

# Early Hearing Detection and Intervention

- The goal of EHDI is to "maximize linguistic competence and literacy development for children who are deaf or hard-of-hearing"
- Can be accomplished by meeting the goals outlined in the 1-3-6 plan

# Alabama EHDI Mission Statement

• All babies born in Alabama will receive a hearing screen and results tracked to ensure early identification, treatment, and intervention of infants with hearing loss.

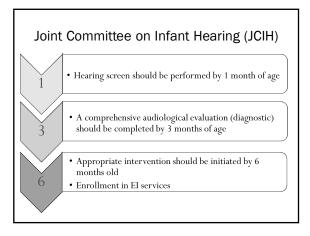
#### Alabama's Listenin

#### History of Newborn Hearing Screening

- 2000 Congress first authorized the EHDI programs
- 2001 Alabama Department of Public Health established Universal Newborn Hearing Screening (UNHS) within the Newborn Screening Program
   Hospitals began voluntary hearing screening
- 2008 UNHS became mandated as part of newborn screening in Alabama

#### Alabama's Newborn Hearing Screening

- Alabama's EHDI Program today
  - 100% grant funded
  - Health Resources and Services Administration (HRSA)
  - $\bullet$  Centers for the Disease Control (CDC) and Prevention
  - Follows established guidelines and best practices
  - JCIH 1-3-6
  - American Speech-Language-Hearing Association (ASHA)
  - Type, Degree, and Configuration of Hearing Loss



# Hearing Screen

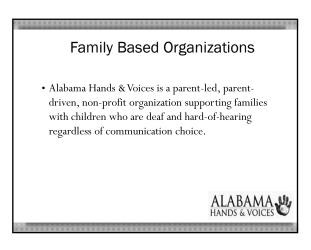
- Every infant should receive a hearing screen prior to hospital discharge
- An infant should receive <u>no more than two</u> inpatient hearing screens
- An infant who does not pass the hospital hearing screen should be referred for another screen before one month of age with an audiologist
- Both ears should be tested each time

#### Alabama EHDI Program

- 100% Automated Auditory Brainstem Response (AABR) screening capability
- 96% of hospitals upload hearing results electronically
- Links directly to newborn blood spot record
- Reduces errors in reporting
- Increases timeliness of follow-up testing and intervention

#### Alabama EHDI Program

- Recent developments within EHDI program
  - Hearing Advisory Work Group
  - Multidisciplinary group convened to create a more efficient and cohesive EHDI system that meets quarterly
  - Learning Communities
    - Currently have 3 areas: Mobile, Birmingham, Huntsville
  - Would like to have more



# Family Based Organizations

 Alabama Institute for Deaf and Blind Limitless Beginnings is a grant funded program to support families of deaf and hard-of-hearing children between the ages of birth and three years old, identified through the newborn hearing screening.

# Children's Rehabilitation Services (CRS)

- CRS is a statewide organization of skilled professionals providing quality medical, rehabilitative, coordination and educational support services for children with special health care needs and their families. Every county in Alabama is served through a network of 14 communitybased offices.
- CRS is also providing family support services through parent consultants.

Alabama Department of REHABILITATION SERVICES

#### National Center for Hearing Assessment and Management (NCHAM)

- Serves as the National Technical Resource Center for the implementation and improvement of comprehensive and effective EHDI systems
- Goal is to ensure that infants and toddlers with hearing loss are identified as early as possible and provided with timely and appropriate audiological, educational, and medical intervention



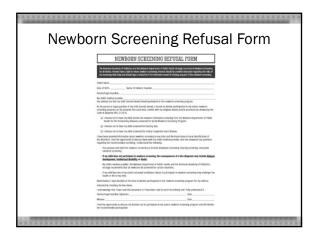
Alabama Institute for Deaf and Blind

#### Early Hearing Detection and Intervention – Pediatric Audiology Links to Services (EHDI-PALS)

- Information, resources, and services for children with hearing loss
- National web-based directory of facilities that offer pediatric audiology services to young children



