

What We Can Learn From Newborn Screening (NBS) and Family Experiences







VISION

The fear and confusion individuals and families face during the prenatal, neonatal, and early childhood years is replaced by confidence and agency to make the best healthcare decisions for their lives.

Our Newborn Screening/Genetics Portfolio

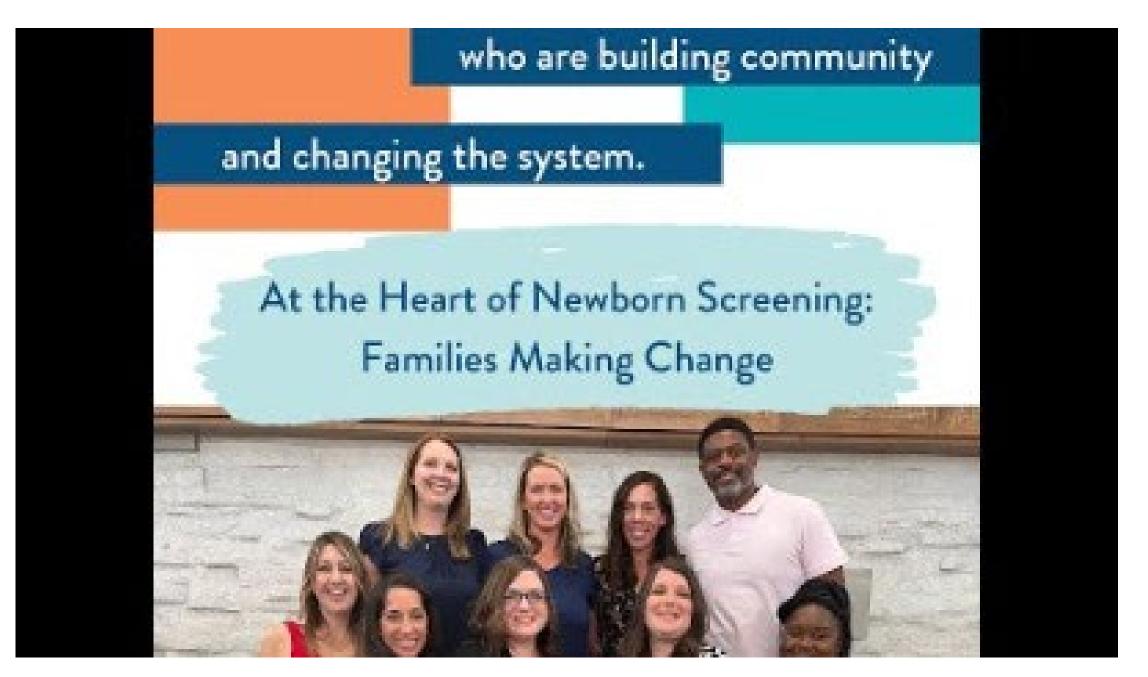


Navigate Newborn Screening

An Expecting Health Program







https://www.youtube.com/watch?v=nniHSCPLO9k&list=PL6M2gEwQoV25pYKKTwN7GnK1cf1kiDL40&index=2



- All babies born in the United States have newborn screening.
- These tests could save a baby's life.
- While most babies are born healthy, some babies are born with serious, but treatable medical conditions.
- Newborn screening helps identify babies who may be at risk of having serious health issues.
- Learning if a baby is at risk for one of these conditions can help prevent more serious medical problems from happening.

Slides Adapted from a module of the Newborn Screening Family Education Program

WHAT IS NEWBORN SCREENING?

Newborn screening is a group of screening tests that help the baby's doctor identify and treat these conditions before they make babies sick.

 While most babies are born healthy, some babies are born with serious, but treatable medical conditions.

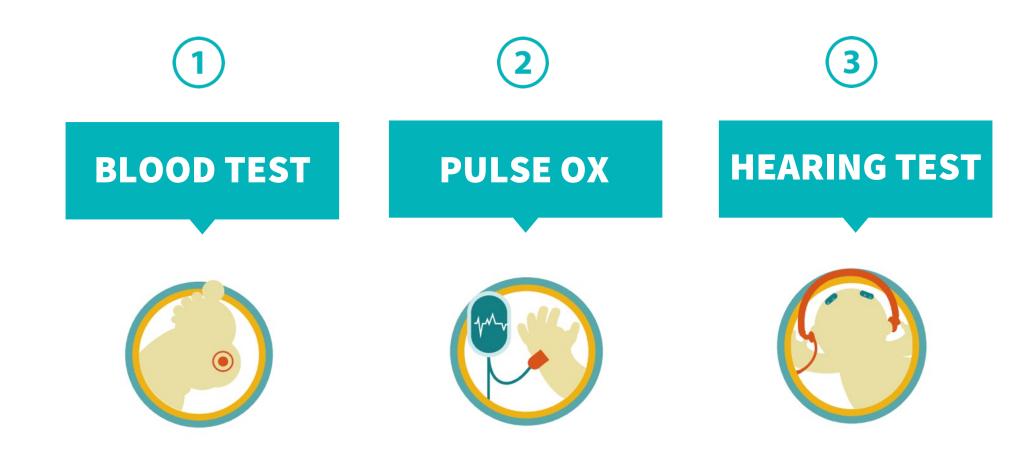


The conditions found through newborn screening can be present in any family, even those without a family history of them.

