports and Stellar Performance

During the second quarter of 2019, two hospitals met all seven of the NBS performance goals. We would like to congratulate the following hospitals on their impressive efforts!

- Henry Ford Allegiance Health
- Munson Healthcare Grayling

Performance Goals for NBS Quarterly Reports

1. <2% of screens are collected >36 hours after birth
2. >90% of screens arrive in the state laboratory by the appropriate day
3. <1% of screens are unsatisfactory
4. >95% of electronic birth certificates have the NBS card number recorded
5. >90% of specimens have a returned BioTrust for Health consent form that is completed appropriately
6. >90% of newborns with a dried blood spot have pulse oximetry screening results reported
7. <1% of specimens have errors in birth date/time and/or specimen collection date/time on the NBS card

We encourage you to use the information in the quarterly reports to improve your part of the NBS system. If you have any questions, please call the NBS Follow-up Program at 517-335-4181.

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Newborn Screening Awareness Month

Governor Gretchen Whitmer declared September 2019 Newborn Screening Awareness month. The Newborn Screening Program celebrated with many activities to bring awareness to newborn screening. Throughout the month the program had posts on the Michigan Department of Health and Human Services (MDHHS) Facebook page, a display in the lobby of the MDHHS building, and drafted a press release which resulted in the following articles:



<http://news.pioneergroup.com/manisteeneews/2019/09/06/mdhhs-to-provide-more-options-for-newborn-screenings/>
And
<https://www.upmatters.com/news/new-test-part-of-newborn-screening-awareness-month/>

NBS Follow-up Program Contact Information
Phone: 517-335-4181
Email: newbornscreening@michigan.gov



Newborn Screening Card Fee Change:

On October 1, 2019, the cost for the initial newborn screening card increased to \$135.29 (from \$130.36). The cost for the repeat (pink) cards changed to \$122.60 (from \$117.69). The fee supports the Newborn Screening Laboratory, Follow-up, and Coordinating Centers. The fee is adjusted annually to reflect changes in the Detroit Consumer Price Index and to cover the cost of adding new disorders to the newborn screening panel.

The Detroit Consumer Price Index increased 0.1% this year. To reflect this change, MDHHS applied a \$0.13 increase to the cost of each initial (blue) newborn screening card and a \$0.11 increase to the cost of each repeat (pink) card purchased. An additional fee of \$4.80 was included to support screening for X-linked adrenoleukodystrophy.



If you have questions regarding the fee, please contact the Newborn Screening Follow-up Program at 517-335-4181.

A New Look to the Newborn Screening Card

Later this year or early next year, expect to see a different look to the newborn screening card. Most of the fields have remained the same but some have changed:

- 'Ambiguous' has been added as an option under Gender.
- 'Arab descent' was replaced with 'Middle Eastern descent' on the first sample card.
- 'Capillary tube' was replaced with 'venipuncture' on both cards. Note: the NBS Program discourages the use of capillary tubes to collect the blood spot specimen.
- If the baby is not being released to the care of the birth mother upon discharge, provide the adoptive parent, foster parent, or adoption agency information in the MOTHER section and select the appropriate option at the top of the MOTHER section.
- A notes field was added where the expiration date had been located on previous cards.
- The expiration date was moved to the middle right-hand side.
- The following fields were removed from the repeat sample card: race, ethnicity, hepatitis B test date and result, and mother's medical record number.

The instructions for completing the newborn screening card will be updated in the Michigan Newborn Screening Guide for Hospitals once the new cards are in circulation.

A New Look to the Newborn Screening Card

Newborn Screening - Michigan Department of Health and Human Services
Bureau of Laboratories P.O. Box 30689 3350 N. MLK Jr. Blvd. Lansing MI 48909
Print Firmly with Black Pen

DCB-1153 Printed: 11/17

DON'T USE RED INK

BABY

LAST NAME _____ FIRST NAME _____ GENDER MALE FEMALE AMBIGUOUS

BIRTH DATE BIRTH TIME (Military) BIRTH WEIGHT (grams) _____ WKS GESTATION _____ BIRTH ORDER A B C D ANTIBIOTICS? NO YES

SPECIMEN DATE COLLECTION TIME (Military) COLLECTED BY: _____ NICU or SPECIAL CARE? NO NICU SP CARE ANY RBC TRANSFUSION? NO YES → TRANS. START TIME _____

