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INTRODUCTION

Newborn screening (NBS) saves lives and protects the health of Michigan newborns. Since 1965, all Michigan newborns have been screened shortly after birth to determine if they are at risk for having rare but treatable genetic disorders. If untreated, these disorders can lead to illness, physical disability, intellectual disability, or death. Medication and changes in diet can help prevent many health problems caused by disorders detected by NBS.

Midwives and other homebirth attendants play an important role in guarding the health of newborns whose births they attend. While the disorders included on the NBS panel are rare, approximately 270 Michigan newborns are identified with these disorders each year. The NBS guide is intended to be a reference tool and contains background information, general guidance on common issues related to NBS, specific forms and contact information.

This guide is updated quarterly. For the latest version, please visit the MDHHS newborn screening website.
OVERVIEW OF MICHIGAN NEWBORN SCREENING

Dried Blood Spot Screening

Michigan now screens for more than 50 disorders plus hearing loss and critical congenital heart disease. Appendix 10 contains a complete list of disorders included in the NBS panel. Michigan law mandates that all birth attendants offer NBS. Appendix 1 summarizes Michigan NBS legislation. If parents object to screening, the homebirth attendant should ask the parents to sign a waiver stating that they were informed of the risk to their newborn if screening is declined and return the form to the NBS Program. See Appendix 8 for a sample waiver form for parents who do not want their newborn to be screened. This form is just a sample. Each homebirth attendant should seek legal guidance to develop his/her own refusal form.

Blood specimens should be collected at 24-36 hours of life, ideally 24-30 and air dried for a minimum of three hours. Specimens should be mailed in the pre-paid envelope provided by the NBS Program. Instructions for sending NBS specimens are provided later in this document. Laboratory testing is typically completed within one or two days of specimen receipt, and all NBS results are mailed/faxed to the person who submitted the specimen. The NBS Laboratory would like all providers, including homebirth attendants, to receive NBS results by fax in order to assure prompt receipt. See Appendix 13. NBS Laboratory operations are Monday through Saturday, excluding most State holidays.

The NBS Program is unable to perform stat laboratory testing. If you are caring for a newborn who appears acutely ill, call 9-1-1 and arrange for the newborn to be transported to the nearest hospital emergency department.

It is very important that parents identify a primary care provider (PCP) for their newborn and that all of the PCP’s contact information entered on the NBS card is correct. The NBS Program will notify the PCP immediately if the specimen is:

- Positive for a disorder
- Unsatisfactory for testing
- Early (obtained before 24 hours of life)
Hearing Screening

Approximately 150 hearing impaired newborns are identified annually by newborn hearing screening in Michigan. Michigan has instituted a mandated screening and reporting system for universal newborn hearing screening, therefore each homebirth attendant should have a procedure in place to assist families to obtain a hearing screen for their newborn. The Michigan Early Hearing Detection and Intervention (EHDI) Program is available to assist you in setting up your procedure. A list of Michigan birthing hospitals and respective hearing rescreen sites is maintained on the MDHHS EHDI website.

Hearing screening should be completed no later than one month of age through either of the following methods: otoacoustic emissions (OAE) or automated auditory brainstem response (AABR). Newborns who exhibit evidence of hearing loss should have a hearing assessment by an audiologist no later than three months of age and receive early intervention services no later than six months of age.

The EHDI Program works with families, birth attendants and primary care providers to assure that every Michigan newborn has access to hearing services. See page 23 for additional EHDI contact information.

Critical Congenital Heart Disease Screening

Congenital heart defects are the most common group of birth defects, affecting 9 in 1000 newborns. Critical congenital heart diseases (CCHDs) are those requiring surgery or catheter intervention in the first year of life. CCHDs remain one of the most significant causes of infant death in the United States.

Effective April 1, 2014, the Michigan Department of Health and Human Services (MDHHS) implemented statewide screening of all Michigan newborns for critical congenital heart disease using pulse oximetry. The NBS Program and the CCHD Advisory Committee recommend that newborns be screened as close to 24 hours of age as possible, using the approved MDHHS CCHD Screening Algorithm.

More information about CCHD screening, data reporting and educational materials for healthcare providers and parents are available on the MDHHS CCHD website or by calling the NBS Program at 517-335-4181.
NEWBORN SCREENING PRACTICE AND PROCEDURE

Role of the Homebirth Attendant

The homebirth attendant plays a crucial role in assuring that the NBS process is both effective and efficient. The homebirth attendant fulfills this role by educating parents about NBS, assisting parents to obtain the NBS first sample card, collecting a satisfactory NBS specimen, and assuring prompt delivery of the dried specimen to the NBS Laboratory.

Educating Parents about NBS

The NBS Program provides a variety of educational materials at no cost upon request. This includes *Michigan Newborn Screening Saves Babies* and the *Michigan BioTrust for Health* brochures. Brochures may be ordered by a link available at [www.michigan.gov/nbsorders](http://www.michigan.gov/nbsorders).

Ideally, the homebirth attendant should discuss the purpose and benefits of NBS with parents during prenatal visits. The NBS nurse consultant is available to answer any questions parents might have. See page 21 for contact information. Updated information about NBS is also maintained on the NBS website.

Obtaining the NBS Card

Parents or homebirth attendants should obtain the NBS first sample card one month prior to the client’s expected due date. Payment for the card(s) must be included with the order. A postage-paid return envelope is included with the card ordered for a homebirth. Additional envelopes are provided upon request. See Appendix 5 for ordering information. Orders placed online are usually shipped within two days. Fee-waived requests and payments made by check can take 4-6 weeks to process.

Some families are eligible for a fee-waived card based on WIC income guidelines. See Appendix 7 for ordering information.

Replacement cards are available free of charge for any card purchased that cannot be used. Reasons could include: card pieces are torn or separated, unsatisfactory specimen, wrong demographic information is entered or parents refuse NBS. See Appendix 8 for the *Newborn Screening Card Replacement* form and mailing instructions. Cards that have been submitted to the NBS Laboratory for testing are not eligible for replacement.
Completing the NBS Card

It is extremely important to fill out the NBS card completely and accurately. Press firmly using a black or blue pen and clearly print the information. The card will be scanned into the NBS database, so legibility is critical. The specimen submitter is legally responsible for the accuracy and completeness of the information on the NBS card. Include the following information in the spaces provided:

**INFANT INFORMATION:**

- **INFANT’S NAME:** Record the expected legal last name followed by the first name. If no first name is available at the time of specimen collection, the last name followed by “boy” or “girl” should be used. For single mothers, use the last name specified by the mother (preferred) or the mother’s last name. DO NOT LEAVE THIS AREA BLANK.

- **GENDER:** Completely shade in the appropriate oval to designate newborn’s gender as male or female.

- **BIRTH DATE:** Use a six-digit number (mm/dd/yy) for the date of birth. For example, a birth on January 4, 2017 would be recorded as 010417.