- Newborn screening is typically done in the first 24-48 hours after the baby is born.
- Newborn screening includes a blood sample from the baby's heel as well as screening of the baby's hearing and heart to look for different conditions that may cause serious health problems.
- Knowing if the baby is at risk can help make sure he or she gets treatment quickly.



WHAT TO EXPECT: THREE PARTS TO NEWBORN SCREENING





WHICH CONDITIONS ARE **INCLUDED IN NEWBORN SCREENING?**

- Every state requires newborn screening. Each state is different and decides which conditions will be included in their screening based on the <u>recommended</u> list provided by the United States Secretary of Health and Human Services (Recommended Uniformed Screening Panel – RUSP).
- Most states screen for at least 31 of the 35 current core conditions recommended by the United States Secretary of Health and Human Services. Some states screen for over 60 conditions.
- Want to know which conditions are included in your state?
 You can learn more at <u>Baby's First Test</u> and the HRSA <u>Newborn Screening Information Center</u>.



WHAT **HAPPENS IF A BABY RECEIVES AN ABNORMAL RESULT?**

(Information we provide to parents)

1. Don't panic, but act quickly.

It is okay to be scared. But it is important to remember that <u>an</u> <u>abnormal, or out-of-range result, does not mean that a baby has a condition</u>. In fact, some babies with abnormal newborn screens have follow-up test results within the normal range.

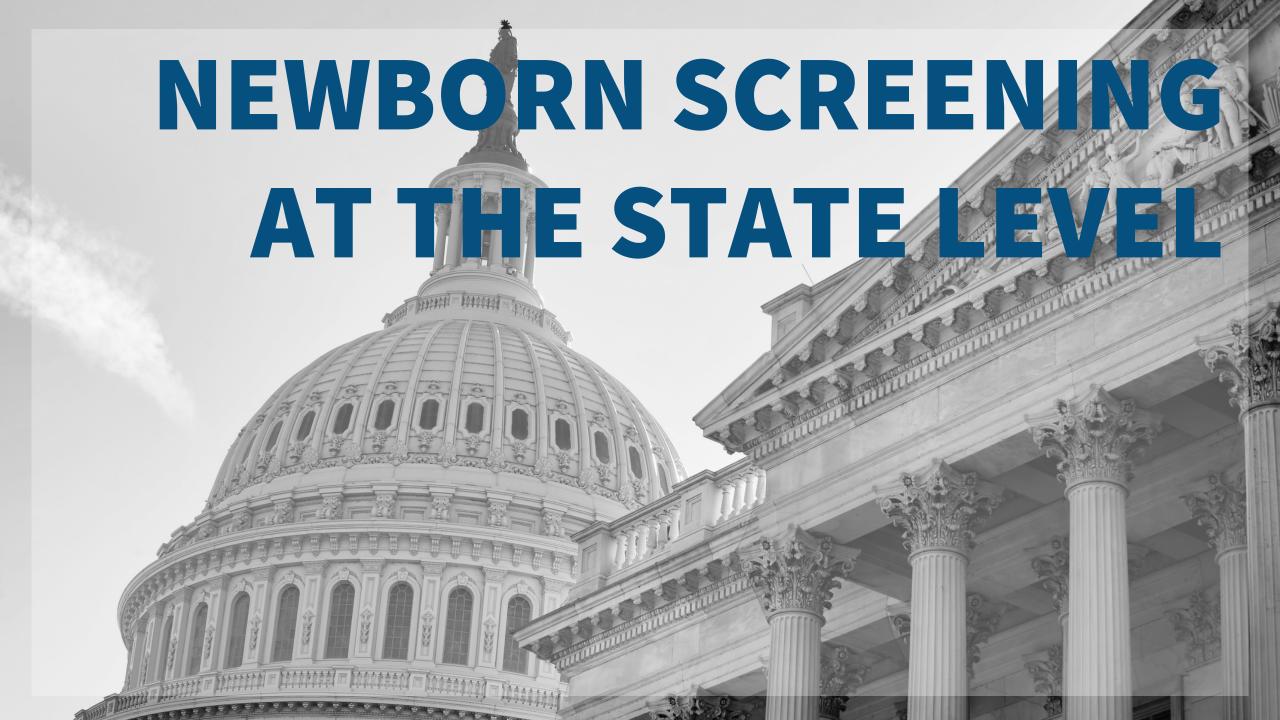
2. Follow up with the baby's doctor.

