NEWBORN SCREENING COORDINATOR TOOLKIT

A guide to help you become a successful Newborn Screening Coordinator

NYS Newborn Screening Program NYS Department of Health, Wadsworth Center 120 New Scotland Avenue Albany, NY 12208



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Section 1: Newborn Screening Overview

What is the Newborn Screening Program?

Introduction

The New York State Newborn Screening Program (NYS NBSP) is a public health service provided to all infants born in NYS for early detection of treatable disorders that can affect newborns or children. The NBSP screens for more than 50 disorders, which without treatment, may permanently impact the health and overall quality of life of newborns. Because the early recognition and treatment of these disorders can be lifesaving, newborn screening is mandated under public health law and written permission from parents is <u>not required</u> to conduct this screening.

The Importance of Early Detection

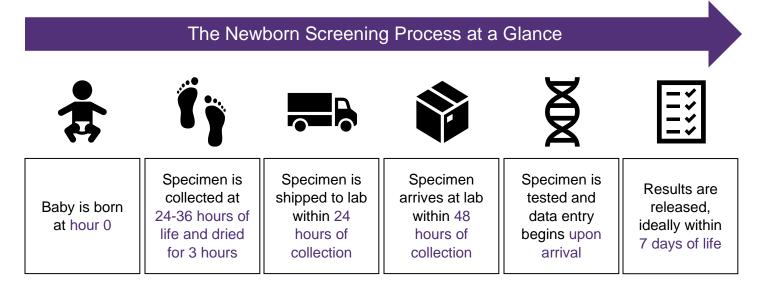
Most babies born with one or more of the disorders on the newborn screening panel appear healthy at birth, and the newborn screen is the first indication that the infant has a health concern. Without this screen, affected infants could experience significant delays in diagnosis and treatment, which can be deadly. However, when the newborn specimen is collected according to NYS regulations, screening has the potential to detect disorders and allow for prompt treatment within days of birth.

What is a Newborn Screening Specimen?

Shortly after birth, a small blood sample is collected from an infant via heel stick. Drops of blood from the heel stick are used to saturate the 5 marked circles on the blood collection form. This form, with all the marked circles filled in, is the infant's newborn screening specimen which is mailed via overnight courier to the newborn screening lab for testing.

Newborn Screen vs. "PKU Test"

Phenylketonuria, or PKU, was one of the first disorders on the newborn screening panel. As a result, some people still refer to the newborn screen as "PKU" or the "PKU test". However, today's newborn screening panel is made up of more than 50 disorders. It is very important **to refer to the testing as the "newborn screen"** and <u>not</u> the "PKU test" to avoid confusion and prevent providers from ordering incorrect lab tests for critically ill infants.



What is a Newborn Screening Coordinator?

A newborn screening coordinator (NBSC) is a role that is assigned to help fulfill the hospital's responsibilities as outlined in the NYS newborn screening regulation, 10 NYCRR 69-1.3. A hospital's NBSC is the main contact for the NBSP staff.

A Newborn Screening Coordinator that is well-organized, communicative, and dedicated to excellent newborn screening compliance is key to ensuring the proper screening, diagnosis, and treatment of newborns.

Responsibilities of a Newborn Screening Coordinator

- 1. Ensure that the specimen collection card is filled in correctly, completely, and legibly printed.
- 2. Resolve discrepancies related to specimen identification, provide missing or illegible data submitted with the specimen, and/or provide follow-up information.
- 3. Receive unsuitable/sub-optimal specimen list from the NBSP.
- 4. Ensure that repeat specimens are submitted after an unsuitable/sub-optimal specimen or borderline newborn screening result is issued, or whenever a repeat specimen is requested.
- 5. Contact the infant's parents/guardians and post discharge primary care provider (PCP) for notification of the need for a repeat specimen **within 1 day** of learning the result.
- 6. Document all efforts made to secure a repeat specimen **within 90 days** of receipt of the abnormal result if a repeat specimen cannot be obtained.
- 7. Ensure the hospital has recorded newborn screening results for all infants and communicated them to the baby's PCP after discharge from the hospital, as applicable.
- 8. Receive, properly store, and distribute the newborn blood collection forms and newborn screening educational materials. Order additional materials online if the need arises.
- 9. Communicate with the Department of Health as necessary regarding maternal/newborn HIV testing regulations in the labor, delivery, and nursery settings.

Prepare for Success at a NBSC

- 1. Send your hospital affiliation, phone number, fax number, email, and Health Commerce System username to the NBSP via email (<u>nbsinfo@health.ny.gov</u>). This information should also be updated on HERDS in the Health Commerce System (page 30).
- Request access to your hospital's medical record system if you do not have access already. The NBSP will contact you to clarify missing/illegible demographic information for mother and baby, find updated PCP information, and request follow-up information on cases. Without access to medical records, it will be hard for you to fulfill this responsibility.
- 3. Familiarize yourself with the current <u>newborn screening regulations</u>.

This toolkit is a detailed guide that will walk you through how to successfully maintain the roles and responsibilities of being a NBSC. However, if you have any questions that are not answered, please call (518) 473-7552 or email <u>nbsinfo@health.ny.gov</u> and we will be happy to assist you.

Welcome to the newborn screening family! We are happy to have you and look forward to working together to keep newborns safe and healthy.

The Newborn Screening Application

The NBSP has an application available through the Health Commerce System that is an important resource for NBSCs. On the app you will be able to see newborn screening updates and announcements, look up screening results for specimens submitted by your hospital, and view and/or enter notes into an infant's newborn screening case.

Request Access to the Newborn Screening Application

If you <u>do not</u> have a Health Commerce System account, you can register using the information below:

- Prescribing medical professionals should visit the following site: <u>https://apps.health.ny.gov/pub/top.html</u>
- Other users should visit <u>https://apps.health.ny.gov/pub/usertop.html</u> or call the Health Commerce System Helpdesk at 1-866-529-1890.
 - If you register online, approval is required by a prescribing medical professional or Health Commerce System hospital coordinator to activate your account.
- For issues with passwords or logins, please contact the Health Commerce System Helpdesk at 866-529-1890 or <u>camu@its.ny.gov</u>. The NBSP cannot create a Health Commerce System account for you, and we can only grant you access to the Newborn Screening Application after you have created a Health Commerce System account.

If you <u>already</u> have a Health Commerce System account, you should email your Health Commerce System username and institutional affiliation to <u>nsbinfo@health.ny.gov</u> and indicate that you would like access to the newborn screening application. Most times, access to the application is granted within one day of the initial request.

Log in to the Newborn Screening Application

- 1. Log in to the Health Commerce System
- 2. In the "My Applications" menu, scroll down and select the "Newborn Screening Applications" link. Make sure to select the words "Newborn Screening Applications" and not the blue dot to the right.
- 3. You will be redirected to the homepage of the Newborn Screening Application, where there is a list of laboratory announcements. Please review these periodically as they may change.
- 4. On the left-hand side of the screen, there is a list of icons and headings. You will primarily be using the Secure Remote Viewer and Case Demographics (also called iCMS).
 - a. The Secure Remote Viewer contains test results for all babies for within the last 10 years, whether screen positive or negative.
 - b. Case Demographics contains information on cases that were either unsuitable, borderline, or referrals which require follow-up actions. You can use Case Demographics to make notes on an infant's case, view notes made by the NBSP, and upload documents.



More detailed information regarding how and when to use the Secure Remote Viewer (page 16) and Case Demographics (page 24) is discussed in this toolkit.

Section 2: Ordering Newborn Screening Materials

It is the responsibility of the NBSC to monitor supplies and order more when necessary. These supplies are available at no cost to the hospital. Blood collection forms, brochures, and posters can all be ordered on the NBSP's <u>website</u>.

Blood Collection Forms

Blood collection forms are shipped to most hospitals quarterly (January, April, July, and October). Each hospital will receive enough blood collection forms to cover the total number of specimens submitted the previous year plus 10%.

Hospitals with fewer than 400 births per year are shipped their annual supply of blood collection forms in October.

If your hospital is running low on blood collection forms, visit the NBSP <u>website</u> to order more. Please allow 3-4 business days for supplies to arrive.

Brochures

Your hospital should have a supply of brochures available as educational tools for parents. All brochures can be ordered in multiple languages.

For Your Baby's Health

For Your Baby's Health brochures should be given to every parent upon admission for delivery. The brochure provides background on the importance of the newborn screen and what the results could mean for the newborn's health.

Trait/Carrier Status

The NBSP offers brochures on trait/carrier status for various disorders. They are a helpful educational tool for parents who have a newborn that has been identified as a carrier for a disorder or as having a disorder trait.

Posters

There are two posters available on our website to serve as educational tools for hospital staff.

Blood Collection and Handling Procedure

This poster describes proper blood collection and handling of the blood collection form. This should be used as a training tool and can be hung in the nursery/NICU as a reminder of proper protocol for staff.

Simple Spot Check

This poster shows examples of suboptimal/unsuitable specimens, and the collection mistakes that result in these types of specimens. This should be used as a training tool for all staff who collect specimens.

Section 3: Educating Parents

It is important to educate parents about the newborn screen prior to specimen collection. Knowing what to expect, as well as the many benefits of the newborn screen, can help parents feel more comfortable with the screening process. Often, a mother first hears about the newborn screen when she is admitted to the hospital or shortly after delivery.

Upon admission for delivery, please provide the parents with:

A copy of the NYS Newborn Screening Program's For Your Baby's Health brochure. The brochure is available in many languages and can be ordered at no cost to your hospital from our <u>website</u>.



General information about the newborn screen, including that the screen is a free service provided to all newborns in New York State and is crucial in detecting babies that, despite appearing healthy at birth, may have a serious and possibly fatal disorder that requires prompt treatment.



The pink parent copy of the blood collection form. Let the parents know that this form should be given to their newborn's PCP at their first appointment. Parents should also be aware that their newborn's PCP should use the Lab ID to look up the results of the newborn screen online, which should be available within **7-10 days** of birth.



Information about what to expect after the screen. Discuss with parents that, while unlikely, there is a chance that their newborn will need another newborn screen. Encourage the parents to have the repeat screen collected in a timely manner, if requested.

Although parents should provide their newborn's PCP with the pink copy of the blood collection form, it is the responsibility of the hospital, as outlined in our current newborn screening regulations, to also provide the newborn's PCP with the Lab ID of the screen(s). The Lab ID should be included in the infant's discharge summary and sent to the PCP. Please ensure that the Lab ID can be easily located in the discharge summary.

It is critical that the Lab ID for every infant born at your hospital be included in the infant's discharge summary and sent to their post-discharge PCP.

Section 4: Specimen Collection and Quality

Every baby born in NYS should have a newborn screening specimen collected shortly after birth. Please review how to properly complete the blood collection form and collect specimens.

Filling out the Blood Collection Form

Fill out the top pink copy of the blood collection form with the infant's last name, then remove the pink copy and give it to the infant's parents along with the educational brochure "For Your Baby's Health". The Lab ID must be documented in the baby's discharge summary where it

can be easily located by the baby's PCP upon discharge.

On the white copy, you must fill out <u>all fields</u> completely and accurately, and print legibly. Although the entire blood collection form should be completed, it is especially important to complete the following 11 fields

for completeness and accuracy to ensure timely testing and reporting of results:

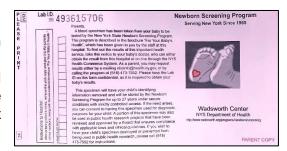
- Date of Birth
- Time of Birth (4-digit, military time)
- Date of Specimen Collection
- Time of Collection (4-digit, military time)
- Birth Weight (grams)
- Gestational Age (weeks/days)
- Sex
- Birth Order
- Medical Record Number
- Zip Code (under Mother's address)
- Mother's Date of Birth

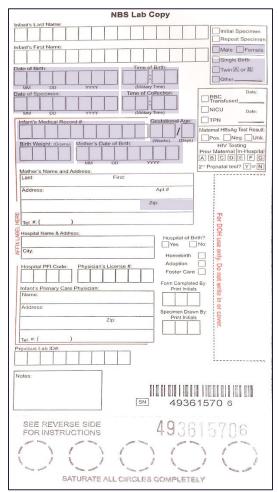
The 6 data fields highlighted are considered especially critical to screening results. Failure to accurately or completely fill out one or more of the following fields will result in missing data and will delay the results of the screen until the correct information is provided. This delay has the potential to deny newborns the full benefit of timely screening. If any of these fields are incomplete or incorrect, the specimen will be counted in the missing data column of your hospital's monthly report card.

If your hospital submits the demographic information electronically, handwrite the infant's last name on the form and apply the label in the red outlined area that says, "affix label here".



Tear out and keep the green copy as proof of your specimen collection. Ensure that a blood collection form has been completed for every infant born at your hospital.







Collecting the Newborn Screening Specimen

Collection in the Nursery

Collecting a specimen properly is key to timely and efficient testing. Please confirm that all staff are thoroughly trained on proper specimen collection techniques before collecting any specimens.

Training on specimen collection must occur **annually** for all staff, and completion of training must be documented and made available to the NBSP upon request.