- **BIRTH TIME:** Record time of birth in military time. For example, a birth at 4:40 p.m. would be recorded as 1640. For help with time conversions see Appendix 15.

- **BIRTH WEIGHT, GRAMS:** Record the birth weight in grams in the boxes provided on the first sample (“blue”) card. Do not use pounds and ounces. For help with weight conversions see Appendix 16.

- **CURRENT WEIGHT, GRAMS:** Record the current weight in grams in the boxes provided on the repeat sample (“pink”) card. Do not use pounds and ounces. For help with weight conversions see Appendix 16.

- **WEEKS GESTATION:** Record weeks of gestation at time of birth. Note: This information is requested for both first sample (“blue”) and repeat sample (“pink”) cards.

- **SINGLE BIRTH:** Completely shade in oval for single birth.

- **MULTIPLE BIRTH ORDER:** Completely shade in oval to record birth order by “A”, “B”, “C”, for twins, triplets, etc.

- **ANTIBIOTICS:** Check “antibiotics” if the newborn is currently receiving antibiotics or the mother was receiving ongoing antibiotics at the time of delivery, or if the mother received one dose prior to delivery.

- **SPECIMEN DATE:** Use a six-digit number (mm/dd/yy) representing the date on which the specimen was obtained.

- **COLLECTION TIME:** Record time of specimen collection in military time. For help with time conversion see Appendix 15.

- **COLLECTED BY:** Record initials of person collecting the specimen.

- **NICU/SPECIAL CARE:** This designation is used by hospitals and does not apply to homebirths.

- **RBC TRANSFUSION:** This is not likely to apply to homebirths and may be left blank.

- **MEDICAL RECORD NUMBER-BABY:** This is not likely to apply to homebirths and may be left blank.
✅ **ANY TPN FEEDING:** Completely shade in oval “yes” if the newborn is receiving total parenteral nutrition (TPN) at the time the specimen is obtained -OR- received TPN within 24 hours of specimen collection. This is highly unlikely to apply to homebirths and may be left blank.

✅ **ETHNICITY:** Completely shade in oval for Hispanic or non-Hispanic. Ethnicity should be filled in first and, in addition, one of the six boxes for race should be filled in.

✅ **RACE:** Completely shade in the oval for one of the six racial categories after the designation of Hispanic or non-Hispanic has been selected. If the newborn has a parent in one racial category and the other parent in a different racial category, fill in the Multi-Racial oval. It is very important to fill in either the Hispanic or non-Hispanic box and in addition fill in one of the six boxes for race.

*Example 1:* One parent identifies as Hispanic and both parents identify as Black. The card should be marked Hispanic and Black.

*Example 2:* One parent identifies as Hispanic and White; the other parent identifies as non-Hispanic and Black. The card should be marked Hispanic and Multi-Racial.

*Example 3:* Neither parent identifies as Hispanic. One parent identifies as White; the other parent identifies as Black. The card should be marked non-Hispanic and Multi-Racial.

✅ **TYPE OF COLLECTION:** The preferred collection method is by heel stick with a single drop of blood applied directly to each circle on the filter paper. Check both “heel” and “capillary” if the blood was collected from the heel using a capillary tube. Note that the use of capillary tubes can result in layered, serum, clotted and damaged specimens. Specimens collected by methods other than heel stick are not likely in the homebirth setting.

✅ **OTHER FEEDING:** Check all that apply. For instance, if a mother is both breast and bottle feeding, mark both and indicate the type of formula.

### MOTHER INFORMATION:

✅ **MOTHER’S NAME:** Record last followed by first name. If the newborn is going to be released at birth to adoptive or foster parents, provide contact information of adoptive or foster mother. Please note in black ink above the mother’s name that contact information is for adoptive or foster mother. Do not place sticky notes on the card or use red ink. Neither will be recorded when the card is scanned into the NBS database. If contact information on new parents, foster parents, or the adoption agency is not on the card, the NBS Program will not be able to contact the family if necessary. The NBS Program would like to avoid calling the birth mother if she is no longer responsible for the care of the newborn.

✅ **MOTHER’S ADDRESS:** Record mother’s current street address, followed by city, state and zip code. Information about the mother is needed to locate newborns in need of clinical evaluation or retesting.

✅ **MOTHER’S PHONE:** Record mother’s area code and home telephone number. If the family does not have a phone, please enter a contact phone number, such as that of a community phone.

✅ **MEDICAL RECORD NUMBER-MOTHER:** This is not likely to apply to homebirths and may be left blank.

✅ **BIRTH DATE:** Record the mother’s date of birth (mm/dd/yy).

✅ **HEPATITIS B SURFACE ANTIGEN (HBsAg):** Provide date of test (mm/dd/yy) and completely shade in the appropriate oval to indicate a positive or negative result. If there is no HBsAg test result in the mother’s record, the test should be done immediately. Positive HBsAg results should be reported to the MDHHS Hepatitis B program via phone at 517-335-9943 or fax to 517-335-9855. This important information helps assure that infants at risk receive the proper treatment WITHIN 12 HOURS OF BIRTH.
PROVIDER INFORMATION:

- PROVIDER’S NAME: Record last name, followed by first name, of the primary care provider (PCP) the newborn is expected to see for well-child and sick care. The NBS Program will notify the PCP if a repeat screen is needed or if the infant screens positive for a disorder and confirmatory testing is needed. In most cases, the PCP is not the midwife or birth center.

- PROVIDER’S PHONE: Indicate the PCP’s area code followed by the telephone number. It is very important to provide a complete and correct number. This information is used to contact the PCP with positive screen results and follow-up information.

- PROVIDER’S FAX: Indicate the PCP’s area code followed by fax number. The fax number is needed to forward to the PCP screening results that require further follow-up.

SUBMITTER INFORMATION:

- SUBMITTER NAME: Record the name of the submitter. This is usually the name of the midwife who attended the birth. It is acceptable to apply a pre-printed label that includes the submitter’s name, address and phone number.

- HOSPITAL CODE: This code is not used for homebirths or births that occur in a birthing center.

- SUBMITTER ADDRESS: Record the submitter’s street address followed by the city, state and zip code. This is usually the address of the midwife who attended the birth or the address of the birth center.

- SUBMITTER PHONE: Record submitter’s area code and phone number.

- BIRTH HOSPITAL: Enter “homebirth” or the name of the birthing center.

Recording the NBS Card Number

The NBS card (“kit”) number is located on the lower right-hand corner of the NBS first and repeat sample cards. See Appendix 3 for an image of the NBS first sample card. Please include this number on form DCH-0486 (Rev 12/2013), Michigan Live Birth Worksheet, which is provided by the MDHHS Vital Records & Health Statistics Section. Information on how to file a birth certificate is located in a later section.