Don't delay! If a baby has an abnormal, or out-of-range result, it is very important to follow the baby's doctor or state public health program's instructions quickly and carefully.

3. Complete confirmatory testing.

Since newborn screening does not confirm if a baby has a condition, it is very important to complete any additional tests that are recommended. This will help find out if the condition is truly present. Talk to the baby's doctor or state public health program about next steps.





THE ROLE OF STATES IN NEWBORN SCREENING

- All states have a law/laws mandating newborn screening
 - Most states offer options for parents to refuse screening
- Newborn screening programs are organized, governed, and administered by State Public Health Departments within each state's legislative process and regulatory framework
- Fee is often set in statute and is based on cost estimates from programs on financial needs for testing and follow up

Decision-makers:

- State Legislatures
- State Health Officers
- State Boards of Health
- Advisory Committees



WHY IS SCREENING A STATE ISSUE?

- Historical
- Various state priorities
- Population, funding, resources, and definition differences

State and Federal: Working Together

State

Create and manage newborn screening program

Federal

 Support with funding, promoting the development of policies and guidelines, and helping with program improvement and quality assurance



STATE **NEWBORN SCREENING** PROGRAMS/ **BOARDS OF HEALTH**

Day to Day Operational Concerns:

- Educating public/families/healthcare professionals
- Getting specimens (blood spots) to the lab
- Testing methodology
- Reporting abnormal or out-of-range results
- Short term follow-up
- Quality control/assurance
- Deciding what conditions to screen for
- Storage and use of specimens



PROCESS AT THE STATE LEVEL- WHY SO DIFFERENT?

Every state process is different, but these are just a few of the steps and questions that states consider when planning their newborn screening program.

Four Main Steps









TRANSPORT

TESTING

REPORTING

FOLLOW UP

States ensure that blood samples are received in a timely manner and consistently throughout the state.

State Considerations:

- How large is the state?
- Use a hospital's courier systems?
- Pay for delivery?

State Considerations:

- High sensitivity/ specificity
- High efficiency
- First tier vs second tier testing
- Second screen
- Complete screens

State Considerations:

- Who reports results?
- Who receives the results?
- How are results reported?
- What information is provided?

Short Term Follow Up

 States ensure babies with abnormal or out-of-range screens get needed follow up

Long Term Follow Up

- States ensure babies with confirmed diagnoses have access to resources
- States vary in definition

Slides Adapted from a module of the Newborn Screening Family Education Program



CONNECTING WITH THOSE IN YOUR STATE



Slides Adapted from a module by the Newborn Screening Family Education Program

1. Connect with local groups:

- March of Dimes
- State American Academy of Pediatrics (AAP) chapter
- Regional Genetic Services Network
- Support groups/Rare Disease organizations
- 2. Connect with your state's newborn screening program manager/coordinator
 - Visit BabysFirstTest.org or your state's website for more information
- 3. Attend your state's advisory committee meeting
 - Check with your state. These meetings are open to the public.
 Not all states have advisory committees.

Individuals, families, and legislatures make a BIG difference!



What is Baby's First Test?



About Newborn Screening

Your Baby's Screening

Resources

En Español

Living With Health Conditions Professionals

Programs and Policy

Search P

YOUR NEWBORN SCREENING GUIDE TO **Newborn Bloodspot Screening**

What is newborn screening?

While most babies are born healthy, some infants are born with serious but treatable medical conditions. Newborn screening is a public health program that helps healthcare providers identify these conditions before they make a baby sick. Newborn screening usually happens 24 hours after your baby is born and can lead to treatment within the first few days of life.

What is bloodspot screening?

Newborn bloodspot screening (sometimes called the 'heel poke') is one part of the newborn screening process, in which a small amount of your baby's blood is collected from the heel. The blood is placed on special filter paper and sent to a specialized laboratory for testing.

Why is newborn screening important?

Some babies look and act healthy at first, but may have health problems that are causing harm, even before they have symptoms. These conditions can be present in any family, even those without a family history.

Alaska's newborn screening program screens for more than 50 different conditions.

Did You Know?

Every year, 1 in 12 Alaska babies are diagnosed with a newborn screening condition. When treated early, babies identified through newborn screening can grow up healthy with normal development.

If you have concerns about your baby's health, contact your baby's healthcare provider right

For More Information:

Website: http://bit.ly/2JnUUNG



Community of Newborn Experts Collaborating Together









@alaska.gov

rstTest.org



What is

Many parents are unaware of the conditions included in screening, or that it varies from state to state. Baby's First Test brings together resources to help guide parents and health





Celebrate **Newborn Screening** Awareness Month

Share what newborn screening means to you!