- 1. Collect blood 24-36 hours after birth. Ensure that your hospital has a protocol in place to collect a newborn screening specimen on **every** infant born at your hospital.
- 2. Place infant's leg in position to increase venous pressure.
- 3. Warm heel for three minutes.
- 4. Cleanse puncture site with sterile alcohol pad.
- 5. Wipe dry with sterile gauze.
- 6. See diagram on blood collection form for puncture site. Avoid previous puncture sites or curvature of the heel.
- 7. Puncture heel using no longer than a 2mm sterile lancet.
- 8. Wipe away first drop of blood with dry sterile gauze.
- 9. Allow second, larger drop of blood to form.
- 10. Gently apply filter paper to large drop of blood, allowing blood to soak through and completely fill preprinted circle. Specimen may be collected on either side of the filter paper but should NOT be applied to BOTH sides. Do NOT use capillary tubes or syringes for specimen collection.
- 11. Apply one drop of blood per circle. Do not layer successive drops of blood or touch the heel to the same circle multiple times.
- 12. Fill all five circles completely with blood.
- 13. To prevent contamination, avoid touching the special absorbent paper used for collecting the blood specimen.
- 14. Allow blood spots to air dry thoroughly for at least 3 hours on a flat, nonabsorbent surface, away from direct heat and sunlight. Avoid touching or smearing blood spots. Never superimpose one filter paper on another before thoroughly drying. Once blood spots are completely dry, place the biohazard flap over blood. Do not refrigerate.
- 15. Place up to 50 specimens inside of the FedEx Reusable Padded Pak along with completed transport form (link available on page 15). Use the FedEx Small Pouch to hold the shipping label and adhere to the FedEx Reusable Padded Pak.
- 16. Ship the dried blood collection forms to the testing laboratory as soon as possible, within 24 hours of collection.
- 17. If submitting data electronically, affix approved data label to each copy of this form in the red-outlined area only.

These specimen collection instructions are also located on the back of every blood collection form. Be sure to visit our <u>website</u> for more information on specimen collection.

Collection in the NICU

Though the specimen collection technique is the same for NICU and nursery babies, the timing of the first collection and the number of screens needed differs for NICU babies. In general, a newborn in the NICU will require 3 newborn screens:

- 1. Collect an initial screen at time of admission to the NICU, prior to any interventions (transfusions/ TPN) and regardless of age
- 2. A repeat screen should be collected at 48-72 hours of life
- 3. A third screen should be collected at **discharge or 28 days** after birth, whichever comes first
- 4. If a newborn is still receiving interventions when the 28-day screen is collected, a fourth screen should be collected 72 hours after all interventions have ended

If during this process the NBSP requests that a repeat specimen be collected, collect the repeat as soon as possible. Do not wait for discharge or 28 days of life. For example, if a NICU baby has a borderline result, collect a repeat specimen as soon as requested, regardless of the newborn's age.

If the initial newborn screen cannot be collected prior to the start of TPN/Transfusions:

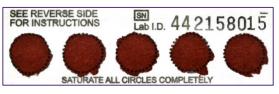
- 1. The initial newborn screen should be **collected 72 hours after administration** of transfusion and/or TPN
- 2. A repeat specimen should be collected **at least 120 days after the final transfusion** and/or TPN

When filling out the blood collection form for the second and third screens for a NICU baby, please be sure to check the "repeat specimen" box at the top right of the blood collection form and fill out the "Previous Lab ID #" boxes at the bottom left of the blood collection form before submission. This will allow us to correctly interpret results and will also help us link specimens in our system so we know that the baby has received all required screens.

If newborns are admitted to your hospital's Special Care Nursery, and are not receiving TPN or transfusions, they may follow the nursery collection protocol on the previous page.

The Perfect Specimen

- Has all of the requested information correctly and legibly printed on the blood collection form
 - OR if submitting electronically, has ONLY the infant's last name handwritten on the form and has the label applied to the form in the correct location and orientation
- Has the correct PCP indicated
- Has the correct time of birth, in military time
- · Has the correct time of collection, in military time
- Is collected within the proper timeframe
- · Has no foreign contaminants on the filter paper
- Has all printed circles completely filled with blood that is applied evenly on **one side** of the filter paper, free of layering and clots
- Is dried for at least three hours on a flat, clean, non-absorbent surface, away from direct heat and sunlight
- Has been examined and approved by an experienced staff member
- Is covered by the biohazard flap after proper drying and before mailing
- Is at the appropriate pick-up site within the hospital for delivery to the screening laboratory the next morning. If your site does not participate in the NYS delivery program (non-hospital) the specimen must be sent to the NBSP by first class mail or its equivalent within 24 hours of collection



Special Circumstances: Early Discharge of a Baby

If a newborn is discharged from the hospital at less than 24 hours of life, the birth hospital **should collect a specimen prior to discharge.** Although specimens collected prior to 24 hours of life will need to be repeated, they can still be tested for some disorders and will show emergency-level results for all disorders. Before the parents leave the hospital, please schedule a time for them to return with the baby between **48-72 hours of life** to have a repeat screen collected.

If the parents refuse to have a less than 24-hour screen collected prior to discharge, please fill out a blood collection form with all the demographic information for the infant. Although the blood collection form will not have any blood on it, the NBSP will be able to create a case for the infant using the demographic information on the form. Additionally, the provided information can help the NBSP to follow-up with the family to ensure that a screen is collected. On the bottom of the blood collection form, in the notes section, please write "Refusal". Paperclip a completed NBSP Refusal form to the specimen.

Special Circumstances: Late Admission of a Baby

If a baby is admitted to your hospital within the first 28 days of life, and a prior screen cannot be found, your hospital should collect a specimen upon admission. On the blood collection form, select "No" under Hospital of Birth if the baby was not born at your hospital. If you know where the baby was born, please include that information in the notes section of the blood collection form.

Special Circumstances: Transfer of a Baby to Another Hospital

Sometimes an infant will have to be transferred from your hospital to another hospital for advanced care. In this case, the hospital of birth should collect the initial newborn screening specimen and notify the receiving hospital of the collection by providing them with the Lab ID from the screen(s). In the notes section of the blood collection form, the birth hospital should write where the baby was transferred to in the notes section of the blood collection form.

If the baby is transferred to a hospital <u>without</u> having an initial newborn screening specimen collected with blood, it is the responsibility of the birth hospital to:

- 1. Notify the receiving hospital that no newborn screening specimen has been collected
- 2. Submit a blood collection form to the NBSP with all the demographic information completed and with a note indicating where the baby was transferred. This will let the NBSP know that the baby was born, and who to contact for follow-up.

The receiving hospital is then responsible for collecting any repeat screens and conducting any needed follow-up. The receiving hospital should follow the recommended procedure for NICU admissions.

Unsuitable and Sub-optimal Specimens

Proper specimen collection techniques are crucial for collecting specimens that are suitable for testing by the NBSP laboratory. Unsuitable or sub-optimal specimens are known to produce erroneous laboratory results and must be repeated. This delays the screening process and puts newborns at unnecessary risk for harm should they have one of the disorders on the screening panel.

Sub-optimal vs. Unsuitable Specimens

Although these labels are often used interchangeably to describe poor quality specimens that need to be repeated, they are different.

Specimens may be considered suboptimal if they exhibit serum rings, clotting, or if they are not properly dried prior to mailing. Although sub-optimal specimens are tested at the NBSP lab and results are issued for some disorders, a repeat specimen is required due to poor sample quality. To achieve timeliness goals, infants with abnormal results on sub-optimal specimens will be referred for care, but a repeat specimen is still required.

An unsuitable specimen, sometimes referred to as a "true unsuitable" is a specimen with no blood, an insufficient quantity of blood, or a specimen that is diluted, discolored, or contaminated. Specimens that are damaged in transit or are also unsuitable. These specimens cannot be tested for **any** disorders.

Improving Your Unsuitable Specimen Rate

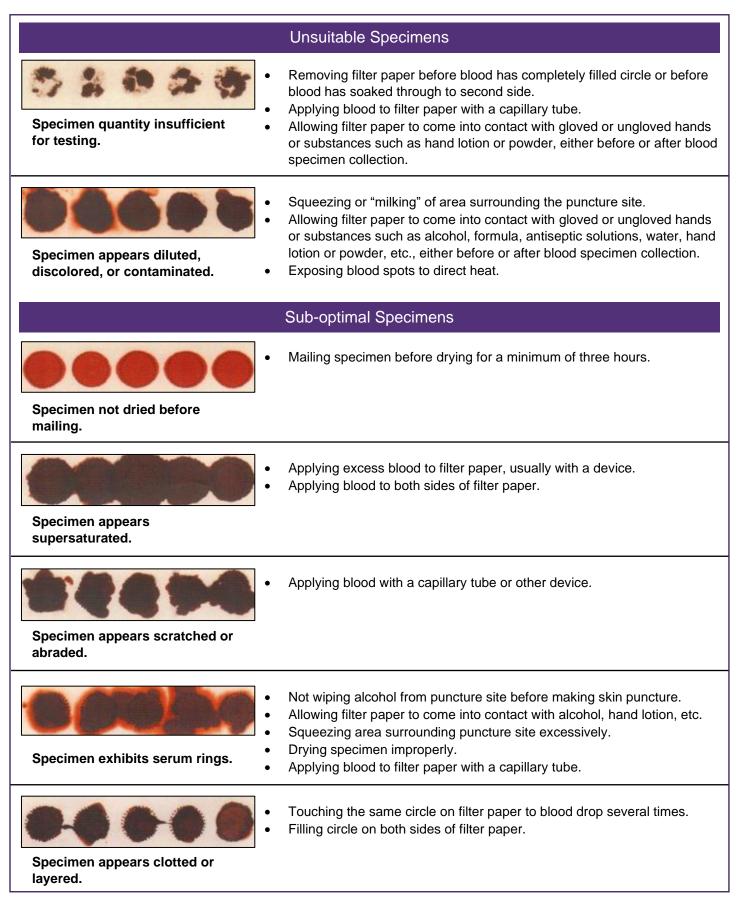
You can check your hospital's unsuitable specimen rate in the "Unsuitable Specimens" column on your hospital's monthly report cards. Although the column is labeled "Unsuitable Specimens", it does include your hospitals sub-optimal specimen compliance as well. It is recommended that you review at least the most recent 6 months of report cards to get a better understanding of your hospital's unsuitable specimen performance.

To improve your unsuitable specimen rate:

- Fully train all staff on specimen collection before they collect newborn screening specimens
- Provide specimen collection training annually
 - A specimen collection video can be found on our website
 - Have a specimen collection demonstration by a well-practiced staff member
- Do not touch the special absorbent filter paper where the blood spots are collected
- Ensure that all specimens are dried in a safe, secure place free from direct heat and contaminants such as hand sanitizer, lotion, etc.
- Dry all specimens for at least 3 hours prior to packaging and shipping

To find out which types of unsuitable and sub-optimal specimens your hospital submits most often, please contact the NBSP via email at nbsinfo@health.ny.gov.

Causes of Unsuitable and Sub-optimal Specimens



Exemptions to Specimen Collection

Newborn screening is mandated by law, and parental permission is <u>not required</u> to collect a newborn screening specimen on an infant. However, there are two circumstances where newborn screening is exempt:

The parent or guardian of the infant is a member of a recognized religious organization whose teachings are contrary to the testing requirement, and he or she has declined the testing of their child.

If a parent or guardian objects to testing based on religious grounds, the hospital administrator, or another person designated to register the birth of the child (as defined by Public Health Law Section 4130) has the following responsibilities:

- Fully inform the parent or guardian of the consequences of refusal.
- Inform the NBSP of the parental refusal by submission of a signed <u>refusal of newborn screening</u> <u>for religious reasons form.</u>
 - This form must include a statement indicating that the parent or guardian is a member of a recognized religious organization and has been fully informed of the benefits of screening as well as the possible consequences of not having the newborn tested.
 - \circ Keep a copy of this refusal form in the baby's health record at the birth hospital.
- Submit the Newborn Screening Blood Collection Form with complete demographic information, but without the blood sample, to the NBSP.
 - "Refusal" should be written in the "Notes" box. The green copy should be retained by the hospital, and the pink copy given to the parents.

The newborn is receiving compassionate (comfort) care only, and is not expected to survive, and the screening has been declined by the parent or guardian.

As above, the attending physician must:

- Submit a Newborn Screening Blood Collection Form with complete demographic information, but without a blood sample. This is to be accompanied by written documentation of the reason for compassionate care and parental declination of screening.
 - "Compassionate Care" should be written in the "Notes" box. The green copy should be retained by the hospital.
- Explain to the parent or guardian that even in such a case, there may be a benefit to newborn screening. Screening results may shed light on the cause of the newborn's medical condition and the remaining blood spots would be stored, providing the opportunity for future testing if the diagnosis remains unclear.

Health Level 7 (HL7) Electronic Data Submission

Background

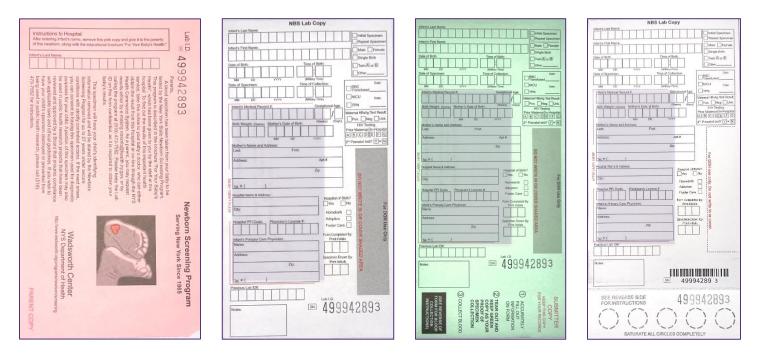
Health Level 7 (HL7) refers to a type of electronic data entry that is used by approximately 25% of NYS hospitals. Instead of manually completing the demographic information on the blood collection form, HL7 hospitals transmit demographic information from their electronic medical record system to the NBSP. Hospital staff print 3 labels and attach the labels to the copies of the baby's blood collection form as described below under "Blood Collection Forms". When the blood collection form is received by the Newborn Screening Program (NBSP), our data entry team uses the Lab ID pre-printed on the blood collection form to retrieve the electronically submitted data from the HL7 holding table.