# Hospital Recommendations Initial hearing screen at 12 to 18 hours of age Maximum of 2 inpatient hearing screens Upload hearing results every day that a hearing screen is done Screen both ears at the same time, each time Schedule outpatient testing prior to discharge, when needed, and notify parents of date, time, and place of appointment "Referral Physician" listed on blood spot form should be the medical provider who will care for infant after discharge Parents who refuse hearing screens should be educated on importance of infant hearing and sign refusal form



# Health Provider Recommendations

- At infant's first visit, review hearing results
- If no hearing results received, call hospital
- If no results are available from the hospital *or* if infant referred on the hospital screen, order a hearing screen AABR with an audiologist within the first month of infant's life
- Report results to the Alabama Newborn Hearing Screening Program

# Audiologist Recommendations

- Complete outpatient hearing screens by 1 month of age
- Schedule diagnostic testing, when needed, by 3 months of age
- Refer infants with hearing loss to EI as soon as possible and by 6 months of age
- Educate families regarding hearing loss diagnosis and importance of EI, when applicable
- Report all screening and diagnostic results via fax using the form provided by the Alabama EHDI Program

# <form>

# Care Coordinator Role

#### Two types of care coordination:

- Medicaid
- Non-Medicaid

# Care Coordinator Role Support Families by: •Transportation • Communication with doctor • Links to insurance programs

- Emotional support
- Resources for other issues identified
- Home visits as needed

#### Care Coordinator Role

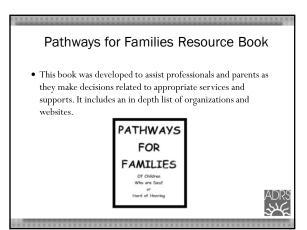
- The Care Coordinator (CC) may follow up with the hospital to verify final hearing screen result
- CC should ensure appropriate testing completed

#### Care Coordinator Role

- CC should educate physician and family, providing needed assistance, to ensure appropriate follow up care is completed
  - Diagnosis Normal hearing or Hearing Loss?
  - Report confirmed diagnosis (type and severity of hearing loss)

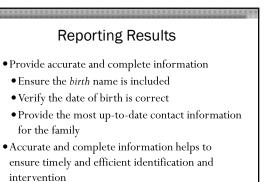
#### Care Coordinator Role

- An infant with confirmed hearing loss, should be referred to EI by 6 months of age or sooner if a diagnosis is made
  - Educate family on EI referral and benefits of enrollment (provide Pathways to Families if needed)
- Provide all contact information to EHDI program for DHR follow up when an infant is placed in foster care



#### Care Coordination Recommendations

- Ensure all scheduled appointments follow JCIH timeline
  - 1 Outpatient hearing screen by one month of age
  - 3 Diagnostic evaluation by 3 months of age
  - 6 Enrollment in EI by 6 months of age

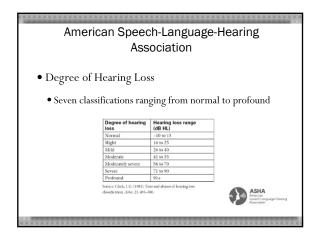


• Follow Care Coordinator's Protocol

# Risk Factors for Hearing Loss

- Family history of permanent childhood hearing loss
- NICU stay of more than 5 days
- Exposure to ototoxic medications or loop diuretics
- Exposure to certain infections, such as cytomegalovirus (CMV) or meningitis
- Craniofacial anomalies
- Head trauma
- Chemotherapy

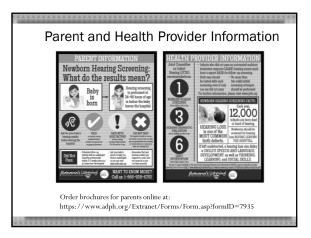


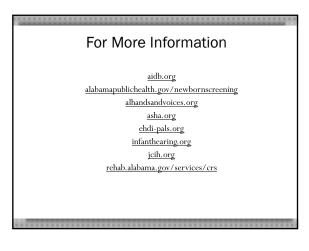




# Alabama EHDI Program Role

- Gather and correlate data
- Manage and coordinate with providers on those who refer initial screen
- Nurse Coordinator works directly with Non-Medicaid and Medicaid Care Coordinators to obtain hearing results
- Educate on JCIH 1-3-6
- Refer all hearing loss infants to EI services
- Manage website to provide families and providers with up to date information