Parental Refusal of Newborn Screening

If parents object to NBS, they should be asked to sign a waiver that indicates that they have been informed of the risk to their newborn if screening is not done. Each homebirth attendant should seek legal guidance to develop his/her own refusal form. The homebirth attendant should fax or mail a copy of the signed refusal form to the NBS Program. See Appendix 9 for a sample refusal letter.

Parents whose only objection is that their child’s specimen will be stored indefinitely by the State can choose to have the newborn screen done and then have the bloodspots destroyed once testing is completed. See Appendix 11 for the Directive to Destroy Residual Newborn Screening Blood Specimen form.
Michigan BioTrust for Health
The Michigan BioTrust for Health (BioTrust) is a program that oversees the storage of residual dried blood spots (DBS) from NBS for their potential use in medical and public health research. All birth attendants should provide the BioTrust consent brochure entitled, After Newborn Screening, Your Baby’s Blood Spots, to parents and ask if they are willing to grant permission to make their infant’s DBS available for health research once NBS is complete. Permission is granted by marking the “yes” check box and signing the consent form located on the back of the NBS first sample card. If parents decline permission for the BioTrust, please have them mark the “no” checkbox and sign the BioTrust form. NBS program staff, upon request, will provide on-site training on the BioTrust and the parental consent process. This training is also available on the newborn screening website by clicking on Information for Hospitals and Health Professionals. A copy of the consent brochure After Newborn Screening: Your Baby’s Blood Spots is included in the homebirth kit.

If a parent declines the BioTrust, his/her newborn’s DBS will still be stored unless the parent requests that the specimen be destroyed. Parents who would like to have their newborn’s DBS destroyed should sign and return the Directive to Destroy Residual Newborn Screening Blood Specimen. If a parent is comfortable with his/her newborn’s DBS being stored but not made available for research, no additional steps are necessary other than marking the "no" checkbox and signing the BioTrust consent form located on the back of the NBS first sample card. Only DBS with signed (YES) consent forms will be made available for potential research use.

Residual DBS of persons born after July 1984 and prior to May 2010 are currently stored and available for research through the BioTrust. Persons over the age of 18 or parents of minor children who would like to have these samples destroyed must sign and return the Directive to Destroy Residual Newborn Screening Blood Specimen form. Persons over the age of 18 or parents of minor children who would like these samples to remain in storage but no longer made available for research must sign and return the Directive to Store but Not Use Dried Blood Spot Specimen for Research form. See Appendix 11 for the Directive forms.

BIOTRUST CONSENT FORM INSTRUCTIONS:

1. Provide the Michigan Newborn Screening Saves Babies brochure and the After Newborn Screening, Your Baby’s Blood Spots BioTrust consent brochure to parents. Clarify the difference between the mandatory NBS Program and the optional Michigan BioTrust for Health, which allows residual DBS to be used for research.

2. Inform parents about the Michigan Newborn Screening Saves Babies video and that it can be viewed on the state NBS website. Birth attendants may request a complimentary copy of this video from the NBS Program to view with their families.

3. Complete the demographic information on the front of the NBS first sample card and collect the blood specimen as usual. The BioTrust consent form for residual DBS use is attached to the back of the NBS first sample card. See Appendix 3.

Note: Each NBS card has the same unique ID number on all pages, including the BioTrust consent form. This number is used to link a baby’s NBS specimen to the parent’s BioTrust consent form if received at a later time in the NBS Laboratory.

4. Prior to obtaining consent, confirm that parents have received the NBS brochure and BioTrust consent brochure.

- The Michigan Newborn Screening Saves Babies brochure explains NBS and introduces the Michigan BioTrust for Health.
- The After Newborn Screening, Your Baby’s Blood Spots consent brochure details possible research use of residual DBS and information needed for parents to decide whether to grant permission for use of these DBS for research.
5. If parents wish to allow use of their newborn’s residual DBS for research, ask one parent to mark the “yes” checkbox and sign the white copy of the BioTrust consent form located on the back of the blue first sample card.
   - If consent is not granted, ask one parent to mark the “no” checkbox and sign the white copy of the BioTrust consent form. Return the white copy to the NBS Laboratory once the parent marks his/her decision and signs the consent form.
   - The pink copy is for the parent to keep.

6. Submit the white copies of the BioTrust consent form in the same envelopes used for DBS specimen cards. Note: A consent form does not need to be in the same envelope as a particular newborn’s NBS specimen card. Do NOT delay returning a newborn’s NBS specimen card while waiting for the consent form!

Specimen Collection
- Direct specimen collection from a heel puncture is preferred for optimal laboratory results. Blood collection using capillary tubes is discouraged. Please follow the Clinical and Laboratory Standards Institute (CLSI) guidelines for NBS specimen collection. Refer to the CLSI website for additional information.
- Specimens should be collected between 24-36 hours of age, ideally 24-30 hours.
- Specimens should be air dried for a minimum of three hours.
- Do not expose the specimen to fans, heat or other fluctuations in temperature and humidity.
- Examples of specimens.

Sending the NBS Specimen to the State NBS Laboratory
Homebirth packets now include a UPS label in addition to the prepaid mailing envelope. You may use either option for sending NBS specimens to the State NBS Laboratory. Using a UPS label properly guarantees next day delivery. Specimens received by mail can take up to two weeks to arrive, though most arrive within four days.

Instructions for using UPS labels
1. Enter your name and address in the “Shipment From” box on the shipping label.
2. Enter the date in the “Date of Shipment” box.
3. Use a UPS Express Envelope that you can obtain from a UPS store or Staples. It is not necessary to use the white postage-paid envelope included in the homebirth packet, though using it does provide added protection to the specimen.
4. The cutoff time for next day delivery can vary depending on the UPS store or Staples store you use. Make sure you know your outlet’s cutoff time, which is usually around 4:00 p.m.
5. UPS drop boxes should not be used unless it is very close to the pickup time. Fluctuations in temperature and humidity can adversely affect specimen quality.
6. UPS does not pick up or deliver on the following holidays: New Year’s Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day and New Year’s Eve.
7. You may put more than one specimen in a UPS envelope.
8. Keep the “Shipper’s Copy” for your records. The “tracking number” can be used to track your shipment by visiting the UPS website.

Friday envelopes only
9. Check “Saturday delivery” if you are sending the envelope on Friday. Failure to check this box means the envelope will not arrive until the following Monday.
10. Apply an orange “Saturday Delivery” label below the shipping label.
11. If you believe that weather may delay delivery of an envelope dropped off on Thursday, treat it as a Friday envelope. Otherwise it may not reach the NBS Laboratory until the following Monday.
Mailing the NBS specimen
As soon as the specimen is completely dry, place it in the postage-paid envelope provided by the NBS Program. *Do not place the specimen in a plastic bag.* It is recommended that you mail the specimen inside the post office and that you *not* place it in an outside mailbox. Fluctuations in temperature and humidity can adversely affect specimen quality. Whenever possible, mail the NBS specimen the same day that the specimen has dried or shortly thereafter. Some disorders can be life-threatening within the first week of life. Failure to submit a specimen promptly may result in an unnecessary delay in diagnosis and treatment of an affected infant. Enter your name, address and the date mailed on the NBS envelope. Keep a record of when and where you mailed the specimen. Contact the NBS coordinator at 866-673-9939 if you believe a specimen you mailed was delayed reaching the NBS Laboratory or was lost in transit. The coordinator will work with the post office on these issues.