MEDICAL RECORD # _____ ETHNICITY HISPANIC NON-HISPANIC RACE WHITE AMERICAN INDIAN MIDDLE EASTERN DESCENT BLACK ASIAN/PACIFIC ISLANDER MULTI-RACIAL

TPN / AMINO ACIDS NO YES OTHER FEEDING: BREAST MILK-BASE SOY NONE

TYPE OF COLLECTION: Heel Stick Venipuncture Line Draw (central, other _____) Type of Flush (heparin, saline, other _____)

NOT BIRTH PARENT: ADOPTIVE PARENT FOSTER PARENT ADOPTION AGENCY

MOTHER

LAST NAME _____ FIRST NAME _____

ADDRESS _____ PHONE _____

CITY _____ STATE _____ ZIP _____

MEDICAL RECORD # _____ BIRTH DATE HEPATITIS B SURFACE ANTIGEN (HBsAg) TEST DATE RESULT POSITIVE NEGATIVE

PROVIDER

LAST NAME _____ PHONE _____

FIRST NAME _____ FAX _____

SUBMITTER

SUBMITTER NAME _____ PHONE _____ HOSPITAL CODE (if applicable)

ADDRESS _____

CITY _____ STATE _____ ZIP _____

BIRTH HOSPITAL (if different from submitter) _____ MDHHS USE ONLY

DHHS USE ONLY

EXPIRES: 2022-03-31

LOT 111064 / 30510002

MDHHS By Authority of Act 568 P.A. MCLA 333.5431

Perkin Elmer 226

2809701

FIRST SAMPLE

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Bureau of Laboratories P.O. Box 30689 3350 N. MLK Jr. Blvd. Lansing MI 48909
Print Firmly with Black Pen

DCB-1153 Printed: 11/17

DON'T USE RED INK

BABY

LAST NAME _____ FIRST NAME _____ GENDER MALE FEMALE AMBIGUOUS

BIRTH DATE BIRTH TIME (Military) CURRENT WT. (grams) _____ BIRTH ORDER A B C D ANTIBIOTICS? NO YES

SPECIMEN DATE COLLECTION TIME (Military) COLLECTED BY: _____ NICU or SPECIAL CARE? NO NICU SP CARE ANY RBC TRANSFUSION? NO YES → TRANS. START TIME _____

MEDICAL RECORD # _____ TPN / AMINO ACIDS NO YES OTHER FEEDING: BREAST MILK-BASE SOY NONE

TYPE OF COLLECTION: Heel Stick Venipuncture Line Draw (central, other _____) Type of Flush (heparin, saline, other _____)

NOT BIRTH PARENT: ADOPTIVE PARENT FOSTER PARENT ADOPTION AGENCY

MOTHER

LAST NAME _____ FIRST NAME _____

ADDRESS _____ PHONE _____ BIRTH DATE

CITY _____ STATE _____ ZIP _____

PROVIDER

LAST NAME _____ PHONE _____

FIRST NAME _____ FAX _____

SUBMITTER

SUBMITTER NAME _____ PHONE _____ HOSPITAL CODE (if applicable)

ADDRESS _____

CITY _____ STATE _____ ZIP _____

BIRTH HOSPITAL (if different from submitter) _____ MDHHS USE ONLY

DHHS USE ONLY

EXPIRES: 2022-03-31

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Perkin Elmer 226

2989601

REPEAT SAMPLE

Hospital Visits

Lois Turbett, nurse consultant for the NBS program, is available to visit any hospital at any location and at any time. Once the visit is scheduled, newborn screening staff assemble this hospital-specific information to send to hospital staff in advance of the visit:

- A specimen transit report covering a recent four-week period.
- Card images of unsatisfactory specimens received during the most recent four quarters.
- Images of cards that had entry errors received during the most recent four quarters.

Information reviewed during the visit includes:

- Information compiled by NBS staff that was sent previously.
- How to order newborn screening cards and educational materials.
- Summary of birth certificate submissions covering a recent two-month period.
- Proper handling of the NBS card, packaging NBS cards for the courier, the hospital's courier log, and any courier concerns staff may have.
- How the hospital reconciles newborn screening results.
- Other topics of interest to the hospital.