All hospitals should reach out to the NBSP before implementing HL7 to ensure it is established correctly. Please email <u>Krystal.Benninger@health.ny.gov</u> with questions.

Blood Collection Forms

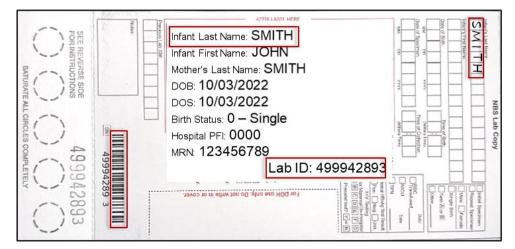
Blood collection forms have multiple copies, each with a different purpose.

- 1. The pink copy is given to the infant's parents. The infant's last name should be handwritten at the top of the pink copy, but no other information should be included.
- 2. The first white copy is sent to the NBSP for data entry. The HL7 label should be placed where it says "affix label here" and the infant's last name should be handwritten at the top of the copy.
- 3. The green copy is kept by hospitals for their records. The HL7 label should be placed where it says "affix label here" and the infant's last name should be handwritten at the top of the copy.
- 4. The second white copy is sent to the NBSP for testing. The label should be placed where it says "affix label here" and the infant's last name should be handwritten at the top of the copy. This is the only copy containing blood, and also the only copy with a barcode available to scan the Lab ID.



Proper HL7 Documentation

- A barcode scanner should be used to scan the Lab ID.
- Data must be entered into the field as specified in the technical specifications. Any data entered into a non-designated field will not be received by the HL7 processing software.
- Labels must be affixed to all copies of the blood collection card in the space indicated by the note "affix label here" (the green hospital copy and both white copies for the NBSP).
- The label must be placed vertically and should not cover the "For DOH use only" section of the form.
- The label must not cover the barcode or the printed Lab ID.
- The infant's last name must be handwritten legibly on the form.
- The <u>last name</u> and <u>Lab ID</u> on the label must match the printed Lab ID/scanned barcode and handwritten last name on the form.



ACK and NACK Reports

When data is submitted electronically, either an "ACK" or "NACK" message is sent to hospitals automatically. These messages can be accessed by your IT system and indicate if the data has been accepted or not. ACK (acknowledgement) reports are automatically issued when the data have been successfully received. NACK (negative acknowledgment) reports are automatically issued when the data are submitted incorrectly, or if required data are missing.

NACK reports are vital for eliminating missing data. Below are some important things to know:

- NACK reports are sent to your hospital's computer system automatically, but usually IT assistance is required to make the messages easily viewable for hospital staff.
- NACK reports allow for real time data correction. When a NACK report is sent, hospitals should immediately correct the data and resubmit the data electronically to the NBSP.
- All data must be correct and complete before 8am the day after the specimen is shipped.
- After 8am, any data that is still missing and/or incorrect may result in a phone call to the hospital so the missing critical information can be obtained. These instances will appear on the hospital's monthly report card.
- If you notice a mistake on the label or the form, do not cross out, re-write, or add information. You must correct the information in your computer system and re-submit the data to the NBSP.

NACK Report Example

Below is an example of a NACK report that was issued when a Lab ID was entered incorrectly.

Added NACK to PHINMS_TRANX_OUT:

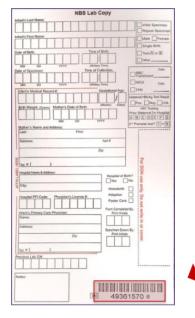
MSH|^~\&|UPHN LITE|NYSDOH||AFT4050U|20230123124207||ACK^O01^ACK|20230123124207-0260|P|2.5.1| MSA|AE|479| ERR||ZNY^1^23|101^Required field missing^HL70357|W||XXXXXXXX~0020635456|Not_avalid Lab ID: 501269425.

An error was encountered processing Lab ID XXXXXXXX for MRN XXXXXXXXX, for PFI XXXXXX.

Common Errors

- The Lab ID is entered incorrectly
 - Usually when this occurs, 8 digits are entered, or digits are entered in the wrong order.
 - Lab IDs are 9 digits long and should be entered exactly as they are printed on the blood collection form.
- Gestational age is entered incorrectly
 - Gestational age is sometimes entered as a decimal or entered as weeks with no day.
 - Gestational age must be entered as weeks/day with no space or punctuation (ex. 370).
- Birth weight is entered incorrectly
 - Birth weight is sometimes entered in pounds or entered with a comma or period.
 - Birth weight should always be entered in grams without any punctuation (ex. 3540).
- Labels are attached to incorrect forms
 - Sometimes blood collection forms are received where the handwritten last name on the card does not match the last name printed on the label, or the Lab ID pre-printed on the card does not match the Lab ID on the label.
 - The last name and Lab ID must be the same on the form and the label. These fields must be double-checked before placing the label to ensure accuracy.
- The label for the initial sample is used again for the infant's repeat sample(s)
 - When this occurs, the Lab ID on the form does not match the Lab ID on the label.
 - A new label should be printed for each sample, as each sample has a unique Lab ID.

Lab ID Errors



Incorrectly entered Lab IDs are responsible for more than 95% of missing data errors from HL7 hospitals.

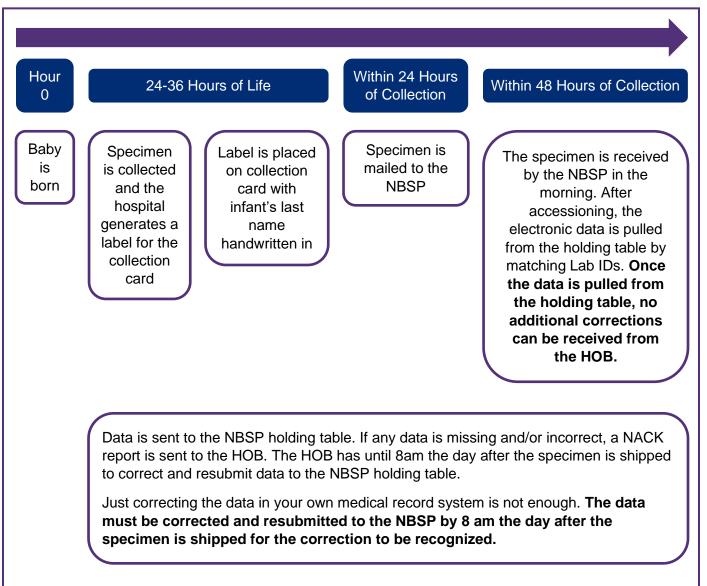
A barcode scanner should be used to scan the barcode located above the pre-printed Lab ID on the form. This reduces the chance for human error.

The 9-digit Lab ID must always be entered exactly as printed on the blood collection form.

Important Note

- If your interface is not working, or labels are not printing correctly for any reason, you must immediately revert to manually completing the blood collection forms until the issue has been resolved. Let the NBSP staff know immediately if this happens.
- When the specimen is received by the NBSP and accessioned in the morning, the electronic data is pulled from the holding table by matching Lab IDs. The hospital has until 8am the day after the specimen is shipped to correct and resubmit data to the NBSP holding table. Once the data is pulled from the holding table, the NBSP cannot receive any additional corrections from the hospital via HL7.





Section 5: Specimen Shipping

Shipping Newborn Screening Specimens

- 1. Dry specimens for **at least 3 hours on a flat, non-absorbent surface** away from direct sunlight and potential contaminants.
- 2. Place the biohazard flap of the specimen card over the blood spots.
- 3. Stack all dry specimen cards in the same direction, and place up to 50 specimens in the FedEx Reusable Padded Pak.
- 4. Record each specimen's Lab ID on the <u>Newborn Screening Transport Form</u> and write the total number of specimens you are sending in the circle on the transport form.
- 5. Complete the form with your information and the FedEx tracking number. Make a copy to keep for your records and put the original copy in the FedEx Reusable Padded Pak.
- 6. Put the shipping label in the FedEx Small Pouch and adhere to the FedEx Reusable Padded Pak.
- If directly mailing, address all packages to: Newborn Screening Program NYS Department of Health / Wadsworth Center 120 New Scotland Avenue Albany, NY 12208
- 8. Ship specimens within 24 hours of collection to ensure timely testing.
- 9. Confirm that all specimens to be shipped are your hospital's designated FedEx pick up area prior to your hospital's pickup time.

Specimen Friday Pick-up for Saturday Delivery

Shipping labels that are created on Change the **DELIVER TO** address Friday (for a Friday pick-up and Saturday delivery) will need to be Oeliver to ~ completed according to the following Q SEARCH IN ADDRESS BOOK Contact details instructions: CONTACT NAME * NYS NEWBORN SCREENING COUNTRY/TERRITO Note: The address for × 0 specimens picked up at ADDRESS LINE 1 0 COMPANY DAVID AXEL ROD INSTITUTE your hospital on Friday's 1. Change the "Deliver to Address": are shipped to: Newborn Screening Program ADDRESS LINE 5184746310 590 Broadway Menands, NY 12204 ZIP CODE 12204 Wadsworth Labs 590 Broadway Menands, NY 12204 New York MENANDS 2. The ship date needs to be Friday This is a resid 3. In the box labeled Service Save as new recipient in personal address b **Options** select **Hold at FedEx** Select the following SERVICE DETAILS options location and then select 590 Broadway, Menands NY as the nearest location Service details ~ 4. Saturday delivery must be Ship Date needs to be Friday Friday, August 30, 2024 selected FedEx Priority Overnight SHOW RATES AND TRANSIT TIMES Service options Signature options (2) Hold at location must be selected Hold at location (?) FedEx Ship Center 590 Broadway, Menands, NY, US, 12204 SELECT ALTERNATIVE LOCATION Saturday delivery 🕐 Saturday delivery must be selected You can find dangerous goods, dry ice, (lithium) batteries and non-standard packaging in the in the 'Package details' section or step. Select 'Add package options' for a package row to see the options. 1

Tracking Specimens

All hospitals should have a written policy regarding specimen tracking. A staff member at your organization should be consistently tracking all shipments to ensure they are received at the NBSP laboratory within 48 hours of collection. There are two ways to track envelopes:

- 1. Navigate to the FedEx tracking <u>website</u>.
 - a. Enter the FedEx tracking number of the envelope.
 - b. Check to see if the package is delivered. You can also select "See Full Details" to see more information about the time of pickup from the hospital and delivery to the laboratory.
- Enter the 9-digit Lab ID of each specimen documented in the tracking log into the Secure Remote Viewer. If there is no record of the specimens at our facility, it is likely that the package has not yet arrived. More information regarding the Secure Remote Viewer can be found in the next section of the toolkit.
- 3. Visit the "My Specimen Tracking" module on the Hospital Communication Portal (page 38).

If a package appears to be delayed or lost in transit, please reach out to our Accessioning Supervisor by email: Fred Zielinski, <u>alfred.zielinski2@health.ny.gov</u>. Your hospital will not be penalized for any specimens that are lost or damaged in transit by FedEx.

Specimens Missing in Transit

If an envelope is in fact missing in transit, the NBSP will inform you by phone and/or email and request that you:

- 1. Let the NBSP know how many specimens were included in the envelope according to the information documented on the Newborn Screening Transport Form.
- 2. Fill out a Specimens Missing in Transit form (which will be provided to you) for each specimen included in the missing envelope OR submit scanned images of the green submitter's copies for each specimen included in the missing envelope.
- 3. For all newborns whose specimens were in the missing envelope, contact their parents **within 24 hours** to arrange for repeat screens.

Section 6: Newborn Screening Results

Accessing Newborn Screening Results

It is the responsibility of the NBSC to view and document newborn screening results for every newborn screen submitted by their hospital.

Results for all infants can be found, viewed, and printed on the Secure Remote Viewer (SRV), which is part of the newborn screening application. The SRV also allows you to see if a specimen has arrived at the NBSP lab and is in the process of being tested. The SRV is available 24 hours a day, 7 days a week and has results for all infants screened in New York for the previous 10 years.

Navigating the Secure Remote Viewer (SRV)

- 1. Log in to the Health Commerce System and then select Newborn Screening Applications.
- 2. Select the "Secure Remote Viewer" icon.