HEALTHCARE PROVIDER INFORMATION

Follow-up of Positive NBS Results
When the NBS Program identifies a strong positive NBS result, the primary care provider is notified immediately by fax. The following items are included in the fax notification:

- NBS results
- Action required
- Sub-specialist contact information

Simultaneously, the appropriate sub-specialist is notified. The health care provider will be contacted by the consulting sub-specialist to develop a plan of action for necessary diagnostic testing and evaluation that is congruent with clinical status.

The NBS Program may ask the health care provider for additional information over time as part of program evaluation and long-term follow-up. The requests for information are required for NBS follow-up and are not subject to limitations of the Health Information Portability and Accountability Act (HIPAA). See Appendix 4 for an explanation of why information pertaining to follow-up of abnormal NBS results is exempt from HIPAA.

NBS Result Request Policy
The homebirth attendant who submitted the NBS specimen will receive the *Newborn Screening Laboratory Report* and the *Physician Forward Copy* to send to the newborn’s primary care provider.

The NBS Program does not give NBS results over the telephone. NBS results are available on the [Michigan Care Improvement Registry (MCIR) website](http://www.michigan.gov) after the NBS record is successfully linked to the newborn’s birth certificate and immunization records.

Alternatively, if the laboratory has completed testing, results can be obtained by faxing a request on primary care provider letterhead to 517-335-9419 or 517-335-9739. The request should include:

- Baby’s name and date of birth
- Mother’s name at time of delivery
- Primary care provider fax number
- If you are not the provider recorded on the NBS card, a parent/guardian signed release should be included with the request.

If results for a particular test are needed, please specify the disorder on your request.
Questions on Positive Reports Received

Contact the follow-up coordinating center identified on the report if you have questions about clinical symptoms and/or questions about a positive report. Call the NBS Program if you are unable to locate this information or have other questions.

The following are common calls received by the NBS Program for information that is available on the NBS website or in this guide:

- List of disorders included in the Michigan NBS panel
- Written instructions for completing the NBS card
- NBS specimen collection presentation
- NBS educational online tutorial
- NBS Annual Reports that give the number of confirmed cases per year

Documentation of NBS Results

Documentation that a newborn has been screened should be available for every newborn and included in the record kept by the homebirth attendant. Tracking repeat specimens (because initial specimen was borderline positive, collected before 24 hours of life, or unsatisfactory for testing) is important. The newborn's primary care provider is responsible for facilitating subsequent testing.

Do not assume that no news is always good news. If you have not received results of the newborn screen within two weeks of when you sent the specimen, contact the NBS Follow-up Program, (866) 673-9939, to obtain a copy of the results report.
BIRTH CERTIFICATES

Persons Required to Report a Live Birth

Homebirth attendants are required to report live births in the state of Michigan. The issuance of birth certificates is governed by Section 333.2822, Act 368 of the 1978 Public Health Code. See Appendix 12 for a link to the entire section. The following is an excerpt:

(b) If a live birth occurs outside an institution, the record shall be prepared, certified, and filed with the local registrar by 1 of the following individuals in the following order of priority:
   (i) The physician in attendance at or immediately after the live birth.
   (ii) Any other individual in attendance at or immediately after the live birth.
   (iii) The father, the mother, or, in the absence of the father and the inability of the mother, the individual in charge of the premises where the live birth occurs.

Local registrars are instructed by the state of Michigan to register out-of-hospital births.
- Blank birth records are not to be provided
- The registrar may provide a worksheet to the mother, attendant or informant to complete.
- Parents who use the services of a midwife might also be expected to have in their possession the following:
  - A driver’s license or State Police I.D.
  - A marriage license (if married)
  - A properly filled out affidavit of parentage or probate court paternity documents (if unmarried)
  - A completed birth certificate worksheet with the midwife’s signature at the bottom under the signature of the mother or informant

The local registrar may also request the following:
- A baptismal certificate
- A statement from a social services worker that the client was pregnant
- A similar verification from a physician or public health nurse
- A signed statement from a midwife documenting the name of the mother who delivered, the date of the event and place, etc.
- The infant be presented in person in order to register his/her birth

The local registrar or his/her authorized representative should type the birth certificate.

The completed birth certificate should be signed by the attendant and informant at the registrar’s office. It is not given to the mother, informant, or attendant to take out of the registrar’s office.

Each individual local registrar is responsible for ascertaining whether or not a woman has actually given birth when a request is made in the local clerk’s office for a birth certificate to be created because of a homebirth. The staff may employ any reasonable means to confirm the birth.

Parents should be informed that the reporting of live births should be completed as soon as possible with the local registrar.
FREQUENTLY ASKED QUESTIONS

Who informs parents about NBS?
The homebirth attendant is ultimately responsible for informing parents about the NBS process. Education is ideally done during the prenatal period. To facilitate talking with parents, the NBS Program recommends using the *Michigan Newborn Screening Saves Babies* educational brochure as a tool.

What is the chance that a newborn will have a disorder detected by NBS?
Of the 111,735 infants screened in 2015, 270 were diagnosed with a disorder. Overall, one infant out of 414 screened was diagnosed with one of the disorders included in the Michigan NBS panel.

What if a newborn has a family history of a disorder detected by NBS?
Please inform the NBS Program if a family has a history of a disorder on the Michigan NBS panel. You may also write this information on the top of the NBS card.

What is the NBS Program’s specimen storage policy?
Residual NBS specimens are stored indefinitely once NBS is completed. Stored specimens may be used for quality control purposes or for new test development. Medical or public health researchers may use coded specimens through the Michigan BioTrust for Health once their proposal has been reviewed and approved by the BioTrust Scientific Advisory Board and the MDHHS Institutional Review Board. NBS specimens collected after May 1, 2010 can only be used if parental consent was granted for such research. Specimens collected prior to May 1, 2010 are available for research unless parents contact the MDHHS and opt-out.

Who decides what disorders are included on the NBS panel?
Based on nationally accepted criteria, the NBS Quality Assurance Advisory Committee makes recommendations on disorder inclusion to the MDHHS director. The NBS Quality Assurance Advisory Committee meets once each year. Members include parents of affected children, health care providers, hospital representatives, and other medical experts.

What if I need to talk to someone at the NBS Program or a medical sub-specialist?
Call 866-673-9939 to reach someone in the NBS Program who can answer your question or direct you to the appropriate medical sub-specialist.
RESOURCE LIST

Michigan Newborn Screening website

Genetics Home Reference website

Course on Newborn Screening

National Newborn Screening and Genetics Resource Center

Michigan Newborn Screening Video
The NBS Program has developed a 10 minute DVD that explains newborn screening to parents. Please go to the newborn screening website to view and order this DVD.