What is the public hearing about newborns, genetics, and the future?



Pharma & Life Sciences

Michigan Parents Mostly Prevail in Newborn Blood **Screening Suit**

Sept. 14, 2022, 3:26 PM

- Every state and territory has newborn screening requirements
- Ruling turns on parents' right to direct medical care



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Public Health Perspectives on Genetics



Newborn Screening Is on a Collision Course with Public Health Ethics

by 🔼 Robert J. Currier [□]

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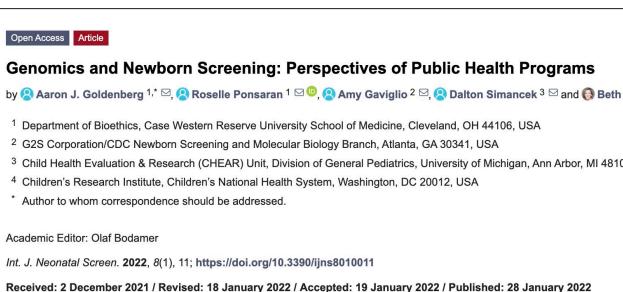
(This article belongs to the Special Issue Ethical and Psychosocial Aspects of Genomics in the Neonatal Period)

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Pain points in parents' interactions with newborn screening systems: a qualitative study

Mike Conway ☑, Truc Thuy Vuong, Kim Hart, Andreas Rohrwasser & Karen Eilbeck ☑

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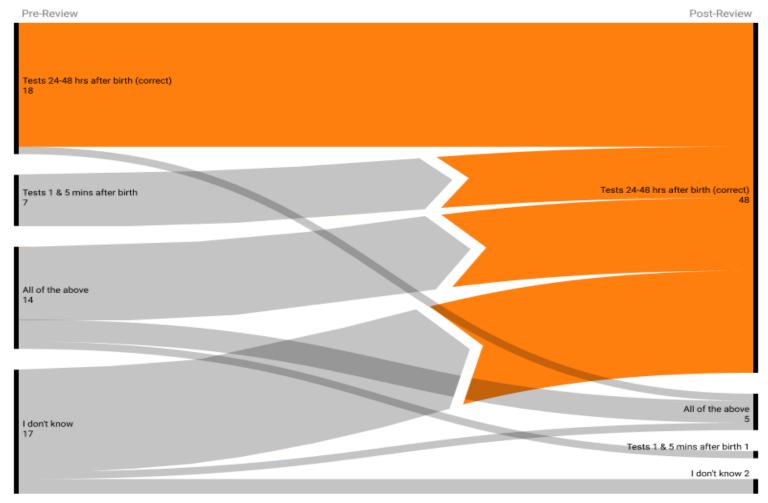
1024 Accesses | 2 Citations | 9 Altmetric | Metrics



Educational Initiatives do work

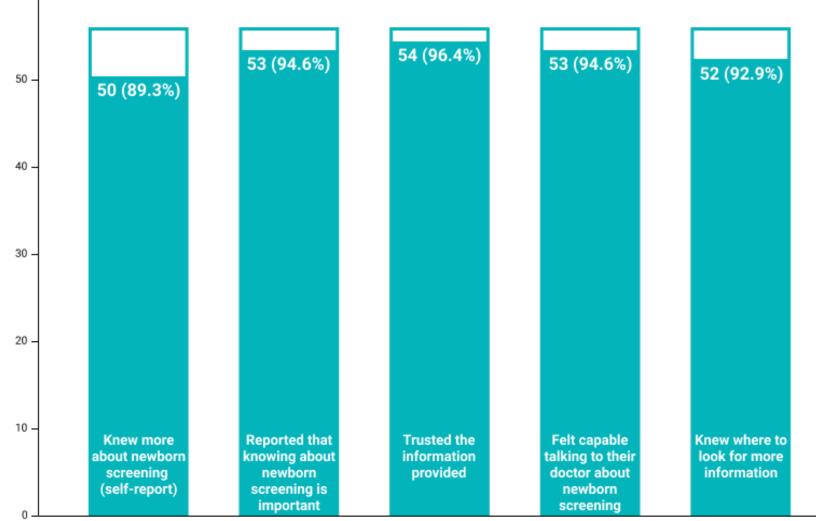
What is newborn screening?

Most participants learned the definition of newborn screening.



Difference between pretest and posttest is statistically significant at p < .001 using a Wilcoxon signed rank test for nonparametric data.

After reading the learning book, participants...



Results reflect participants who agreed or strongly agreed with each statement.



What is on the radar?

- Recommended Uniform Screening Panel (RUSP) Alignment legislation
- Increase privacy/ownership concerns
- Workforce deficits
- Lack of system-wide investments/upgrades



Stay Connected

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