3. The search window will be displayed:

| Lab ID # | | |
|--------------------|-------|--|
| Birth Hospital | × | |
| Date of Birth | ✓ | |
| Infant's Last Name | | |
| Mother's Last Name | | |
| Mom's First Name | | |
| Medical Record # | | |
| Date Reported | ✓ | |
| | | |
| Search | Clear | |
| | | |

- 4. To look up the most recent results for all babies born at your hospital, select your hospital in the **Birth Hospital** field and select yesterday's date in the **Date Reported** field and select "**Search**.
 - a. Example: If I am looking up results on 4/22/2024, I will enter 4/21/2024 in the **Date Reported** field.
 - b. Please note that no results are released on the weekend or on state holidays. Therefore, when you look up results on a Monday, enter the date of the previous Friday to see the most recent results.
 - i. Example: If I am looking up results on Monday, 4/19/2024, I will enter the date of the previous Friday, 4/16/2024, in the **Date Reported** field.
 - 5. A list of babies will be generated. Select **Check All** at the top of the list and **View Mailer** at the bottom of the list. A pdf file of all results will download onto your computer.

- 6. To download one result at a time, check the box next to the baby's name and select **View Mailer**. The pdf file of the result will download onto your computer.
- 7. Document the results per your hospital's protocol and ensure to notify the infant's doctor of the results and any required follow-up actions. See page 18 for more information on documenting results.

If performed daily, the steps above will ensure that you have a complete record of all screening results for your hospital. Viewing and documenting these newborn screening results is an extremely important responsibility of the NBSC.

NBSCs can also look up results for a baby individually. There are three ways to do this:

- 1. Enter ONLY the baby's Lab ID number and select **Search**.
- 2. Enter ONLY the baby's Medical Record Number and select **Search**.
- 3. If you do not have the baby's Lab ID or Medical Record Number, you can enter the mother's last name, baby's date of birth, and birth hospital. ONLY enter these fields and select **Search**.

The next display will show you pertinent demographic information about the baby, including Lab ID number, name, date of birth, mother's name, hospital, and collection date. The final column on the display "Results Ready" with either a Y or a N. The Y means that the results are ready to be viewed, and the N means that the specimen has arrived at our lab but is still being tested.

If you are unable to find a screen using this method, please call the NBSP at 518-473-7552 for help locating the baby's Lab ID.

When using the SRV, you may encounter an error message that says **Enter Custom Message for SRV Here**. If this happens, please either call the NBSP at 518-473-7552 or email nbsinfo@health.ny.gov to notify us so we can reboot the SRV software. This is an easy fix but we may not know it needs to be done unless you tell us.

Please note: It takes about **5-7 days** after the specimen arrives at our lab for all testing to be completed and results released.

Documenting Results

Your hospital is required to have a protocol in place to ensure that every newborn is screened and that the results of those screens are viewed and documented. Although the details of that protocol are at the discretion of the hospital, you may find it helpful to use a specimen collection and tracking log. A specimen collection and tracking log can be used to record important information about each specimen collection, track the shipping information for each specimen, and record screening results and necessary follow-up efforts.

Please find an example specimen collection and tracking log below:

| | | | | | | Birth Fa | acility New | /born Screeni | ng Collection Log | ; | | | | | |
|--------------------------------------|--|-----------|---------------------|---|--|-----------------------|--------------------------------------|---|--------------------------------------|---------------------------------|-------------------------|-------------------|--|---|--|
| Infant's Name (Last, First) | Date of Birth @ Time of Birth | LABID | Medical Record # | Planned Health Care Provider After Discharge | Date of Collection @ Time of Collection | Collector Initials | Specimen Quality Reviewed ? | Demographics on Blood Collection Form Reviewed? | Courier Pick-up Date & Tracking # | Date NBS Results Accessed | NBS Results | Repeat Needed? | PCP Contacted for Repeat | Parent Contacted for Repeat | Follow-up Efforts Recorded in iCMS? |
| EXAMPLE: Smith, John | 2/1/21 @ 1306 | 489756321 | 7894572 | Dr. Brian Williams | 2/2/21 @ 1309 | МК | Yes | Yes | 2/3/21 − hy783js0194kgt781 | 2/8/21 | Borderline Thyroid | Yes | Phone call to Dr. William's office 2/8/21, left message notifying him of needed repeat | Phone call to mother of baby 2/8/21, she will bring baby to the PCP for the repeat | Yes |
| EXAMPLE: Brown, Jane | 2/1/21 @ 1915 | 489586235 | 4561542 | Dr. Jessica Jones | 2/2/21 @ 1922 | МК | Yes | Yes | 2/3/21 – hy783js019kgjt781 | 2/8/2021 | Sub- optimal | Yes | Phone call to Dr. Jones, 2/8/21, she will collect the repeat. Phone call from Dr. Jones 2/17/21 – repeat specimen was submitted and results are normal. | Phone call to mother of baby 2/8/21, she will follow-up with Dr. Jones. | Yes |
| EXAMPLE: Davis, Jill | 2/4/21 @ 0847 | 486529789 | 9256811 | Dr. Tom Miller | 2/5/21@ 0910 | MK | Yes | Yes | 2/5/21 – lk987hy6af1524th6 | 2/10/21 | All Results Negative | No | | | |

Interpreting Results

A newborn's screening result, also referred to as a **mailer**, will include key demographic information for the newborn as well as a summary of the results and any required actions. The reverse side of the mailer has a full list of all screened disorders and reference ranges.

It's important to note that the newborn screen is not diagnostic. If the NBSP identifies a baby with the potential for one of the disorders, the baby will be referred to a specialty care center (SCC) for an evaluation and a final diagnosis.

Normal Result: Normal results are frequently referred to as WAL, which stands for within acceptable limits. These results should be documented for the infant and relayed to the PCP, but no further action is required from the hospital of birth. Mailers for normal results are 1 page long when printed. Mailers display demographic information for the infant, as well as a list of screened disorders (on the reverse side).

Example of mailer for normal results (excluding protected health information).

Page 1.

| Pho | NEW YORK STATE DEPARTMENT O – Wadsworth Center – David Axelrod Institute one: (518) 473-7552, Fax: (518) 474-0405 CL Sciences, 150 A New Scotland Avenue, Albar | e, 120 New Scotland Ave, Albany, NY 12208 IA # 33D2005937 |
|---|--|--|
| Infant: Birth Date: Multiple Birth: Med Rec #: Specimen Date: Date Received: Date Reported: | Lab ID: Accession #: Prior Accession #: Mother: | Submitter: Hospital: |
| | ALL TESTS SCREEN-NEGA NO FOLLOW-UP ACTION REG | |
| SEE REVERSE SID | E FOR SCREENED DISORDERS | S AND REFERENCE RANGES |

Trait/Carrier Detected: A trait or carrier status may be reported for conditions such as hemoglobin disorders or cystic fibrosis. These results should be documented, but no further action is required from the hospital of birth and no repeat screen is required. The newborn's PCP should inform the family of these results. Mailers for trait/carrier results are 2 pages long. Mailers display demographic information for the infant, as well as a list of screened disorders (on the reverse side of page 1).

Example of a mailer for Sickle Cell Trait. Page 1.

| C C | NEW YORK STATE DEPARTMENT OF I gram – Wadsworth Center – David Axelrod Institute, 1 Phone: (518) 473-7552, Fax: (518) 474-0405 CLIA dical Sciences, 150 A New Scotland Avenue, Albany, | 20 New Scotland Ave, Albany, NY 12208 # 33D2005937 |
|---|---|--|
| Infant: Gender Birth Date: Mother: Address: Telephone: | Lab ID: Accession #: Prior Accession #: Specimen Date: Date Received: Date Reported: Multiple Birth: | Submitter Code: Hospital: City: Med Rec No: Physician: |
| S | CREEN POSITIVE NEWBORN SCREEN | NING RESULT |
| DISORDER | SCREENING RESULT | EXPECTED RANGE – See Page 2 |
| Disorder name | Screen Negative | |
| Disorder name | Screen Negative | |
| Hemoglobin | Trait Detected | |
| Disorder name | Screen Negative | |

Page 2.

NEW YORK STATE DEPARTMENT OF HEALTH

Newborn Screening Program – Wadsworth Center – David Axelrod Institute, 120 New Scotland Ave, Albany, NY 12208 Phone: (518) 473-7552, Fax: (518) 474-0405 CLIA # 33D2005937 Center for Medical Sciences, 150 A New Scotland Avenue, Albany, NY 12208 CLIA # 33D2180845

Infant: Gender Birth Date: Mother: Address: Telephone: Lab ID: Accession #: Prior Accession #: Specimen Date: Date Received: Date Reported: Multiple Birth:

Submitter Code: Hospital: City: Med Rec No: Physician:

Comments

Hemoglobin: HGB F, HGB A, and HGB S; Consistent with Sickle Cell Trait. It is recommended that the parents are advised of this result and referred for education and/or genetic counseling as needed. Sub-optimal Specimen: A sub-optimal specimen is tested for some disorders, but a repeat specimen is required as soon as possible due to the poor quality and unreliability of the sub-optimal specimen. It is the responsibility of the hospital of birth to notify the infant's PCP and guardians that a repeat specimen is required within 1 day of learning of the result. Mailers for sub-optimal specimens are 2 pages long. Mailers display demographic information for the infant, as well as a list of screened disorders (on the reverse side of page 1).

Example of mailer for a sub-optimal specimen.

| Page 1. | | |
|---|--|--|
| - | NEW YORK STATE DEPARTMENT Program – Wadsworth Center – David Axelrod Insti Phone: (518) 473-7552, Fax: (518) 474-0405 r Medical Sciences, 150 A New Scotland Avenue. Al | tute, 120 New Scotland Ave, Albany, NY 12208 CLIA # 33D2005937 |
| Infant: Gender Birth Date: Mother: Address: Telephone: | Lab ID: Accession #: Prior Accession #: Specimen Date: Date Received: Date Reported: Multiple Birth: | Submitter Code: Hospital: City: Med Rec No: Physician: |
| | REPEAT SPECIMEN REC | QUIRED |
| DISORDER | SCREENING RESULT | EXPECTED RANGE – See Page 2 |
| Disorder name | Suboptimal for testing – See Commen | ts |
| Disorder name | Screen Negative | |
| Disorder name | Screen Negative | |
| Disorder name | Suboptimal for testing – See Commen | ts |
| Disorder name | Suboptimal for testing – See Commen | ts |

Page 2.

NEW YORK STATE DEPARTMENT OF HEALTH

Newborn Screening Program – Wadsworth Center – David Axelrod Institute, 120 New Scotland Ave, Albany, NY 12208 Phone: (518) 473-7552, Fax: (518) 474-0405 CLIA # 33D2005937 Center for Medical Sciences, 150 A New Scotland Avenue, Albany, NY 12208 CLIA # 33D2180845

Infant: Gender Birth Date: Mother: Address: Telephone: Lab ID: Accession #: Prior Accession #: Specimen Date: Date Received: Date Reported: Multiple Birth: Submitter Code: Hospital: City: Med Rec No: Physician:

Comments

Specimen appeared clotted or layered and was suboptimal for testing.

A REPEAT SPECIMEN IS REQUIRED.

Borderline Result: A borderline result refers to a value that is not in the normal range for the disorder but is not in the referral range. Borderline results require a repeat specimen as soon as possible. For some borderline results, a PCP can complete independent lab tests and send the results to the NBSP in lieu of a repeat specimen. It is the responsibility of the hospital of birth to notify the infant's PCP and guardian(s) that a repeat specimen is required within 1 day of learning the result. Mailers for borderline results are 2 pages long. Mailers display demographic information for the infant, as well as a list of screened disorders (on the reverse side of page 1).

Example of a mailer for a borderline hypothyroidism result. Page 1.

| | NEW YORK STATE DEPARTMENT gram – Wadsworth Center – David Axelrod Insti Phone: (518) 473-7552, Fax: (518) 474-0405 dical Sciences, 150 A New Scotland Avenue, Al | tute, 120 New Scotland Ave, Albany, NY 12208 CLIA # 33D2005937 |
|---|---|--|
| Infant: Gender Birth Date: Mother: Address: Telephone: | Lab ID: Accession #: Prior Accession #: Specimen Date: Date Received: Date Reported: Multiple Birth: | Submitter Code: Hospital: City: Med Rec No: Physician: |
| SC | CREEN POSITIVE NEWBORN SCF REPEAT SPECIMEN REC | |
| <u>DISORDER</u> | SCREENING RESULT | EXPECTED RANGE – See Page 2 |
| Hypothyroidism | Borderline – See Comments | |
| Disorder name | Screen Negative | |
| Disorder name | Screen Negative | |

Page 2.

NEW YORK STATE DEPARTMENT OF HEALTH

Newborn Screening Program – Wadsworth Center – David Axelrod Institute, 120 New Scotland Ave, Albany, NY 12208 Phone: (518) 473-7552, Fax: (518) 474-0405 CLIA # 33D2005937 Center for Medical Sciences, 150 A New Scotland Avenue, Albany, NY 12208 CLIA # 33D2180845

Infant: Gender Birth Date: Mother: Address: Telephone: Lab ID: Accession #: Prior Accession #: Specimen Date: Date Received: Date Reported: Multiple Birth: Submitter Code: Hospital: City: Med Rec No: Physician:

Comments

Hypothyroidism: Slightly elevated level of TSH. A repeat newborn screen specimen or serum thyroid function tests are required.

Referrals: A referral result is a value that is clearly abnormal, above the referral cut-off, and requires independent testing and/or evaluation with a specialist. Referrals are identified and provided to NBSP Follow-up staff by NBSP Laboratory staff. Results in the referral range are available before the entire panel is tested, typically within 1 day of the screen being received. In the case of a referral, the newborn's PCP and the assigned SCC is notified of the results via phone, fax, and/ or email. If the PCP is unknown, the NBSP will contact the NBSC at the hospital of birth for help locating the proper provider. Mailers for referral results are 2 pages long, except for mailers with molecular testing included, which are 3 pages long. Mailers display demographic information for the infant, as well as a list of screened disorders (on the reverse side of page 1).

