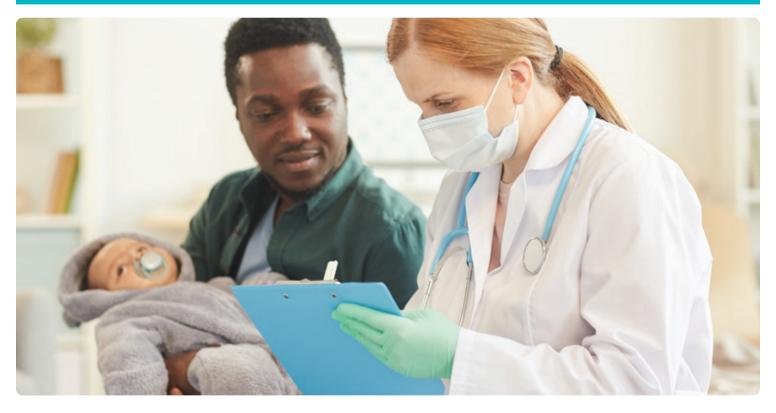
FOOTNOTES



S.C. DHEC NEWBORN SCREENING NEWSLETTER



OUR BEST FOOT FORWARD

Newborn Screening (NBS) Champions Rise During 2020:

The COVID-19 pandemic presented many new challenges to our South Carolina birthing facilities in 2020. However, each facility made the impressive decision to prioritize quality improvement measures for collecting and shipping newborn screening specimens. What did this look like?

DHEC's NBS champion team increased facility communication with nurseries, NICU, Hospital Lab, materials management and hospital quality improvement (QI) staff. This increase in communication allowed the NBS team to:

- Navigate transit challenges
- Provide visual aids and technical assistance for unsatisfactory specimens
- Assist with interpretation and guidance on specific OI data metrics

Hospitals also received individual patient level unsatisfactory and transit information. This information allowed facilities to provide specimen collection training to individual staff and a more thorough individual specimen tracking process. These efforts led hospitals to share NBS best practices, spot check and specimen transit resources and discover that small changes can lead to better outcomes.

Here's a brief overview of a few of those outcomes:

- 36 hospitals enrolled in the new Sunday courier specimen pickup process
- DHEC's NBS Champion team hosted:
 - 66 virtual meetings
 - 27 spot check trainings
 - 61 transit process assistance meetings
- Current unsatisfactory percentage is >5% with continued strides towards improvement
- Transit time has decreased by 14.2% on average since the implementation of STAT courier

If you would like to learn more about implementing NBS champion processes at your birthing facility, please email newbornscreening@dhec.sc.gov.

NBS Program Update:

Please be advised that you may receive faxes and/or calls from **Gianna D'Apolito**, our new Health Information Technology Coordinator. She will be working to close out all newborn screening cases involving infants with an abnormal finding or confirmed diagnosis. Thank you in advance for your assistance in this effort.

Please direct any questions about this matter to Gianna at dapolige@dhec.sc.gov or (803) 898-2902.

ON THE RUN

The SC Public Health Laboratory and NBS section have experienced growth over the past year.

- In January 2021, Dr. Nicolas Epie became the lab director at the Public Health Laboratory.
- Aryel Toup is a Laboratory Technologist III who joined the NBS lab in March 2020.
- Rodger Givens joined the NBS lab as a Laboratory Technologist II in June 2020
- Kimberly Roundtree joined the NBS lab as a Laboratory Technologist II in July 2020.
- Beth Bair was hired in July 2020 as the Chemistry Division Director, overseeing the Chemistry Division including the NBS lab.
- In July 2020, Haley Davis-Martin joined the NBS lab as the Field Training Coordinator for the Sunday courier grant.

LSD Implementation

The NBS laboratory started screening for two Lysosomal Storage Disorders (LSDs) at the Public Health Laboratory on February 22, 2021.

The two LSDs are:

- MPSI (mucopolysaccharidosis type I)
- Pompe

MPSI tests for IDUA (alpha iduronidase) and Pompe tests for GAA (acid alpha glucosidase).

Courier QI Update

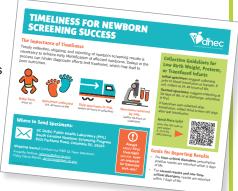
The SC DHEC NBS program has been working closely with the Association of Public Health Laboratories (APHL) on improving NBS specimen turn-around-time (TAT) with our Continuous Quality Improvement (CQI) grant.

The key improvements that have been made through this grant include the implementation of the Sunday/holiday courier service, increased monitoring of FedEx services and increased hospital trainings. The goal of this grant project has been to decrease TAT by 5% for 75% of the hospitals. Currently, 76.3% of birthing hospitals have seen at least a 5% improvement in TAT and, on average, birthing hospitals have seen a 14.5% decrease in TAT.

