



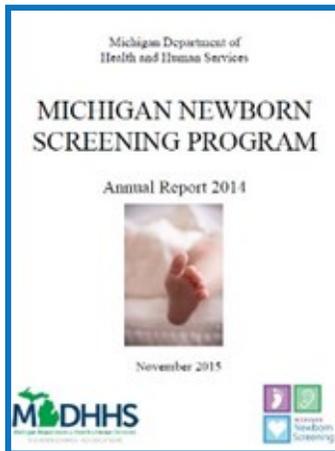
Michigan Department of Health and Human Services

# Newborn Screening News

Spring 2016

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

## Annual Report 2014



Every fall, the Newborn Screening (NBS) Program releases an annual report that provides detailed information about the previous birth year. These reports are available on the NBS Program website ([www.michigan.gov/newbornscreening](http://www.michigan.gov/newbornscreening)) and contain information on updates that occurred during that birth year, the number of babies screened overall and the number identified with disorders on the NBS panel, performance metrics for each disorder including detection rate, false positive rate, and positive predictive value, and quality assurance information including the performance measures on the quarterly reports and time to treatment by disorder.

In 2014, a total of 112,790 infants were screened in Michigan and 259 were diagnosed with disease. Overall, one infant out of 435 screened was diagnosed with one of the disorders included in the NBS panel. Since the NBS Program began in 1965, approximately 5,700 Michigan newborns have been identified with disorders.

Congenital hypothyroidism and sickle cell disease are the most commonly identified disorders, affecting 84 and 52 infants born in 2014, respectively. In addition to disorders included on the panel, nearly 3,000 carriers were detected in 2014, with the majority being carriers for either sickle cell disease (2,654) or cystic fibrosis (296).

## In Case You Missed It: NBS Commemorative Booklet

In honor of the 50th Anniversary of Michigan's Newborn Screening Program in 2015, a commemorative booklet was made to review the beginnings and transformation of the program as well as recognize special milestones throughout the past 50 years.

The booklet highlights the program, when and how disorders were added to Michigan's panel, background on laboratory dried blood spot screening, point of care screening, quality improvement strategies, a look at the BioTrust for Health initiative and a review of follow-up for each group of conditions coupled with family and provider stories.

Limited copies of the booklet are available on request, please contact [tomaskok@michigan.gov](mailto:tomaskok@michigan.gov) for orders. It is also available online at [http://www.michigan.gov/documents/mdch/Newborn\\_Screening\\_Book\\_500007\\_7.pdf](http://www.michigan.gov/documents/mdch/Newborn_Screening_Book_500007_7.pdf).



### NBS Follow-up Program Contact Information

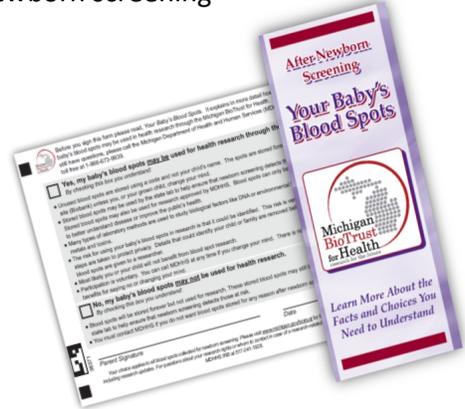
Phone: 517-335-4181

Email: [newbornscreening@michigan.gov](mailto:newbornscreening@michigan.gov)



## New Michigan BioTrust for Health Consent Material Has Arrived!

In our Fall Newsletter we provided an update on anticipated revisions to the BioTrust consent material to comply with federal regulations enacted in 2015. The new and improved BioTrust consent brochures have arrived and are ready for use with a revised BioTrust consent form found on the back of the newborn screening cards. Hospitals and home birth attendants should deplete their current inventory of BioTrust consent brochures and newborn screening cards. All new orders will be filled with the updated material. We are thrilled to announce no disruption to the BioTrust consent process occurred while material was revised to meet the new federal guidelines. This was accomplished through the dedication of MDHHS staff, hospital and homebirth partners. Please visit the BioTrust website at [www.michigan.gov/biotrust](http://www.michigan.gov/biotrust) to view the new BioTrust consent brochure and form. Carrie Langbo, our BioTrust Coordinator, is available to answer any questions, 517-335-6497 or [langboc@michigan.gov](mailto:langboc@michigan.gov).



### The Importance of Mother's Hepatitis B Surface Antigen (HBsAg) Result and Test Date:

Did you know that properly filling out the Newborn Screening (NBS) card could help protect an infant from getting the hepatitis B virus (HBV)? Mother-to-infant transmission of HBV can be prevented with appropriate and timely prophylaxis. The Perinatal Hepatitis B Prevention Program (PHBPP) needs your help to identify HBsAg-positive mothers to ensure infants are being protected from HBV.