The American Academy of Pediatrics

National Newborn Hearing Websites

Centers for Disease Control Early Hearing Detection and Intervention

Marion Downs National Center for Infant Hearing

National Center for Hearing Assessment and Management

National Institute on Deafness and Other Communication Disorders

American Speech Language Association

American Academy of Audiology

Hands and Voices
CONTACT INFORMATION

NBS Follow-up Program

Michigan Department of Health and Human Services
Newborn Screening Follow-up
333 S. Grand Ave.
PO Box 30195
Lansing, Michigan 48909

Toll-free:  866-673-9939
Phone:  517-335-4181
Fax:  517-335-9739 or 517-335-9419
E-mail:  newbornscreening@michigan.gov

STAFF

Mary Kleyn
Epidemiologist and Acting Manager
517-335-9296

Rosalind Lewis-McPhaul
Departmental Technician
517-335-4181

Lois Turbett
Nurse Consultant
517-335-1966

Carolyn Smith
Departmental Technician
517-335-4181

Karen Andruszewski
Quality Assurance Coordinator
517-335-8532

Kristy Tomasko
Follow-up Consultant
517-241-0332

Valerie Ewald
Administrative and
NBSO Technical Assistant
517-335-8887

Dominic Smith
Hemoglobinopathy Program Coordinator
517-373-5818

Carrie Langbo
BioTrust Coordinator
517-335-6497

Kristen Thompson
NBS Program Coordinator
517-373-0937
NBS Laboratory

Michigan Department of Health and Human Services
Newborn Screening Laboratory
3350 N. Martin Luther King Jr. Blvd.
P.O. Box 30689
Lansing, Michigan  48909-8189

STAFF

Li Sheng Chen, Director
Division of Chemistry and Toxicology
517-335-9490

Harry Hawkins, Manager
NBS Laboratory Section
517-335-8095

Denise Archambeault
Departmental Technician
517-335-8543
CONTACT INFORMATION

Early Hearing Detection and Intervention

Michigan Department of Health and Human Services
Early Hearing Detection and Intervention
Division of Family and Community Health
109 W. Michigan Avenue, 3rd floor
P.O. Box 30195
Lansing, MI  48909

Phone: 517-335-8955
Fax: 517-335-8036

STAFF

Michelle Garcia
Follow-up Consultant
517-335-8878

Debra Behringer
EHDI Coordinator
517-373-8601

Nan Asher
Program Consultant
517-335-8273

Erin Estrada
Data Analyst
517-335-8916

Lisa Borucki
Infant Health Unit Secretary
517-335-8955

Karen Wisinski
Parent Consultant
517-241-7066
Hepatitis B

Michigan Department of Health and Human Services  
Perinatal Hepatitis B Prevention Program  
333 S. Grand Avenue  
P.O. Box 30195  
Lansing, MI 48909

Toll-Free: 800-964-4487  
Phone: 517-335-9443

STAFF

Patrick Fineis  
Program Coordinator  
517-335-9443

Detroit Regional Office  
Michigan Department of Health and Human Services  
3056 W. Grand Blvd., Ste. 3-220  
Detroit, MI 48202

Phone: 313-456-4431  
Fax: 313-456-0639

Kari Tapley  
Surveillance Specialist  
313-456-4431

Vital Records

Michigan Department of Health and Human Services  
Vital Records Office  
333 S. Grand Avenue  
Lansing MI 48913

Tamara Weaver  
517-335-8714

Jen Moore  
517-335-8712
CONTACT INFORMATION

Follow-up Coordinating Centers

Hemoglobinopathies – Sickle cell anemia (Hb SS), hemoglobin SC disease, sickle beta thalassemia zero (Sβ0), sickle beta thalassemia plus (Sβ+) , and hemoglobin H disease.

Sickle Cell Disease Association of America, Michigan Chapter
18516 James Couzens
Detroit, MI 48235
Telephone: 313-864-4406
Toll-free: 800-842-0973
Fax: 313-864-9980
info@scdaami.org

Children’s Hospital of Michigan
3901 Beaubien Blvd.
Detroit, MI 48201-2192
Telephone: 313-745-5613
Fax: 313-745-5237
Call for a referral to social work and counseling sites in Benton Harbor, Kalamazoo, Grand Rapids, Muskegon, Lansing, Flint, Saginaw and Pontiac.

Metabolic – Amino acid disorders, fatty acid oxidation disorders, organic acid disorders, galactosemia, biotinidase deficiency.

Children's Hospital of Michigan Metabolic Clinic
3950 Beaubien Blvd.
Detroit, MI 48201-2192
Telephone: 313-832-9330
Fax: 313-745-8030

Endocrine and Cystic Fibrosis

University of Michigan Health System
Department of Pediatrics
1500 E. Medical Center Dr.
D1225 MPB, Box 0718
Ann Arbor, MI 48109-0718
Telephone: 734-647-8938
Fax: 734-936-7918

Severe Combined Immunodeficiency

Children's Hospital of Michigan Coordinating Center for Primary Immunodeficiencies
3901 Beaubien St., 5th floor Carls Building
Detroit, MI 48201
Telephone: 313-806-6571
Pager: 313-745-0203; enter pager number 5706
Fax: 313-966-9701
Appendix 1 – Legislative Mandates

Highlights of the Michigan Newborn Screening Law, MCL 333.5431

The Michigan Public Health Code regarding newborn screening applies to all newborns who are born in the State of Michigan. All birthing attendants, such as midwives who attend homebirths, are mandated to obtain a newborn screen. Violation of this section of the public health code is a misdemeanor.

The Michigan Newborn Screening Laboratory tests all NBS dried blood spots. There is no parental opt-out statute in Michigan because the public health code directs birthing hospital and birth attendant compliance with the statute. Parents may refuse testing, though this rarely happens.

The fee for the NBS card is set each year. Eligibility for a fee-waived card is based on WIC income guidelines.
Appendix 2 – Blood Specimen Collection and Handling Procedure

These instructions are found on the back of each NBS card (“kit”):

Please follow the Clinical and Laboratory Standards Institute (CLSI) guidelines for NBS specimen collection. Refer to the CLSI website for additional information.
Appendix 3 – NBS Card Images

NBS First Sample (“blue”) Card

Michigan BioTrust for Health Consent Form
(Attached to the back of the NBS First Sample card)
Appendix 4 – Health Insurance Portability and Accountability Act (HIPAA)
Privacy Rule

The HIPAA Privacy Rule recognizes the legitimate need for public health authorities and others responsible for ensuring public health and safety to have access to protected health information to carry out their public health mission. The Rule also recognizes that public health reports made by covered entities are an important means of identifying threats to the health and safety of the public at large, as well as individuals. Accordingly, the Rule permits covered entities to disclose protected health information without authorization for specified public health purposes.