Please feel free to contact Lois Turbett to schedule a visit, TurbettL@michigan.gov or 517-335-1966.

NBS Quarterly Report Card Errors Reminder

In the first quarter of 2018, the “NBS cards with incorrect dates/times” metric was added to the NBS hospital quarterly reports. Since following up with potentially wrong dates/times on the NBS cards is a burdensome process for both the NBS laboratory and hospital staff, the metric was intended to alert hospitals of their date and time errors so they could work to reduce them. Since adding this metric, we have noticed many birth and/or collection year errors in the 1st quarter of each year. With 2020 just around the corner, remember to double check the year written on the card to ensure that it is correct.

As a reminder, in the second quarter of 2019, we changed the metric from “NBS cards with incorrect dates/times” to “NBS cards with incorrect demographic data”.

This metric will still include errors in birth date/time and specimen collection date/time but will now also include specimens that have errors in birth weight, transfusion date/time, gestation age, etc. The goal will remain to have less than 1% of specimens with these errors.

The image shows a newborn screening report card form. A red circle highlights the birth date and specimen date fields. The birth date is 01/02/19 and the specimen date is 01/03/18. The form includes fields for last name, first name, gender, birth date, birth time, birth weight, gestation, specimen date, collection time, and various medical and demographic information. The form is labeled 'FIRST SAMPLE' and 'DHHS USE ONLY'.

Expired Cards

Please check your inventory for first and repeat sample cards that are due to expire in January 2020 and use those cards first. The expiration date on these cards is highlighted with pink or blue shading. The expiration date is located in the lower right-hand corner of the NBS card. Cards with a January 2020 expiration date may be used through January 31, 2020.

Unused expired cards can be returned for replacement by completing the "Newborn Screening Card Replacement Form". This form can be found in Appendix 6 of the Newborn Screening Guide for Hospitals. Samples collected after the expiration date will be found unsatisfactory and a repeat screen will be requested.

Upcoming Holiday Courier Schedule

Lower Peninsula Hospitals:

Monday, November 11, 2019 – holiday/Sunday schedule
 Thursday, November 28, 2019 – holiday/Sunday schedule
 Friday, November 29, 2019 – holiday/Sunday schedule
 Tuesday, December 24, 2019 – NO pickup
 Wednesday, December 25, 2019 – holiday/Sunday schedule
 Tuesday, December 31, 2019 – NO pickup
 Wednesday, January 1, 2020 – holiday/Sunday schedule

Upper Peninsula Hospitals:

Thursday, November 28, 2019 – no UPS pickup
 Friday, November 29, 2019 – UPS will pick up
 Tuesday, December 24, 2019– UPS will pick up
 Wednesday, December 25, 2019 – no UPS pickup
 Tuesday, December 31, 2019 – UPS will pick up
 Wednesday, January 1, 2020 – no UPS pickup

Timely Submission of the Birth Certificates

The NBS Program links the NBS and birth certificate records on a weekly basis to look for missed blood spot specimens. Sometimes missed screens are due to valid reasons such as the baby expiring before the screen could be collected. Other times, missed screens could be instances where blood spot specimens had never been collected or were lost after collection.

Michigan law requires that all birth attendants report a birth within five days. Failure to report a birth within five days delays the identification of a missed screen, which could put the health of the newborn at risk if a disorder is not found early.

The Division of Vital Records and Health Statistics plans to roll out a new electronic birth certificate reporting system later this year or early next year. Jeff Duncan, State Registrar, discussed this new system at the NBS conferences on October 17 and 23. The number for the Vital Records Call Center is 517-335-6506.

TECHNICAL ASSISTANCE

Lois Turbett, NBS nurse consultant, is available to work with staff in any hospital that requests help with specimen collection. She can be reached toll-free at 866-673-9939 or by email at turbettl@michigan.gov to answer your questions. Kristen Thompson, NBS Coordinator, is also available to work with hospitals on CCHD pulse oximetry screening and reporting and can be reached at thompsonk23@michigan.gov. Together we can achieve our goal that all children diagnosed through newborn screening receive prompt and careful treatment in order to live the healthiest lives possible.

Please remember to share the quarterly newsletter with staff!

If you have questions please contact the NBS Follow-up Program at 517-335-4181 or newbornscreening@michigan.gov or visit our website at www.Michigan.gov/NewbornScreening