Example of a mailer for a hypothyroid referral. Page 1.

| - | NEW YORK STATE DEPARTMENT OF rogram – Wadsworth Center – David Axelrod Institute Phone: (518) 473-7552, Fax: (518) 474-0405 CLI ledical Sciences, 150 A New Scotland Avenue, Alban | , 120 New Scotland Ave, Albany, NY 12208 A # 33D2005937 | | |
|---|---|--|--|--|
| Infant: Gender Birth Date: Mother: Address: Telephone: | Lab ID: Accession #: Prior Accession #: Specimen Date: Date Received: Date Reported: Multiple Birth: | Submitter Code: Hospital: City: Med Rec No: Physician: | | |
| | SCREEN POSITIVE NEWBORN SCREI | | | |
| DISORDER | SCREENING RESULT | EXPECTED RANGE – See Page 2 | | |
| Hypothyroidism | Abnormal/Disease – See Comments | Value | | |
| Disorder name | Value Screen Negative | | | |
| Disorder name | Screen Negative | | | |
| Page 2. | | | | |
| - | NEW YORK STATE DEPARTMENT OF rogram – Wadsworth Center – David Axelrod Institute Phone: (518) 473-7552, Fax: (518) 474-0405 CLI ledical Sciences, 150 A New Scotland Avenue, Alban | , 120 New Scotland Ave, Albany, NY 12208 A # 33D2005937 | | |
| Infant: | Lab ID: | Submitter Code: | | |
| Gender | Accession #: | Hospital: | | |
| Birth Date: | Prior Accession #: | City: | | |
| Mother: | Specimen Date: | Med Rec No: | | |
| Address: | Date Received: | Physician: | | |
| Telephone: | Date Reported: | | | |
| | Multiple Birth: | | | |
| | Comments | | | |
| Hypothyroidism: C | consistent with primary hypothyroidism. | | | |
| Preliminary results for T | 4 and TSH reported by telephone to Specialty C | are Center (SCC) on 1/4/2020. | | |
| | | · · · | | |

Section 7: The Follow-up Process

What is Follow-up?

Follow-up (FU) refers to any actions needed after a screen is collected. The NBSC is the main contact person responsible for FU actions.

Follow-up Required for Borderline, Unsuitable, and Sub-optimal Specimens A repeat newborn screening specimen must be submitted for all specimens that are borderline.

unsuitable, or sub-optimal for testing. It is the responsibility of the NBSC to:

- 1. Look up and document (in the newborns medical record) **all** results for screens submitted by your hospital.
- 2. For unsuitable, sub-optimal, and borderline results:
 - a. Notify both the infant's PCP and the infant's guardians of the need for a repeat newborn screening specimen within 1 business day of learning the results.
 - b. Inform the NBSP of their follow-up efforts, including the date of contact, type of contact (phone, mail, etc.), who was contacted, and any response received from the PCP or infant's guardians. NBSCs must provide documentation of their follow-up efforts to the NBSP within 90 days of learning the results of the screen if a repeat has not been collected.

We understand that in some instances, despite your best efforts, a repeat screen cannot be collected. Although unfortunate, the situation will not be held against you if you provide appropriate documentation within 90 days. If you have documented all cases that need repeat screens, contacted the infant's PCP and guardians, and have notified the NBSP of your follow-up efforts, then you have fulfilled your responsibilities as the NBSC.

Follow-up Required for Referrals

Generally, it is the responsibility of the infant's PCP and the assigned SCC to handle follow-up duties related to referrals. However, the NBSP may contact you for help finding contact information for either the infant's PCP or parents/ guardians.

Follow-up Required for Traits/Carriers

Generally, it is the responsibility of the infant's PCP to inform the family of the trait/carrier status and refer the family to genetic counseling when necessary. The hospital of birth will receive a letter and informational brochure for sickle trait and cystic fibrosis carriers. The hospital should document the result but does not need to conduct any follow-up on the case.

Case Demographics (iCMS)

The NBSP utilizes a software program called the Case Management System to track and handle cases requiring follow-up (i.e., any cases that have unsuitable, borderline, or referral-level results). There is an internet-based version of this software called iCMS (Internet Case Management System) that is available within the newborn screening application. iCMS allows hospital staff to view most aspects of a baby's newborn screening case exactly as NBSP staff see it. It also gives hospital staff the ability to enter important case information and updates directly into the case without having to mail, fax, or call the NBSP.

iCMS only contains records for babies requiring follow-up, and therefore does not contain records for screen negative results.

To access iCMS:

1. Log in to the Health Commerce System website and the newborn screening application, then select the **Case Demographics** icon.



2. The following search window will be displayed:

| Lab ID # Birth Hospital Date of Birth Infant's Last Name Mother's Last Name Mother's First Name | |
|--|-------|
| Medical Record # | Reset |

- 3. Search for the case you would like to view. There are two ways to do this:
 - a. Enter ONLY the Lab ID or Medical Record Number and select Search.
 - b. Enter ONLY the mother's last name, child's date of birth, and birth hospital and select **Search**.
- 4. When the record comes up, choose the blue **Select** link on the left.
- 5. This will bring you to the iCMS home screen in the case.

iCMS Home Screen:

- 1. The baby's mother's information, including address and phone number will be shown.
- 2. In the upper right of the window, there is a "Screen X of ___", "<u>Prev</u>" and "Next" which indicates how many specimens the baby has had. If there is more than one, the arrows can be used to move between the specimens.
- 3. The blue box at the top contains basic information about the baby, including mother's name, date of birth, birth order, sex, lab ID and accession number, and the PCP provided on the specimen collection card.
- 4. This section also provides the case status open or closed. If the case status is listed as closed it is likely we do not require any additional casework, but please review the notebooks and most recent result to be sure.
- 5. "Cancel" or "Retry" on the upper right of the screen closes out the case and returns you to the search screen.

iCMS Notebook:

1. The "Notebook" field can be accessed by selecting the link in the "Case Information" menu on the left of the screen. These are case notes. You can read all previous notebooks to see what has

been done on the case and you can add your own comments by scrolling to the bottom and selecting "Add Note." This will likely be the iCMS feature that you use the most. Please add any information that will assist with case management.

Here are some examples of helpful updates:

- a. Calls made or letters sent to the family to get a repeat. Stipulate what happens when you make the call (examples: phone out of order or you left a message, and it was never returned).
- b. Calls or letters to PCP, add the date of contact and what was included in the letter/discussed on the phone call
- c. Changes in any demographic info
- d. New PCP name and phone number
- e. Baby's AKA (new, legal name)
- f. Notice that the baby has passed away
- g. Note that all the above replaces information requested on the "Follow Up Summary Form" we mail to you, so there is no need for you to complete the form and fax it to us.
- Please include your name at the end of your notebook entry, as on our end it only appears as 'Web User,' and select "save." Once you've completed your note and saved it, it becomes part of that baby's record.
- 3. When you enter a notebook, NBSP staff receive an alert. This ensures a review of your notebook will occur by the staff within 24 hours.

iCMS Image Capture:

- The "Image Capture" field can be accessed by selecting the link in the "Case Information" menu on the left of the screen. This feature allows you to view documents that have been uploaded to the case by selecting the little magnifying glass. In addition, you can upload files to the case. Examples of helpful information that may be uploaded include:
 - a. Independent lab results to follow-up on a borderline result
 - b. Letters sent to parents and/or PCPs notifying them a repeat is needed.

iCMS Provider:

- 1. The "Provider" field can be accessed by selecting the link in the "Case Information" menu on the left of the screen. This field lists who the NBSP believes to be the baby's current PCP. If more than one provider is listed, the bottom one is the current PCP.
- 2. If the PCP listed here is incorrect, please add a Notebook to the child's case indicating the name and phone number of the correct provider.

iCMS Laboratory Results:

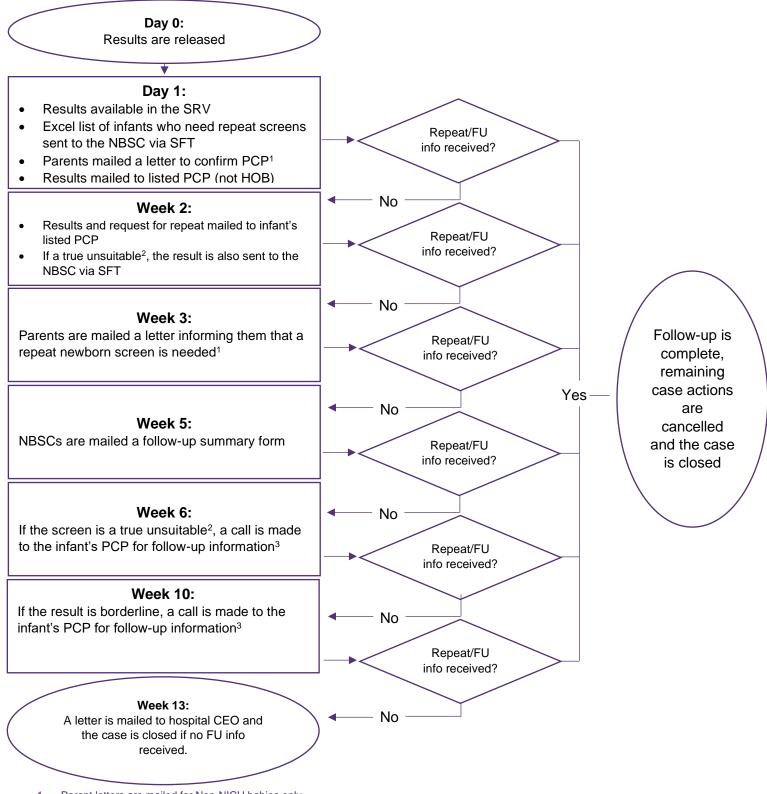
 The "Laboratory Results" field can be accessed by selecting the link in the "Laboratory Information" box on the left of the screen. This can be used to download and/or print a copy of the child's newborn screening report. To do so, click the little magnifying glass. To print, select the printer icon to left of "Close this window to Return" on top.

If you have any questions about the newborn screening application or iCMS, please call the NBSP at 518-473-7552 or email us at nbsinfo@health.ny.gov.

Note: Although entering follow-up notes in Case Demographics (iCMS) is the preferred method of follow-up documentation, you can also submit documentation by faxing or emailing a completed <u>follow-up summary form</u> for the case to the NBSP.

The Newborn Screening Program's Follow-up Process

Although it is the hospital of birth's responsibility to look up screening results and conduct any necessary followup, the NBSP does contact the hospital of birth as well as the infant's PCP and parents when a repeat screen is needed. The NBSP's follow-up actions are detailed in the process map below:



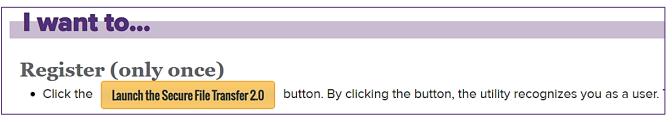
- Parent letters are mailed for Non-NICU babies only. 1.
- A screen is a true unsuitable if the blood quantity is insufficient, there is no blood, or it is diluted/contaminated. 2.
- 3. If the infant's PCP is unknown, the NBSC at the hospital of birth should contact the parents/ guardians to get the updated PCP information.

Notification of Needed Repeats via Secure File Transfer (SFT)

An repeat request specimen list is sent to NBSCs via Secure File Transfer (SFT). This is an application available through the Health Commerce System that allows users to send protected health information securely. The NBSP cannot send you packages through the SFT without your Health Commerce System ID. You can send your Health Commerce System ID to the NBSP via email at nbsinfo@health.ny.gov.

To set up SFT:

- 1. Log on to the Health Commerce System
- 2. Click on **My Content** → **My Applications**
- 3. Click the letter 'S' and select Secure File Transfer 2.0
- 4. Click on the green button with the white plus sign to add it to your My Applications list.
- 5. Once added, click on Secure File Transfer 2.0 from your My Applications list to open.
- 6. Under "Register (only once)" Click the yellow button that says "Launch the Secure File Transfer 2.0"



7. You will be redirected to the SFT 2.0 home page. You are now registered and can begin receiving documents from the NBSP.

To open a package using SFT:

- 1. You will receive an email notification after a package has been sent to you.
- 2. Open the SFT 2.0
- 3. New packages notifications will appear on your home page.
- 4. To open the package, open your inbox and click on the text in the Subject field of the package.
- 5. Click "Download" to view and save any attached files.

| From: Newborn Screening Information - Shared Mailbox at 7/15/2021 3:27:38 PM |
|--|
| Subject: test |
| Mailbox: |
| My Mailboxes 🕨 🛅 Inbox |
| Will Expire: in 14 days |
| |
| |
| test |
| |
| |
| Files: |
| 🗋 1.xlsx 📀 🗹 (165.7 KB) Download |

To send a package using SFT:

- 1. Open the SFT 2.0
- 2. Click "Launch the Secure File Transfer 2.0" button at the top of the page

3. From the home page, click Send Package

| Send Package Request Files | InboxContacts | Recent Downloads |
|----------------------------|--|------------------|
| | | |
| ✓ New Packages (0) | | |

- Click in the 'To' field and enter the recipient's last name or Health Commerce System user ID. If you are sending to multiple recipients, use a comma or semi-colon in between names or IDs. (To send to the NBSP, type Newborn Screening Information – Shared Mailbox in the 'To' field).
- 5. Click the Check Recipients button.
 - a. If there are multiple people with the same last name, a list will come up and you can put

| Send | Preview Check Recipients Cancel Save As Draft Save As Template | |
|---|--|--|
| From: | | |
| To Newborn Screening Information - Shared Mailbox | | |
| | Show Cc/Bcc Manage Contacts | |

a check mark next to the correct name.