The Privacy Rule can be found in its entirety on the HIPAA Privacy Rule and Public Health website.
Appendix 5 – NBS Online Ordering System (NBSO)

NBS brochures and mailing envelopes are available at no charge. Orders for NBS cards require payment when the order is placed.

### NBSO Payment Options:
The NBSO system allows you to enter your practice’s purchase order number and assign it to your order. Payment options include eCheck or credit card. These payments will be processed through the PayPlace, a secure site used by the State of Michigan for financial transactions. Learn more about PayPlace privacy on the [PayPlace privacy website](#).

eChecks are an efficient and secure form of payment. They are used just like a check but the bank routing number and account number will be entered electronically on the web-based order form instead of on a paper check. eCheck is NOT the same as an electronic fund transfer (EFT). An eCheck is processed like a check and the account is not debited until the check clears. If you are using eCheck to make your purchase, please call 517-335-8887 to get your permanent eCheck verification code, which you will need to use for all future orders. Learn more on the [eCheck website](#).

If you are using a credit card, make sure the approved credit limit on the card is sufficient to cover the full cost of cards being purchased, and that the name, billing address, and zip code associated with the credit card account match the information you enter in PayPlace.

Place your order on the newborn screening ordering website.

**Follow these steps to get started:**

1. Click NBSOnline Web Store – Order NOW!
2. Click *Register* if you don’t have an account.
3. If you are ordering for multiple medical facilities, click on each of the hospitals for which you do purchasing – a check mark will appear.
4. Upon completion of the registration process, a link will be sent to the email address used to register.

**Still have questions?** For more instruction on using NBSO, please refer to the *NBSO Registration and Order Guide*, available on the newborn screening ordering website. Contact the NBSO Administrator, Valerie Ewald, at nbsorders@michigan.gov or 517-335-8887, if you have trouble placing an order.
Appendix 6 – Ordering the NBS Card for Homebirths

Michigan Department of Health and Human Services
Newborn Screening Card Order for Homebirths

Make check payable to:
Michigan Department of Health and Human Services

Mail order to:
MDHHS Cashier – NBS Cards
P.O. Box 30437
Lansing, MI 48909
(allow three to four weeks for processing)

Telephone order by credit card:
517-335-1966 or 517-335-4181

NBS Cards Contact Information:
Lois Turbett
Phone: 517-335-1966
Fax: 517-335-9419
E-mail: nbsorders@michigan.gov

Order online by credit card:
Choose ‘Midwife Kit/Home Birth Kit’ for NBS first sample card
(orders usually ship within two business days)

Mail card to: □ Mother □ Midwife

Mother
Name:
Address:
Email:
Phone:
Mother’s due date:
Mother’s date of birth:

Midwife
Name:
Address:
Phone:

First Sample (blue) cards
Individual cards – indicate # of cards
$125.16 per card (Effective October 1, 2016)

Repeat Sample (pink) cards
Individual cards – indicate # of cards
$117.11 per card (Effective October 1, 2016)

MDHHS Internal Use
Sales order number:  
Order date: 
Customer number: 
Check number: 
Amount: 
Deposit number: 

Obsolete for orders placed after September 30, 2017
Appendix 7 – Ordering a Newborn Screening Fee-Waived Card

Effective October 1, 2016, the fee for a newborn screening card is $125.16. The fee is waived if income matches or is less than the income guidelines listed below. Use this signed form when ordering a fee-waived NBS card for a homebirth.

### WIC Income Eligibility Guidelines
(Effective from July 1, 2016 to June 30, 2017)

<table>
<thead>
<tr>
<th>Household Size</th>
<th>Annually</th>
<th>Monthly</th>
<th>Twice Monthly</th>
<th>Bi-Weekly</th>
<th>Weekly</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$21,978</td>
<td>$1,832</td>
<td>$916</td>
<td>$846</td>
<td>$423</td>
</tr>
<tr>
<td>2</td>
<td>29,637</td>
<td>2,470</td>
<td>1,235</td>
<td>1,140</td>
<td>570</td>
</tr>
<tr>
<td>3</td>
<td>37,296</td>
<td>3,108</td>
<td>1,554</td>
<td>1,435</td>
<td>718</td>
</tr>
<tr>
<td>4</td>
<td>44,955</td>
<td>3,747</td>
<td>1,874</td>
<td>1,730</td>
<td>865</td>
</tr>
<tr>
<td>5</td>
<td>52,614</td>
<td>4,385</td>
<td>2,193</td>
<td>2,024</td>
<td>1,012</td>
</tr>
<tr>
<td>6</td>
<td>60,273</td>
<td>5,023</td>
<td>2,512</td>
<td>2,319</td>
<td>1,160</td>
</tr>
<tr>
<td>7</td>
<td>67,951</td>
<td>5,663</td>
<td>2,832</td>
<td>2,614</td>
<td>1,307</td>
</tr>
<tr>
<td>8</td>
<td>75,647</td>
<td>6,304</td>
<td>3,152</td>
<td>2,910</td>
<td>1,455</td>
</tr>
</tbody>
</table>

Each Add’l family member add + $7,696 + $642 + $321 + $296 + $148

My family is eligible for a waiver of the newborn screening fee for **ONE of the following reasons**:

- [ ] I am the expectant mother and receive full Medicaid, # ______________________________
- [ ] My family size of ____ (include pregnancy) and annual income of $ __________________ qualify my family to receive a fee-waived card.

By signing this form, I am certifying that the information is accurate and complete to the best of my ability. I understand that I may need to show proof of this information.

Print mother’s name ___________________________ Signature ___________________________ Date ________

Mail card to: [ ] Mother [ ] Midwife

**Mother**
Name: ___________________________
Address: ___________________________
Email: ___________________________
Phone: ___________________________
Mother’s due date: ___________________________
Mother’s date of birth: ___________________________

**Midwife**
Name: ___________________________
Address: ___________________________
Phone: ___________________________

Questions? Call Lois Turbett, MDHHS, 517-335-1966
Toll-free 866-673-9939

Fax completed waiver to: 517-335-9419 OR
Mail completed waiver to:
MDHHS
Newborn Screening
333 S. Grand Ave., 2nd fl
P.O. Box 30195
Lansing, MI 48909

Obsolete for orders placed after 6-30-2017
NEWBORN SCREENING CARD REPLACEMENT FORM

Date: ____________________

FACILITY NAME: ________________________________________________________________

ATTN: (DEPT) ________________________________________________________________

ADDRESS: ____________________________________________________________________

CITY, STATE, ZIP: ____________________________________________________________

CONTACT NAME: __________________________ TELEPHONE # ______________________

NUMBER OF CARDS RETURNED FOR REPLACEMENT: ______________________________

I.D. NUMBERS ON THE CARDS RETURNED:

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

• This form should be filled out completely and mailed with the white face sheet(s) only of the card(s) intended for replacement to the address below. It is not necessary to include the remaining portions of the kit.
• To ensure a quicker turnaround time, send 10 face sheets or less.
• If there is blood on the white face sheet, place it in a biohazard bag.
• **DO NOT** send card replacement requests to the NBS Laboratory. Failure to send your request to the address below may result in no replacement card being issued. Please note: Courier envelopes are for bloodspot specimens. **DO NOT** use courier envelopes for card replacement requests.