Ideally, HBsAg-positive pregnant women are identified and reported prenatally and their infant receives hepatitis B vaccine (HepB) and hepatitis B immune globulin (HBIG) within 12 hours of birth. Unfortunately, not all HBsAg-positive pregnant women are identified prenatally, so it is extremely important that they are identified at delivery.

Entering the mother's HBsAg status on the NBS card accomplishes the following:

- ✓ A stat order is placed for HBsAg testing if **no** documentation of the mother's HBsAg status can be found in her medical record.
- ✓ Serves as a reminder to staff to verify that an order for the timely administration of HepB and HBIG is entered in the medical record of any infant born to an HBsAg-positive mother.
- ✓ Allows the PHBPP to follow-up on all HBsAg-positive cases.

It is important to know that if the mother's HBsAg status is **not** indicated on the NBS card, the PHBPP **will not** see this card and the infant **may be at risk** of HBV infection. Therefore, please make sure that every mother's HBsAg test date and result is entered on the NBS card.

# Spotlight on Unsatisfactory Specimens - Expired Cards

Please check your inventory for expired first and repeat sample cards that may still be in circulation. You can find the expiration date in the lower right-hand corner of the NBS cards. Cards may be used through the last day of the month in which they expire. Samples collected after the expiration date will be found unsatisfactory and a repeat screen will be requested.

Points to remember when collecting the NBS specimen:

1. Wipe away the first drop of blood
2. Apply *only* one large drop of blood to each preprinted circle
3. Apply blood to *only* one side of the card
4. Make sure the blood has soaked through to the other side



Unsatisfactory specimens can result in:

- Infant distress caused by the need for a repeat specimen collection
- Additional work for hospital and NBS staff
- Unnecessary burden on parents who have to bring their baby back for a repeat screen
- Delayed valid test results that could have a negative impact on the health of the baby
- Increased cost to the hospital



## ***NBS Quarterly Reports and Stellar Performance***

During the 4th quarter of 2015, eight hospitals met all six NBS performance goals. We would like to congratulate the following hospitals on their impressive efforts!

- Allegiance Health
- Allegiance Health SCN
- Beaumont Hospital-Grosse Pointe
- Beaumont Hospital-Troy
- Holland Hospital
- McLaren Port Huron
- St. Francis Hospital
- UP Health System-Bell

### 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

We hope you will be able to use 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 1-517-335-4181.



# Important Reminders!

## These are the upcoming State holidays:

(\*Of note: the state lab **will be open** on these holidays)

Monday, May 30th, 2016  
Monday, July 4th, 2016  
Monday, September 5th, 2016



### Lower Peninsula Hospitals:

A1 International will pick up your NBS specimens on all Sunday holidays, including Easter. Quest Diagnostics **will not** pick up your NBS specimens on the following Monday holidays: Memorial Day, Independence Day, and Labor Day.

### Upper Peninsula Hospitals:

UPS **will not** pick up your NBS specimens on the following Monday holidays: Memorial Day, Independence Day, and Labor Day.

## WE ARE MOVING!

The NBS Follow-up Program will be moving to a new building in late May. We will send out more details closer to the move.



## Coming Soon: NBS Training

The NBS Program will be holding a training for hospital staff and midwives in fall 2016. This training will include speakers on a variety of topics related to the NBS process. Look for more detailed information about the trainings and registration information this summer!

**Submitter Code:** Please remember that staff members need to record the correct hospital submitter code on the newborn screening card. The last digit indicates the type of nursery: 0 means regular nursery, 1 means NICU, and 2 means SCN. The submitter code is used to make separate quarterly reports for each unit, so it's important that we can correctly identify which unit submitted each specimen.

**Phone Number:** Please remember only one phone number per provider should be listed on the newborn screening card. Many requestors are using cell phone numbers or multiple different phone numbers for lines in provider offices and the laboratory is receiving new entries every day. Please have hospital staff clean up these lists and include one phone number per provider. Only include on the newborn screening card the doctor who is in charge of the baby's care when the baby leaves the hospital.

**Birth Weight:** Please remember to record birth weight in **grams** on the first sample newborn screening card. Enter the current weight in grams on the repeat sample card.

## 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](mailto:turbettl@michigan.gov) to answer your questions. Keri Urquhart, CCHD nurse educator, is also available to work with hospitals on CCHD pulse oximetry screening and reporting, and can be reached at [urquhartk1@michigan.gov](mailto:urquhartk1@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](mailto:newbornscreening@michigan.gov) or visit our website at [www.michigan.gov/newbornscreening](http://www.michigan.gov/newbornscreening)