If you would like to schedule an in-person or virtual training session on specimen collection or specimen transit, receive an emailed copy of the NBS shipping resource, or if you have any questions about the CQI grant project, please email Amanda Jenkins at jenkinaj@dhec.sc.gov.

New NBS Shipping resource

This material was created to help stress the importance of timely collection, shipping and reporting of newborn screening results.



ON THE SPOT

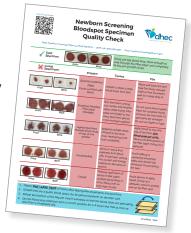
These hospitals had the lowest percentage of unsatisfactory newborn screening specimens for 2020!

- Prisma Health Oconee 0.45%
- Beaufort Memorial Hospital 1.41%
- McLeod Health Clarendon 1.57%
- Prisma Health Greer 1.61%
- Newberry Memorial Hospital 1.69%



Check out our Spot Check resource's new look!

This material was recently updated to make it even easier to perform quality checks on blood spot specimens!



Thank you for being champions for dried blood spot collection in your facilities!

Newborn Screening Diagnosed Cases

To date, the following hospitals collected newborn screens that had confirmed diagnosed cases in 2020:

Amino Acid Disorders

PKU

Charleston Birthplace
East Cooper Medical Center
Grand Strand Medical Center
Labors of Love Birth Center
McLeod Health
MUSC
Spartanburg Medical Center
St. Francis Eastside
Summerville Medical Center

Homcystinuria
 Prisma Health Richland

Acylcarnitine Disorders

- LCHAD AnMed
- MCADD

Aiken Regional Medical Center AnMed Health Lexington Medical Center Prisma Health Patewood Spartanburg Medical Center

CUD
 Prisma Health Greenville

- CPT1A Deficiency MUSC
- Galactosemia
 Prisma Health Baptist
- Congenital Adrenal Hyperplasia Prisma Health Baptist
 Spartanburg Medical Center
- Congenital Hypothyroidism

Aiken Regional Med Center
Bon Secours St. Francis
Conway Medical Center Grand Strand
Lexington Medical Center
Piedmont Medical Center
Prisma Health Greenville
Prisma Health Oconee
Prisma Health Richland
Prisma Health Tuomey

Cystic Fibrosis

Aiken Regional Med Center
AnMed Health
Coastal Carolina
East Cooper Medical Center
Prisma Health Greer
Prisma Health Patewood
Prisma Health Richland
Spartanburg Regional Medical Center

Spartanburg Regional Medical
Hemoglobin disorders
Aiken Regional Med Center
AnMed Health
Beaufort Memorial
Bon Secours St. Francis Xavier
Carolina Pines
Colleton Medical Center
Conway Medical Center
Kershaw Health
Lexington Medical Center

Kershaw Health
Lexington Medical Center
McLeod Health Clarendon
McLeod Health Loris
MUSC Charleston
MUSC Florence
Prisma Health Baptist

Prisma Health Baptist Parkridge Prisma Health Greenville Prisma Health Tuomey

Regional Medical Center Roper St. Francis Mt. Pleasant

Roper St. Francis Berkeley Self Regional

Spartanburg Regional Medical Center St. Francis Eastside

Tidelands Georgetown Tidelands Waccamaw

• SCID McLeod

Prisma Health Baptist

EDUCATIONAL INFORMATION:

Are you educating parents about Newborn Screening?

Visit <u>scdhec.gov/health-professionals/</u>
<u>newborn-screening</u> to find our educational handouts for parents and providers

Are you in need of NBS brochures (ML-000032, Eng. and ML-025096, Spa.)?

Visit <u>scdhec.gov/about-dhec/educational-materials-library-product-order-site.</u>

Are you in need of NBS collection forms?

You can now email PHL-supply@dhec.sc.gov to receive collection forms for your office or facility or call 803-896-0913.

Training Video

The SC DHEC NBS laboratory now has a short 5-minute video to assist with proper collection and handling of the newborn screening forms. You can

NOTE:

The next expiring

he next expiring batch of filter paper expires 12-31-2021

view this video on Youtube via the following link: youtube.com/watch?v=5uGS0Xyh6XQ.

Schedule a Training

To schedule either a virtual or in-person training on specimen collection, packaging, shipping, or receive an emailed copy of the resources listed above, please email Amanda Jenkins at jenkinaj@dhec.sc.gov.

CONTACT US. WE'RE HERE TO HELP!

DHEC Newborn Screening Program:

(803) 898-0767

Self Regional

Summerville Med Center

Newborn Screening Lab:

(803) 896-0891

Keep us on our toes. Please give us feedback on what you would like to see in our next Footnotes Edition. Email newbornscreening@dhec.sc.gov with your suggestions.