- b. If entered the Health Commerce System ID, the user information should auto populate into the 'To' field.
- 6. Enter a Subject and a Note.
- 7. Click Upload File to add a file.
 - a. Browse to file location and select file
 - b. Click Upload
- 8. Click the Delivery Receipt(s) box if you want to be notified when the recipient opens the SFT message you have sent them, then click send.

CEO Letters

- 9. Per <u>Section 69-1.3(f)(1) of the Title 10 of the New York Codes, Rules and Regulations,</u> "when notified by the testing laboratory that a repeat specimen is required, the hospital shall notify the parent(s) and responsible provider within one (1) business day that a repeat specimen is required from the newborn. The hospital shall collect the repeat specimen, pursuant to guidance issued by the testing laboratory, and submit it to the testing laboratory as soon as practicable".
- 10. When the NBSC at a hospital does not fulfill his/her follow-up duties within 90 days of the newborn screening result being issued, a letter detailing the non-compliance issue is sent to the hospital's CEO. Any hospital that receives one or more CEO letters is required to submit written policies and procedures related to the collection, storage, tracking and shipping of specimens and documentation of completion of annual training for the employee who collected the specimen within 30 days of the letter date.
- 11. If you have contacted the parent(s) and responsible provider of the infant to inform them of the needed repeat and have submitted documentation of that contact to the NBSP within 90 days of the results being released, a CEO letter will not be issued. However, if no repeat specimen is received and we do not receive notice of the NBSC's follow-up efforts, a CEO letter may be issued.

Section 8: Hospital Performance Data

Hospital Report Cards

Each month, your hospital will receive a monthly report card that details your compliance in the following areas:

- 1. Specimens Collected Within 36 Hours of Age (initial specimens only)
- 2. Specimens Received at Lab Within 48 Hours of Collection
- 3. Unsuitable Specimens: Specimens submitted that were unsuitable for testing
- Unsuitable Specimens (Non-NICU): Non-NICU specimens submitted that were unsuitable for testing
- 5. **Incomplete Blood Collection Form (Missing Data)**: Blood collection forms submitted with missing and/or incorrect required data fields. Data fields analyzed for this metric are as follows:
 - Date of Birth
 - Time of Birth (military time)
 - Date of Specimen
 - Time of Collection (military time)
 - Birth Weight (grams)
 - Gestational Age (weeks/days)
 - Sex
 - Birth Order
 - Medical Record Number
 - Zip Code (under mother's address)
 - Mother's Date of Birth

The report cards also show your hospital's rank among all birth hospitals in NYS. The report cards are emailed each month to the following designees at each hospital:

- 1. CEO
- 2. Newborn Screening Coordinator
- 3. Director of Nursing
- 4. Nurse Manager, Nursery
- 5. Nurse Manager, NICU
- 6. Quality Assurance/Risk Manager
- 7. Physician Receiving Abnormal Results

Your hospital's newborn screening team should review each monthly report card. If your hospital's report card shows areas of low compliance, process improvements should be made. Process improvements may include, but are not limited to:

- Updating written protocols for specimen collection
- Implementing additional education for staff
- Improving/updating staff training protocols
- Reviewing the New York State newborn screening regulations

Site Visits

If your hospital report cards show areas of low compliance, and you aren't sure how to improve, please email <u>nbsinfo@health.ny.gov</u> to request a virtual site visit.

A **virtual** site visit is a meeting between NBSP staff and your hospital's key newborn screening team members to outline your hospital's strengths and weaknesses regarding newborn screening, and to discuss quality improvement efforts that may work well for your hospital. During a site visit you can expect:

- A presentation on key newborn screening regulations
- A visual of your hospital's newborn screening compliance over the last 18 months
- A discussion about your hospital's strengths and weaknesses
- Tailored suggestions for improvement
- Ample time to ask the NBSP team questions

Generally, a site visit takes about 2 hours to complete. Site visits are an excellent opportunity to strengthen your hospital's relationship with the NBSP and have open discussion about how to tackle barriers that prevent your hospital from making newborn screening improvements.

Section 9: The Hospital Communication Portal

The Newborn Screening Program has launched an exciting new resource called the Hospital Communication Portal (HCP). The HCP is available through the Health Commerce System, and will allow you to view monthly report card data, track specimens, respond to CEO letters, and more!

Follow the steps below to gain access to the HCP:

1. Log in to your HCS account. Click on My Content and then See what roles I hold.

| ଜ | Home - | A My Content 🗸 | Q, Search | 🕲 Help 🗸 | 🕼 Log out |
|---|---------|-----------------|-----------|----------|-----------|
| | Look up | my coordinators | | | |
| | See wh | at roles I hold | | | |
| | Look up | o my PIN | | pients | |

- 2. If you hold the role of Newborn Screening Hospital Communication App User, go to step 6.
- 3. If you do **not** hold the role of Newborn Screening Hospital Communication App User click on My Content and then Look up my coordinators.
 - a. Contact any of the HCS Coordinators listed and ask them to assign you the role of **Newborn Screening Hospital Communication App User**.
- 4. If your HCS Coordinator does not know how to assign a role, they should follow these steps:
 - a. Click Coordinator's Update Tool.
 - b. Select the appropriate organization.
 - c. Click Manage Role Assignments (blue tab).
 - d. Click the **Modify** link located to the right of the role name.
 - e. Under section 2 (if no one is in the role) or section 3 (if the role has been assigned), **check the box to the right of the person** with the ID you wish to add to the role.
 - f. Avoid assigning the role if you see an **NA** after a user's name. This will not assign the user any permissions.
 - g. If you cannot locate the person on the list, then proceed to the last option, **Search for Person(s) by Name**:
 - i. Enter the last name in Search for Person(s) by Name and click Submit.
 - ii. Select the person in the list with a valid user ID.
 - iii. Click Add Role Assignments.
 - iv. Assign the appropriate user the role of **Newborn Screening Hospital Communication App User**.

For additional assistance with HCS accounts and role assignment, please call the Commerce Accounts Management Unit (CAMU) at 866-529-1890 and press option 2.

- 1. Once you have the proper role added, log in to your HCS account.
- 2. Look for the application in your My Applications list. The name of the application is NBSHCA.

A link to a comprehensive user guide is available on the home page of the HCP. The user guide provides step-by-step instructions for navigating and using the modules within the HCP.

Section 10: Updating Newborn Screening Designees in HERDS

Health Electronic Response Data System (HERDS)

All newborn screening contacts must be updated in an online application called the Health Electronic Response Data System (HERDS), available through the Health Commerce System. The Newborn Screening Hospital Contacts and Designee form must be completed **annually** and must be **updated within 30 days of a change** in designee. This form can only be accessed in HERDS and cannot be accessed through the Newborn Screening Application.

Accessing the HERDS Application

- 1. Log on to the Health Commerce System
 - If you cannot remember your user id or password, please call Commerce Accounts Management Unit at 1-866-529-1890.
- 2. Add the HERDS application, if you have not done so already.
 - a. Select **My Content > All Applications** from the Main Menu Bar.
 - b. Select **H** for HERDS
 - c. Click the **green button** with the white addition sign located to the right of the application name to add HERDS to your **My Applications** list.
 - d. Once added, click HERDS on the My Applications list to open.

Viewing and Completing the Form in HERDS

- 1. Click Data Entry.
- 2. Select the Newborn Screening Hospital and Contacts Designee form from the activity drop down box.
- 3. Complete and save the form. NOTE: Completing/saving the form is NOT the final step in the process.
- 4. The hospital CEO/President must log in to HERDS to review and submit the form. Since the hospital CEO is responsible for assigning designees, the form can only be submitted by the CEO/President user role.
- 5. If there are changes throughout the year, follow the same process but update only the changed information.

Assigning A Role in The Communications Directory

The form can be viewed/completed by the following roles:

- HERDS System Administrator
- CEO/President
- Chief of Neonatology/Newborn Services
- Director of Maternity Services
- Director of Nursing
- Newborn Screening Manager
- SDF Reporter

If you cannot see or complete the form, it is likely that you have not been assigned one of the above roles. You can check your assigned roles by clicking **My Content** on the purple bar at the top of the Health Commerce System homepage and then **See what roles I hold**.

The Health Commerce System Coordinator at each hospital can assign roles, if needed. To find the name of the Health Commerce System Coordinator at your institution, Select **My Content** >**Look up my coordinators**.

The Health Commerce System Coordinator at your hospital can assign roles by following the directions below:

- 1. Click Coordinator's Update Tool
 - Select the appropriate organization
 - Click Manage Role Assignments (blue tab) Click the Modify link located to right of the role name
 - Under section 2 (if no one is currently in role) or section 3 (if role has been assigned), **check the box to the right of the person** with an ID you wish to add to the role.
- 2. Avoid assigning the role if you see an **NA** after a user's name. This will not assign user any permissions.
- 3. If you cannot locate the person on the list, then proceed to the last option, **Search for Person(s)** by Name.
- 4. Enter the person's last name in the Search for Person(s) by Name.
- 5. Click **Submit**
- 6. Select the person in the list with a valid user ID
- 7. Click Add Role Assignments.

If the person and user ID appear in Manage People, you can use this method to assign one or more roles:

- 3. Click Coordinator's Update Tool
 - Select the appropriate organization
 - Click Manage People (blue tab)
 - Click on the user's name you want to assign role(s) to
 - a. If you do not see the user in the list, the user may have a Primary Organization with another facility/agency or may have attained a Health Commerce System account using their medical license. In other words, you will not see the user in your Manage People tab. Use instructions above.
- 4. Click Manage Role Assignments tab
- 5. Check the box next to the role(s) you wish the user to hold
- 6. Click Revise Role Assignments.

For additional assistance, please call the Commerce Accounts Management Unit (CAMU) at 866-529-1890 press option 2. The NBSP cannot complete these steps on your behalf.

Newborn Screening Designee Descriptions

The following provides descriptions of titles identified in the Newborn Screening Hospital Contacts and Designee form and the responsibilities for each role:

Chief Executive Officer

- Is aware of and fully understands their newborn screening responsibilities as outlined in 10 NYCRR 69-1.3 (access the regulation <u>here</u>).
- Ensures that all duties are appointed to appropriate hospital personnel who will act on their behalf to carry out those duties.
- Informs appointed designees and contacts of their roles and responsibilities.
- Reviews and submits the Newborn Screening Hospital Contacts and Designee form **annually** and within 30 days of any designee changes.

Newborn Screening Coordinator (NBSC)

- Ensures that the hospital has received newborn screening results for all specimens collected at the hospital.
- Resolves discrepancies related to specimen identification, provides missing or illegible data submitted with the specimen and/or provides follow-up information.
- Documents the infant's LAB ID in the discharge summary.
- Receives unsuitable/sub-optimal specimen lists from the NBSP.
- Ensures that repeat specimens are submitted after an unsuitable/sub-optimal specimen or when a borderline newborn screening result is issued.
- Contacts the infant's post discharge PCP for notification of the need for a repeat specimen.
- Documents all efforts made to secure a repeat specimen within 90 days of receipt of the abnormal result if a repeat specimen cannot be obtained.
- Orders, receives, properly stores, and distributes the newborn blood collection forms and newborn screening educational materials.
- Communicates with the Department of Health as necessary regarding maternal/newborn HIV testing regulations in the labor, delivery, and nursery settings.

Quality Assurance/Risk Manager

- Monitors quality indicators as provided in the Monthly Report Card.
- Remediates institutional performance issues.
- Conducts/ensures staff receives education related to newborn screening program.
- Documents completion of training for all staff involved in the newborn screening process.

Director of Nursing

• Assumes the responsibilities of the quality assurance/risk manager in their absence.

Nurse Manager, Nursery

 Provides information, resolves problems, and performs other duties related to NBS. If NBSC is unavailable, the nurse manager will perform duties involving infants under hospital's care at the time of specimen submission.

Nurse Manager, NICU

 Provides information, resolves problems, and performs other duties related to NBS. If NBSC is unavailable, the nurse manager will perform duties involving infants under hospital's care at the time of specimen submission.

Physician Receiving Abnormal Results

• Receives all abnormal test results and takes appropriate action to ensure newborns receive appropriate follow-up. May delegate the receipt of the abnormal test results to the NBSC.

HIV Physician Designee

• Receives all abnormal HIV test results and takes appropriate action to ensure newborns receive appropriate follow-up. Resolves discrepancies related to individual HIV box entries. May delegate this responsibility.