# Contact Information

- Contact the Alabama Newborn Screening Program at 1-866-928-6755
- Mary Ellen Whigham, RN, Alabama EHDI Coordinator, Nurse Supervisor <u>mary.whigham@adph.state.al.us</u>
- Nancy Strong, RN, BSN Alabama EHDI Surveillance Nurse Coordinator nancy.strong@adph.state.al.us

# SUMMER MACIAS

A New Mother's Journey

MARIA KATZ

A Parent's Journey

# NEWBORN HEARING CARE COORDINATION PROTOCOL

Carolyn Miller, LICSW, PIP

# NEWBORN HEARING PROTOCOL

Summary of Revised Protocol:

- Includes new attachments:
  - Newborn Screening Reference manual for Providers, Section 3 — Newborn Hearing Screening
- Letter in Document Library (Letter to Medical Providers)
- Stresses the 1 3 6 guidelines.

# NEWBORN HEARING PROTOCOL

- The role of the new FHS Social Worker dedicated to Newborn Hearing.
- List of determinations for Care Coordinators upon receipt of referral.
- Updated information if parents refuse testing.
- Resources to Parents/Families.
- How to address a delayed newborn hearing test.

#### NEWBORN SCREENING REFERENCE MANUAL FOR PROVIDERS

- Located in Appendix A and mentioned in the Goal of Newborn Hearing Care Coordination
- Flow Chart for Newborn Hearing Screenings based on Joint Committee on Infant Hearing (JCIH) Guidelines
- Guidelines for Pediatric Providers
- CRS and EHDI information

# DEFINITIONS

- Emphasis on the difference between OAE and ABR testing:
  OAE is preferred method of testing for babies at least six
  - months oldABR is the preferred method of testing for all newborns up to six months old, and especially premature infants admitted to the NICU.
  - Child Find phone number is included in the Early Intervention definition to make an EI referral for babies identified with hearing loss.

# FHS SOCIAL WORKER

- Angela Daniel was hired as the FHS Social Work Sr. to provide care coordination services to all non-Medicaid hearing referrals. Responsibilities include:
- Verifying Medicaid on all referrals
- Sending out referrals through CCRS

# FHS SOCIAL WORKER

- Provide care coordination services to non-Medicaid newborn hearing referrals.
- If a home visit is required, the referral may be sent to the District.
- If the newborn receives Medicaid, Angela will send the referral to the appropriate District.
- If a newborn referred to the District loses Medicaid benefits, the District Social Worker will email Angela and transfer the case back to her.

# RECEIPT OF REFERRAL

Upon receipt of referral, the CC should determine:

- Was a subsequent rescreen already performed after the infant did not pass the initial hospital screening?
- What was the method of testing?
- Was the infant admitted to the NICU greater than 5 days?
- Were both ears tested?
- Are there any risk factors known for delayed or late-onset hearing loss?

# **REFUSAL OF TESTING**

- Parents may refuse testing based on religious tenets and practices.
- Notify the Newborn Screening Program if parents refuse testing.
- Newborn Screening Staff will refer them to the baby's doctor for education/counseling on the importance of screening.

# DELAYED HEARING TEST

- Providers sometime delay the hearing test due to middle ear effusion or fluid in the ears (not recommended).
- American Academy of Pediatrics has indicated this should not delay a hearing diagnosis since it has the potential to further compromise hearing.
- Notify the Newborn Screening Program if testing is delayed so that they may send the Best Practice Letter to the baby's doctor. (Appendix C)

# CARE COORDINATION REMINDERS

- Know the difference between the types of newborn hearing screenings (AABR and OAE) and be proactive for the newborn.
- 1 3 6 is our goal! Keep to strict timelines to verify appointments were kept and reschedule quickly.

# CARE COORDINATION REMINDERS

- Don't close cases too soon. Keep cases open until necessary screenings and evaluations are complete, and the newborn is in appropriate treatment.
- For medical providers who will not provide needed information, send them the Standard Letter – HIPAA and Newborn Screening 11/09/2020 found in Document Library under Compliance and Ethics.

# CONTACT INFORMATION

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