SEND FACE SHEET(S) OF CARD(S) TO BE REPLACED AND THIS FORM TO:

Michigan Department of Health and Human Services
Attn: Newborn Screening
333 S. Grand Avenue. 2nd floor
PO Box 30195
Lansing, Michigan 48909
Appendix 9 – Parental Refusal for Newborn Screening Sample Form

I (We) ____________________________________________________________________, the parent(s) or guardian(s) of ________________________________________, birth date ____________________, object to and refuse the requirement that my (our) child be screened for the presence of the disorders listed on the enclosed Michigan Department of Health & Human Services (MDHHS) newborn screening panel and posted on the MDHHS Newborn Screening website.

I (We) have been fully informed of and fully understand the possible devastating consequences to my (our) child’s health, including severe mental and/or physical impairment or death resulting from the disorders screened for by the MDHHS Newborn Screening (NBS) Program.

Therefore, I (we) release the Michigan Department of Health & Human Services, the hospital of birth and the person responsible for collection of the specimen from responsibility for screening my (our) child for the disorders listed on the MDHHS newborn screening panel. Furthermore, I (we) release and hold the Michigan Department of Health & Human Services, the hospital of birth and the person responsible for collection of the specimen harmless for any injury, illness, and/or sequelae that may result to my (our) child as a consequence of my (our) refusal to consent to the screening for the disorders listed on the MDHHS newborn screening panel.

________________________________________________________________________
Signature of parent or guardian date
________________________________________________________________________
Signature of parent or guardian date
________________________________________________________________________
Signature of witness date
________________________________________________________________________
Signature of witness date

Return signed copy by mail:
MDHHS
NBS Follow-up SG2
P. O. Box 30195
Lansing, MI 48909

Or fax to:
Fax: 517-335-9419 or 517-335-9739

To assist in improving the newborn screening program we ask that you please indicate why you are refusing the blood spot test for your baby:

Cannot afford to pay for the card Religious reasons Privacy concerns

Other: ____________________________________________________________________________
Appendix 10 – Disorders List

(April 2015)

Amino Acid Disorders
1. Argininemia (ARG)
2. Argininosuccinic acidemia (ASA)
3. Citrullinemia Type I (CIT-I)
4. Citrullinemia Type II (CIT-II)
5. Homocystinuria (HCY)
6. Hypermethioninemia (MET)
7. Maple syrup urine disease (MSUD)
8. Phenylketonuria (PKU)
   9. Benign hyperphenylalaninemia defect (H-PHE)
   10. Bioperin cofactor biosynthesis defect (BIOPT-BS)
   11. Bioperin cofactor regeneration defect (BIOPT-REG)
12. Tyrosinemia Type I (TYR-1)
   13. Tyrosinemia Type II (TYR-II)
   14. Tyrosinemia Type III (TYR-III)

Fatty Acid Oxidation Disorders
15. Carnitine acylcarnitine translocase deficiency (CACT)
16. Carnitine palmitoyltransferase I deficiency (CPT-1A)
17. Carnitine palmitoyltransferase II deficiency (CPT-II)
18. Carnitine uptake defect (CUD)
19. Dienoyl-CoA reductase deficiency (DERED)
20. Glutaric acidemia type II (GA-2)
21. Long-chain L-3-hydroxy acyl-CoA dehydrogenase deficiency (LCHAD)
22. Medium/short-chain L-3-hydroxy acyl-CoA dehydrogenase deficiency (M/SCHAD)
23. Medium-chain acyl-CoA dehydrogenase deficiency (MCAD)
24. Medium-chain ketoacyl-CoA thiolase deficiency (MCKAT)
25. Short-chain acyl-CoA dehydrogenase deficiency (SCAD)
26. Trifunctional protein deficiency (TFP)
27. Very long-chain acyl-CoA dehydrogenase deficiency (VLCAD)

Organic Acid Disorders
28. 2-Methyl-3-hydroxy butyric aciduria (2M3HBA)
29. 2-Methylbutyryl-CoA dehydrogenase deficiency (2MBG)
30. 3-hydroxy 3-methylglutaric glutaric aciduria (HMG)
31. 3-Methylcrotonyl-CoA carboxylase deficiency (3-MCC)
32. 3-Methylglutaconic aciduria (3MGA)
33. Beta-ketothiolase deficiency (BKT)
34. Glutaric acidemia type I (GA1)
35. Isobutyryl-CoA dehydrogenase deficiency (IBG)
36. Isovaleric acidemia (IVA)
37. Malonic Acidemia (MAL)
38. Methylmalonic acidemia cobalamin disorders (Cbl A,B)
39. Methylmalonic aciduria with homocystinuria (Cbl C,D)
40. Methylmalonic acidemia methylmalonyl-CoA mutase (MUT)
41. Multiple carboxylase deficiency (MCD)
42. Propionic acidemia (PROP)

Hemoglobinopathies
43. S/Beta thalassemia
44. S/C disease
45. Sickle cell anemia
46. Variant hemoglobinopathies
47. Hemoglobin H disease

Endocrine Disorders
48. Congenital adrenal hyperplasia (CAH)
49. Congenital hypothyroidism (CH)

Other Disorders
50. Biotinidase deficiency (BIOT)
51. Galactosemia (GALT)
52. Cystic fibrosis (CF)
53. Severe combined immunodeficiency (SCID)
54. T-cell related lymphocyte deficiencies
55. Hearing
56. Critical Congenital Heart Disease (CCHD)

Disorders Coming Soon
These conditions have been approved for addition to Michigan’s panel but implementation is in progress and screening has not yet begun.

- Glycogen Storage Disease Type II (Pompe)
- Mucopolysaccharidosis Type I (MPS I)
- X-linked Adrenoleukodystrophy (X-ALD)

Updated May 2016
### Appendix 11 – Specimen Directives

**Michigan Department of Community Health**

**Directive to Destroy Residual Newborn Screening Blood Specimen**

<table>
<thead>
<tr>
<th>Child's Name at Birth:</th>
<th>Date of Birth:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Child’s Current Name:</th>
<th>Circle Birth Order if Multiple Birth:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st  2nd  3rd  4th  5th</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mother’s Name at Time of Child’s Birth:</th>
<th>Hospital of Birth:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

I am a legal representative* of the child named above. By signing below, I hereby request the Michigan Department of Community Health to destroy my child’s (or my own) blood specimen after newborn screening has been completed. I understand that by destroying this blood specimen, it will **NOT** be available for any future use including medical, identification, or research purposes.