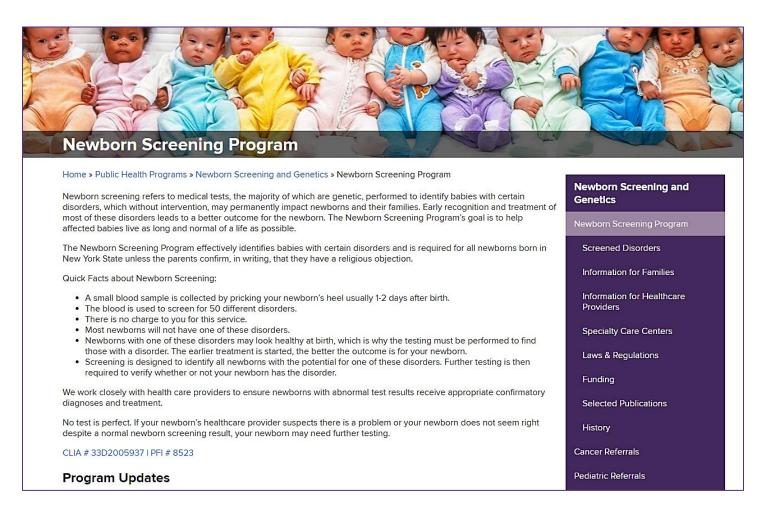
Specimen Packaging and Shipping Issues Contact

- Prepares the specimens for FedEx pickup and transport to the NBSP.
- Ensures that transport forms are complete.
- Serves as a contact for any shipping issues.

Section 11: Overview of the Newborn Screening Program Website

Much of the information in this toolkit can also be found on the NBSP's website, which has the most up to date information regarding newborn screening protocols, laws and regulations, and information for families and healthcare providers. It is an important resource for all newborn screening stakeholders.

Please visit our website regularly for important program updates: https://www.wadsworth.org/programs/newborn/screening



When you visit the website, you will see a purple navigation pane on the right-hand side of the home screen. There are different topic headings listed on the navigation pane. Please take time to click through each heading and review the information stored there.

Though you should explore the entire website, the **Information for Healthcare Providers** and Laws **& Regulations** headings will be the most applicable to NBSCs. The following pages of the toolkit will outline what you can expect to find under those headings, and where our most helpful information for NBSCs is stored.

Information for Healthcare Providers

| Overview of Laboratory Testing | A description of the specimen testing procedure, from receipt of specimens at the lab to reporting results | | |
|--|--|--|--|
| Specimen Collection | Proper specimen collection techniques How to avoid unsuitable specimens A video tutorial for proper specimen collection | | |
| Obtaining Results | A link to the Secure Remote Viewer (to access results) A link to the Record Request form | | |
| Forms | A link to general newborn screening forms, such as follow-up summary forms, transit forms, and diagnostic forms for various disorders | | |
| Requesting Newborn Screening Materials | A fillable form to request newborn screening materials including blood collection forms, For Your Baby's Health brochures (in multiple languages), and various posters | | |
| Hospital Contacts and Designees | Instructions to access HERDS and update hospital designees | | |
| Notes for Hospitals | Archived notes from monthly hospital report cards | | |

Laws & Regulations

The NBSP was established in Public Health Law (2500a; 2500f) in 1965 and is described by regulations (NYCRR 10, subpart 69-1) that are updated regularly to maintain the timeliness and efficiency of the NBSP. It is important to understand these laws and regulations when acting as the NBSC for your hospital.

Newborn Screening regulations were most recently updated in February 2019. These updates led to changes in how birth hospitals collect, dry, and ship newborn screening specimens. In response to the regulation updates, the NBSP conducted a series of six webinars that explained all changes in-depth.

Watching the webinars is a great way to become familiar with the newborn screening regulation and provides a great overview of hospital responsibilities regarding newborn screening.

Helpful Web Addresses

There are many links embedded in the toolkit. Below is a list of the pages that have embedded links and the full web address that corresponds to each embedded link.

Page 5:

Newborn Screening Regulations: <u>https://regs.health.ny.gov/volume-1a-title-10/content/subpart-69-1-newborn-screening-phenylketonuria-and-other-diseases</u>

Page 6:

- Register for a Health Commerce System account (prescribing medical professionals): <u>https://apps.health.ny.gov/pub/top.html</u>
- Register for a Health Commerce System account (other users): <u>https://apps.health.ny.gov/pub/usertop.html</u>
- Health Commerce System Log in: <u>https://hcsauth.health.ny.gov/authenticationendpoint/login.do?RelayState=%252Fhcs%252Findex.html&commonAuth</u> <u>CallerPath=%2Fsamlsso&forceAuth=false&passiveAuth=false&tenantDomain=carbon.super&sessionDataKey=9ab14</u> <u>08a-2e8c-4c39-891c-</u>

879899006b9c&relyingParty=hcs&type=samlsso&sp=hcs&isSaaSApp=false&authenticators=HCSCustomAuthenticato

Page 7:

Order Newborn Screening Materials: <u>https://www.wadsworth.org/programs/newborn/screening/providers/request-materials</u>

Page 8:

Order Newborn Screening Materials: <u>https://www.wadsworth.org/programs/newborn/screening/providers/request-materials</u>

Page <u>10</u>:

Information on Specimen Collection: <u>https://www.wadsworth.org/programs/newborn/screening/providers/specimen-collection</u>

Page 13:

Specimen Collection Video Guide: <u>https://www.wadsworth.org/programs/newborn/screening/providers/specimen-collection</u>

Page 15:

Refusal of Newborn Screening Form: <u>https://www.wadsworth.org/sites/default/files/2024-05/Refusal%20of%20Newborn%20Screening%20for%20Religious%20Reasons%202.pdf</u>

Page 20:

Newborn Screening Transport Form:

https://www.wadsworth.org/sites/default/files/WebDoc/1539761599/Newborn_Screening_Transport_Form.pdf

Page 21:

FedEx Website: <u>https://www.fedex.com/en-us/tracking.html</u>

Page 22:

– Record Request Form:

https://www.wadsworth.org/sites/default/files/WebDoc/POL_5.6%20v2.3%20Request%20for%20Newborn%20Screeni ng%20Results%20and%20Physician%20Attestation%20Statement.pdf

Page 32:

Follow-up Summary Form: <u>https://www.wadsworth.org/sites/default/files/WebDoc/1334337137/Follow-Up_Summary_Form.pdf</u>

Page 35:

Regulation Describing the Duties of a Hospital CEO: <u>https://regs.health.ny.gov/content/section-69-13-responsibilities-chief-executive-officer</u>

Page 41:

 Regulation Describing the Duties of a Hospital CEO: <u>https://regs.health.ny.gov/content/section-69-13-responsibilities-</u> <u>chief-executive-officer</u>

Page 43:

- Newborn Screening Program Website: https://www.wadsworth.org/programs/newborn/screening

Glossary of Newborn Screening Terms

- 1. **Confirmatory/diagnostic/independent test** a clinical test (blood work, urine test, imaging study, etc.) to confirm or rule out the presence of a specific disease suggested because of a positive screen.
- Documentation faxes, letters or emails received by the NBSP that provide updates or new information on cases. Examples include follow-up summary forms returned by provider or hospital, emails from parents to provide correct pediatrician, undeliverable mail returned by the Post Office, and independent lab results.
- 3. **Follow-up** timely actions taken to ensure a newborn receives appropriate repeat screening, diagnostic work-up, and/or evaluation.
- 4. Hospital of birth (HOB) hospital where a baby was born.
- 5. **Independent testing** a clinical test, usually blood work, ordered by a clinician to follow-up on a specific newborn screen result. Examples include thyroid function testing for borderline TSH results, and plasma amino acids for borderline amino acid disorders.
- Indeterminate screen a newborn screen for which the testing failed for one or more disorders and a result is not available. A repeat screen or independent testing is recommended following an indeterminate screen.
- 7. Long-term follow-up (LTFU) assessment of the clinical outcome after a disease is confirmed.
- 8. Lost to follow-up newborn is unable to be located for completion of follow-up.
- 9. **Mailer** test report; a term used internally within the NBSP, but it is also used on the Secure Remote Viewer on the newborn screening application on the Health Commerce System website.
- 10. **Newborn Screening Coordinator (NBSC)** a hospital staff member assigned by the institution's CEO to be a point person for the NBSP. Their responsibilities include working to obtain repeat newborn screens as directed by the NBSP and communicating these efforts to NBSP staff.
- 11. **Notebook** written notes in the Laboratory Information Management System documenting phone calls, reviewed or sent correspondence, and/or any other case updates. Notebooks may be entered and read by NBSP staff as well as by hospital staff using iCMS.
- 12. **Pilot study** a research study to detect one or more disorders that are not on the regular newborn screening panel. Pilot studies are usually small (limited to just a few hospitals) and require consent, meaning that the parents are offered the study and can choose whether they want to participate.
- 13. **Presumptive positive/borderline** Newborn screening result is outside of the normal range but not at the referral level; a repeat screen or independent testing is required.
- 14. **Primary Care Provider (PCP)** the newborn's pediatrician, neonatologist, or medical provider responsible for the baby's care.
- 15. **Referral** the result of the screen is clearly abnormal, above the referral cut-off, and requires independent testing and/or evaluation with a specialist. Referrals are identified and provided to NBSP follow-up staff by NBSP Laboratory staff.
- 16. **Repeat** an additional newborn screen requested following a borderline, indeterminate or unsuitable screen.
- 17. **Secure File Transfer** an application on the Health Commerce System website that can be used to send files securely between two Health Commerce System users.
- 18. Specialist a medical provider with clinical expertise in the condition the baby screened positive for.
- 19. **Sub-optimal screen** a newborn screen that is poor in quality but still tested, although the quality of the result is unclear. Examples include specimens that are clotted or that exhibit serum rings.
- 20. **Unsuitable specimen** a newborn screen that is so poor in quality that it is untestable. Examples include specimens that lack sufficient quantity to do the testing and specimens that are diluted, contaminated, or discolored.

Glossary of Newborn Screening Abbreviations and Acronyms

- 1. AKA also known as
- 2. **B/B; B/G** baby boy, baby girl
- 3. CAIN06, CAPT10, etc. all codes to describe calls made to the hospital or provider
- 4. CB call back
- 5. DOB date of birth
- 6. DOC date of specimen collection
- 7. DOS date of specimen
- 8. DX diagnosis
- 9. EDT electronic data transfer
- 10. Endo endocrine
- 11. FU or F/U follow-up
- 12. **HOB** hospital of birth
- 13. IMDWCM disease category/hospital specialty care centers
- 14. IRT- immunoreactive trypsinogen
- 15. LAB ID laboratory identification number
- 16. LEIN10, LEPT10, LEIP73, etc. all codes to describe letters mailed to hospitals and providers
- 17. LEPA80, LEPA85, etc. all codes to describe letters mailed to the infant's parents
- 18. LM left message
- 19. LMOVM left message on voicemail
- 20. MCH maternal child health
- 21. MCH 3 blood collection form, also called filter papers or DOH-1514
- 22. NBS newborn screening
- 23. NBSP newborn screening program
- 24. **NICU** neonatal intensive care unit
- 25. NP nurse practitioner
- 26. PA physician's assistant
- 27. PC phone call
- 28. PCP primary care provider
- 29. **PCR** polymerase chain reaction
- 30. Ped pediatrician
- 31. RDE remote demographic entry
- 32. Rec'd received
- 33. REF referral
- 34. RTS return to sender
- 35. S/W spoke with
- 36. SCC specialty care center
- 37. SFT secure file transfer
- 38. SN screen negative
- 39. TFT thyroid function test
- 40. THA2, PP, DOB, REF, etc. all mnemonics to describe test results
- 41. **THY** thyroid
- 42. TOB time of birth
- 43. TOC time of specimen collection
- 44. TPN Total parenteral nutrition
- 45. TSH thyroid stimulating hormone
- 46. UNS unsatisfactory specimen
- 47. VM voice mail
- 48. WAL within acceptable limits; normal newborn screening result

Resources

The following pages include several resources and educational tools that you may find helpful as an NBSC. The forms located on the following pages can also be found on the NBSP website.

NEWBORN SCREENING PROGRAM New York State Department of Health Wadsworth Center, David Axelrod Institute 120 New Scotland Avenue Albany, NY 12208 Phone: (518) 473-7552 Fax: (518) 474-0405

Follow-Up Summary Form

Dear Health Care Provider:

We have not yet received a repeat specimen for this newborn. Documentation of your follow-up activities is required, as specified in section 69-1 of Title 10 of the official compilation of Codes, Rules & Regulations of the State of New York. In lieu of filling out this form, updates may be provided in the Case Demographics module in the Newborn Screening application on the Health Commerce System website. **Please summarize your efforts to obtain a repeat specimen**.

NEWBORN INFORMATION:

| Letters to parent: Dates sent: |
|---|
| Letters to primary care provider: Dates sent: |
| |
| |

We appreciate your efforts to obtain a repeat specimen. Thank you for your cooperation. Sincerely,

Stohu (85

Michele Caggana, SC.D., FACMG Director, Newborn Screening Prog



JAMES V. McDONALD, M.D., M.P.H. Commissioner JOHANNE E. MORNE, M.S. Executive Deputy Commissioner

Request for Newborn Screening Results & Physician Attestation Statement

| Child's Name: |
|---|
| Child's Date of Birth: |
| Child's Hospital of Birth: |
| Child's Sex: Male Female |
| Medical Record Number from the Hospital of Birth: |
| AKA (Aliases): |
| Mother's Name: |
| I, the undersigned physician of the above identified individual, certify that the following are true: |
| A. I am requesting the Newborn Screening results as the physician of record who is providing medical care for this individual. |
| B. I understand that per Part 58-1 of the New York Codes, Rules and Regulations (NYCRR) Title 10, Clinical Laboratories, Section 58-1.8 results are to be used in the conduct of my medical practice or in the fulfillment of my official duties. |
| Signed: |
| Dated: |
| Printed Name: |
| Medical License Number: |
| Address: |
| |
| Phone Number: |
| Fax Number: |

Please fax the completed form to the Newborn Screening Program at (518) 474-0405.

Hospital Self-Evaluation Form for Newborn Screening Protocol

| Hospital: | |
|-----------|-----|
| nospilai. | |
| | · • |

| Evaluation Completed By: | | | | |
|---|----------------|------|--|--|
| | Name and Title | | | |
| Newborn Screening Policy | | | | |
| Does your unit have a written NBS policy? | □ Yes | □ No | | |
| | | | | |

If yes, does it comply with New York State NBS regulations? \Box Yes \Box No

| NYS NBS Policy Review | Addressed/Part of Nursing Protocol | Not Addressed |
|---|------------------------------------|---------------|
| Definition of NBS | | |
| Training of Staff involved with NBS | | |
| Specimen Collection | | |
| Proper collection protocols, how to prep for shipment, etc. | | |
| Specimen Collection Protocol for NICU Babies | | |
| When to collect, how many specimens to collect, protocol | | |
| for transferred babies, etc. | | |
| Parental Refusals | | |
| Parental education, filling out refusal forms, sending | | |
| completed forms to the NBS Program | | |
| Properly Filling out the Blood Collection Form or RDE | | |
| NBS Demographic Correction Procedures | | |
| Collection Log Requirements | | |
| NBS Follow-up | | |
| Documenting results, sending results to PCPs, collecting | | |
| and scheduling repeats, etc. | | |

| NYS NBS Process Review | | | | |
|---|--|--|--|--|
| Do you have a system in place to ensure that every newborn is screened prior to discharge? □ Yes | | | | |
| How often do you check the expiration dates on filter papers? | | | | |
| □ Daily □ Weekly □ Every Weeks □ Monthly □ Every Months □ Yearly | | | | |
| Who is responsible for checking expiration dates? | | | | |
| | | | | |
| How are the filter papers ordered? | | | | |
| Who orders filter papers? | | | | |
| Where are extra filter papers stored? | | | | |
| How do you provide parent education materials? Verbal Discussion NBS Brochure(s) Other: | | | | |
| Do you provide the NBS brochure in the mother's preferred language? \Box Yes \Box No | | | | |
| Are parents advised to ask their baby's PCP for NBS results during their baby's first appointment? □ Yes □ No | | | | |
| Does your facility utilize the NBS Parental Refusal Form? \Box Yes \Box No | | | | |
| Are parents' fears/questions addressed regarding NBS in the event of a refusal? \Box Yes \Box No | | | | |
| Is the demographic information on the blood collection form verified with parents at the time of collection? 🗆 Yes 🗆 No | | | | |
| Are parents advised the importance of having a planned pediatrician? \Box Yes \Box No | | | | |
| Do you have a designated area where blood collection forms are placed to dry? | | | | |
| Are blood collection forms dried horizontally for at least 3 hours? Ves No | | | | |
| Do you have measures in place to minimize the risk for contamination while filter papers are drying? (free of standing | | | | |
| water, away from food and drink, away from direct sunlight, etc.) \Box Yes \Box No | | | | |
| Who checks on the drying status of filter papers? | | | | |

Date: _____

NYS NBS Process Review Cont.

| Do you have measures in place to ensure specimen date and time of collection are documented? \Box Yes \Box No |
|---|
| Who is responsible for checking NBS results in the Secure Remote Viewer (SRV) in the NBS Application on the Health Commerce |
| System (HCS)? |
| Who records NBS results in the baby's medical chart? |
| |

How are NBS results recorded?
Results are scanned into child's chart
Manually entered in child's chart
Other
If other, please specify

Newborn Screening Collection Log Review

| Collection Log Components | Yes | No | Collection Log Components | | No |
|---------------------------------|-----|----|--|--|----|
| Infant's Name | | | LAB ID | | |
| Date of Birth | | | Specimen Collection Date | | |
| Time of Birth | | | Specimen Collection Time | | |
| Medical Record Number | | | Collector Initials | | |
| Attending Physician | | | Specimen Quality Reviewed | | |
| Planned Provider Upon Discharge | | | Demographics on Blood Collection Form Reviewed | | |
| NICU Status | | | NBS Results | | |
| TPN Status | | | Follow-up actions required | | |

| Shipping and Tracking | | | |
|---|--|--|--|
| Do you maintain a courier/transit log? | | | |
| Do you have a process to document when specimens are picked up? \Box Yes \Box No | | | |
| Does your hospital use FedEx or a private courier for specimen shipping? | | | |
| Do you have a process to track all specimens/packages and ensure they are delivered to the NBSP? \Box Yes \Box No | | | |
| What days of the week are specimens picked up at your facility (circle all that apply): S M T W TH F S | | | |
| Location and time for specimen pick-up | | | |
| Who oversees tracking specimens? | | | |
| | | | |

| Training |
|---|
| Do you keep documentation of when staff training takes place? \Box Yes \Box No |
| Is refresher training provided to those who do not follow NBS guidelines? (collect a late specimen, collect an unsatisfactory specimen, |
| incorrectly document demographic data, etc.) Yes No |
| How often are staff trained on NBS policy and process? |

Hospital Compliance

Who is responsible for reviewing monthly hospital report cards?

Who is responsible for acting on the data presented in the hospital report cards? (improving collection times, lowering unsuitable rates and missing demographic information, etc.)

Who is responsible for making sure designee information is up to date in HERDS/HCS?_

NEW YORK STATE NEWBORN SCREENING PROGRAM

New York State Department of Health Hospital Self-Evaluation Form



Last Updated January 2025

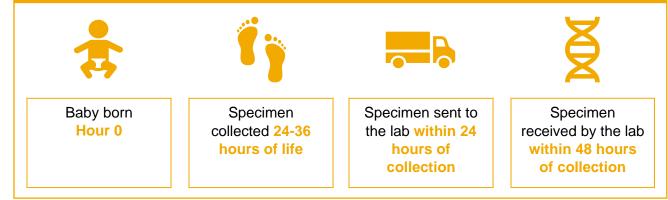
Fact Sheet: Newborn Screening Timeliness

New York State Newborn Screening Program Timeliness for Newborn Screening

The Importance of Timeliness

The timely collecting, shipping, and reporting of screening results according to New York State regulations is extremely important for promoting good health outcomes in newborn babies. When the regulations for timely collection are not followed, it can lead to disastrous delays in diagnostic efforts and treatment by the infant's provider.

From Birth to Lab: Optimal Newborn Screening



The Newborn Screening Program's Goals for Reporting Results

For time-critical conditions, presumptive positive results are reported within 5 days of life.

ALL newborn screening results are reported within 7 days of life.



COLLECTION IN THE NICU

Admission

A specimen should be collected once an infant is admitted to the NICU, regardless of age

48-72 hrs

A second specimen should be collected between 48 and 72 hours of life

28 days

A third specimen should be collected at 28 days of life or discharge, whichever comes first*

*Protocols for infants on TPN/ receiving transfusions can be found linked <u>here</u>

Did you know?

Specimens should be air dried on a flat, nonabsorbent surface away from direct heat and sunlight for at least 3 hours prior to shipping.

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Last Updated January 2025

Fact Sheet: Requests for Repeats

New York State Newborn Screening Program Requests for Repeats



Reasons for a Repeat Request THE PERFECT SPECIMEN SEE REVERSE SIDE FOR INSTRUCTIONS IN 442158015 SATURATE ALL CIRCLES COMPLETE **UNSUITABLE BORDERLINE OR** EARLY DELAYED Suboptimal for testing **COLLECTION SPECIMEN INDETERMINATE** ✓ Is collected from an infant after the Quantity not sufficient Specimen collected A repeat specimen is first 24 hours of life Specimen is received ✓ Has no foreign contaminants on for testing by the lab 14 or more needed to confirm or before 24 hours of life the filter paper determine results days after collection Has all circles completely filled with blood that is applied evenly on one side of the filter paper: free **Hospital Responsibilities Provider Responsibilities** of layering and clots Is dried for at least three hours on \checkmark a flat surface Check each infant's results on the Secure Check the Secure Remote Viewer regularly to For a full guide on collecting the perfect Remote Viewer prior to the infant's first determine when repeat screens are needed. specimen, visit our website appointment. We're Here to Help Notify the infant's parent(s) and provider within 1 Inform the infant's parent(s) of the results. business day of the results becoming available. Are you having trouble reaching a family? Did they miss their appointment for a repeat? Let us Collect the repeat screen if you are able or refer Be prepared to collect the repeat screen. know by phone, follow-up summary the family to the hospital of birth for a repeat. form, or iCMS.

To improve your unsuitable collection rate, visit our website or call the Newborn Screening Program for suggestions.

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Last Updated January 2025

Fact Sheet: CEO Letters

New York State Newborn Screening Program Hospital CEO Letters



t Wadsworth Center

Overview

When a hospital does not successfully obtain a requested repeat specimen **and** does not submit documentation to the NBSP to summarize their follow-up efforts, a CEO letter is issued for the hospital. The purpose of the letter is to inform the CEO of the hospital's failure to comply with current NYS regulations. There are different types of CEO letters, which can be identified by the code on the bottom of the letter. If your hospital receives a CEO letter, promptly submit the required documentation via the Hospital Communication Portal.

Communication is Key

If a hospital updates the NBSP with their efforts to obtain a repeat newborn screen, no CEO letter will be issued, even if a repeat newborn screen is not collected. The hospital can update the Newborn Screening Program through case notes in iCMS, completed follow-up summary forms, or phone calls.

| Types of CEO Letters | | | | |
|-------------------------|---|--|--|---|
| Letter code | LECEOA | LECEOB | LECEOC | LECEOG |
| Letter issued when | The initial specimen was unsuitable for testing. After 90 days no repeat screen was submitted, and no documentation of the hospital's follow-up efforts was received by the Newborn Screening Program. | The initial specimen was collection prior to 24 hours of life. After 90 days no repeat screen was submitted, and no documentation of the hospital's follow-up efforts was received by the Newborn Screening Program. | The initial specimen screening result was outside of the normal range. After 90 days no repeat screen was submitted, and no documentation of the hospital's follow-up efforts was received by the Newborn Screening Program. | The initial specimen was collected late at more than 120 hours of life. After 90 days no completed late collection follow-up form was received by the Newborn Screening Program. |
| Hospital should send | Written policies and procedures related to the collection, storage, tracking and shipping of specimens and documentation of completion of annual training for the employee who collected this specimen. | Written policies and procedures related to the tracking and disposition of test results. | Written policies and procedures related to the tracking and disposition of test results. | Written policies and procedures relates to the collection of specimens and documentation of completion of annual training for the employee who collected this specimen. |
| Response due within | 30 days of letter date | 30 days of letter date | 30 days of letter date | 30 days of letter date |

Types of CEO Letter

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Fact Sheet: Preventing Missing Data

New York State Newborn Screening Program
Preventing Missing Data



Department of Health Wadsworth

The Importance of Complete and Correct Data

The Newborn Screening Program uses the information on each infant's blood collection form to interpret screening results and disseminate those results to the appropriate parties. It is extremely important that each hospital double check every blood collection form for completeness and accuracy prior to shipping, paying extra attention to all required and critical data fields.

Critical Data Fields

Six data fields are considered especially critical to screening results. Failure to accurately or completely fill out one or more of the following fields will result in missing data and will delay the results of the screen until the correct information is provided. This delay has the potential to deny newborns the full benefit of timely screening.

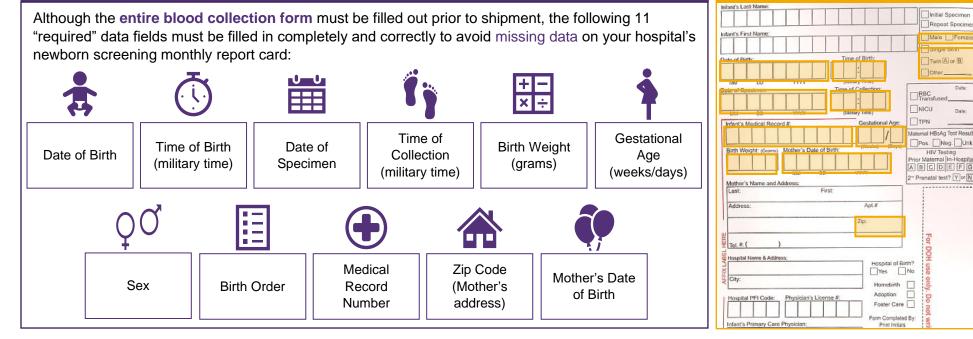
Critical data fields are Date of Birth, Time of Birth, Date of Specimen, Time of Collection, Birth Weight, and Gestational Age.

Electronic Data Transmission (EDT)

Hospitals using electronic data transmission should review all entries prior to submission. Hospitals using HL7 should promptly respond to NACK reports regarding areas of incomplete data transmission.

Required Data Fields

Location of Required Fields



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