<table>
<thead>
<tr>
<th>Signature of parent, guardian, or other legal representative:</th>
<th>Relationship to child:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Printed name:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street Address:</th>
<th>City:</th>
<th>Zip:</th>
<th>Phone:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* “Legal representative” means a parent or guardian of a minor who has authority to act on behalf of the minor, or the individual from whom the specimen was collected if 18 years or older or legally emancipated.

The identity of the person(s) signing this form must be authenticated. Please attach a copy of: 1) **the child’s birth certificate** and 2) **driver’s license**, **state-issued identification card**, or **passport** of person(s) who signed above. Additional identifying documents may be requested.

✉ **Mail completed form with required copies to:**

Michigan Department of Community Health
Newborn Screening Laboratory Section
3350 N. Martin Luther King, Jr. Blvd.
P.O. Box 30035
Lansing, MI 48909

Please state why you are making this request. *(This will help improve the newborn screening program, but you do not have to complete this section.)*

☐ Privacy concerns ☐ Not comfortable with research ☐ Other: __________________________

________________________

**Authority:**

| Michigan Public Health Code, Act 368 of 1978 | The Michigan Department of Community Health is an equal opportunity employer, services, and program provider |

DCH-1448 Rev 10/2014
Appendix 11 - Specimen Directives Continued

Michigan Department of Community Health

Directive to Remove Residual Newborn Screening Blood Specimen from Possible Research Uses

<table>
<thead>
<tr>
<th>Child’s Name at Birth:</th>
<th>Date of Birth:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child’s Current Name:</td>
<td>Circle Birth Order if Multiple Birth: 1st 2nd 3rd 4th 5th</td>
</tr>
<tr>
<td>Mother’s Name at Time of Child’s Birth:</td>
<td>Hospital of Birth:</td>
</tr>
</tbody>
</table>

I am a legal representative* of the child named above. By signing below, I hereby request the Michigan Department of Community Health to not use my child’s (or my own) blood specimen for possible future research after newborn screening is complete. I understand that the specimen will be retained by the laboratory but not used for research of any kind unless directed otherwise in writing by a legal representative.

<table>
<thead>
<tr>
<th>Signature of parent, guardian, or other legal representative:</th>
<th>Relationship to child:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printed name:</td>
<td>Date:</td>
</tr>
<tr>
<td>Street Address:</td>
<td>City:</td>
</tr>
</tbody>
</table>

* “Legal representative” means a parent or guardian of a minor who has authority to act on behalf of the minor, or the individual from whom the specimen was collected if 18 years or older or legally emancipated.

Fax completed form to: (517) 335-9776

OR

Mail to:
Michigan Department of Community Health
Newborn Screening Laboratory Section
3350 N. Martin Luther King, Jr. Blvd.
P.O. Box 30035
Lansing, MI 48909

Please state why you are making this request. (This will help improve the newborn screening program, but you do not have to complete this section.)

☐ Privacy concerns ☐ Not comfortable with research ☐ Other:______________

The Michigan Department of Community Health is an equal opportunity employer, services, and program provider

DCH-1465 Rev 10/2014
Appendix 12 – Birth Certificates

Persons required to report live birth occurring in state, MCL 333.2822

Public Health Code (Excerpt) Act 368 of 1978 website
Automatic Fax Reporting of Newborn Screening Results

The Michigan Department of Health and Human Services encourages the receipt of Newborn Screening laboratory reports via an AUTOMATIC FAX TRANSMISSION. Fax reporting provides significant improvement in screening result turnaround time to your facility.

There are two requirements to convert your facility to an AUTOMATIC FAX TRANSMISSION AGENCY:

1) A letter on your agency letterhead must be sent to the MDHHS Bureau of Laboratories, Newborn Screening consenting to becoming an automatic fax agency, and be signed by a person who is authorized to make this request.

2) The following statement of understanding (on next page) must be completed, signed and returned along with the consenting letter.

The letter and agreement may be faxed to 517-335-8550 or mailed to MDHHS at the following address:

Michigan Department of Health and Human Services
Bureau of Laboratories, Newborn Screening Section
3350 Martin Luther King, Jr. Boulevard
Lansing, MI  48909

AUTO FAX reporting can occur anytime during the day or night, including weekends. Expect the same number of pages per patient as are currently mailed. Faxes that fail to get through after several automatic redial attempts will be resent promptly.

If your agency chooses this fax reporting option, the delivery of Newborn Screening laboratory reports through the United States Postal System will be eliminated.

A secure FAX must be available 24 hours per day, 7 days per week (24/7) to receive reports.

Please notify MDHHS Newborn Screening Laboratory if your FAX machine is down for repairs. If an alternate, secure FAX number is available; reporting can be promptly changed to the alternate FAX.

Please notify MDHHS when your secure FAX number is again operational. If your FAX machine is down, and you do not have an alternate secure FAX, reports will be mailed until your machine is operational, without any unnecessary delays.

It is the responsibility of your agency to maintain a secure FAX line.

If you have any further questions, please contact Harry Hawkins by telephone at 517-335-8095 or e-mail hawkinsh@michigan.gov.

Please keep this letter for your records.
STATEMENT OF UNDERSTANDING
AGENCIES SELECTING AUTOMATIC FAX TRANSMISSION OPTION

1. I understand that all newborn screening reports of patient testing by the MDHHS Bureau of Laboratories will be sent to this agency by FAX transmission.

2. I understand that upon conversion to a fax transmission agency, no hard copy reports will be sent using the United States Postal Service.

3. The FAX number provided to MDHHS is a secure facsimile machine. To be a secure facsimile machine, the following criteria must be met:
   - Only persons authorized to review confidential clinical laboratory test results use or otherwise have access to incoming FAX transmissions.
   - The facsimile machine is in a secure location during non-business hours in the event that FAX transmittal occurs after normal business hours.

Date: ____________________________

Midwife or Birth Center Name: ____________________________________________

Address: _______________________________________________________________

Authorized Signature: _____________________________________________________

Secure FAX Number: _____________________________________________________

Contact Person for FAX Problems (please print) ______________________________

Contact Person’s Phone Number for Problems _______________________________

Please keep a copy for your records
Appendix 15 – Military Time

Military time is a concise method of expressing time used by the military, law enforcement, hospitals, and other entities. Military time uses a 24-hour time scale that makes the use of a.m. or p.m. unnecessary. Midnight corresponds to 0000, 1 p.m. corresponds to 1300, and so on.

The following table provides a convenient way to convert between military time and regular time.

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<th>Regular Time</th>
<th>Military Time</th>
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<tr>
<td>1:00 a.m.</td>
<td>0100</td>
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<td>2:00 a.m.</td>
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## Appendix 16 – Weight Conversion Chart

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