

Oklahoma Follow-up



Changing
1-3-6 Months
to
1-3-6 WEEKS

Presenters

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1-3-6 Goals

National*

Oklahoma

Initial Hospital Screen

1 Month

1 Week

Diagnosis of Hearing Loss

3 Months

3 Weeks



Placement in Early Intervention

6 Months

6 Weeks

*Source: (Center for Disease Control and Prevention)



History and Laws

- 1982: Law Risk Registry
- 1983: Implementation
- 1997: Funding Physiologic Screening
- 2000: Law Physiologic + Risk Registry
- 2002: Hearing Screening ALL* OK hospitals!

*birth census of 15 or more

**Source: OSDH, 2006



State of Oklahoma Newborn Infant Hearing Screening Act

§ 63-1-543-545

Effective: November 1, 2000



Responsibility – Initial Screen

Oklahoma State Department of Health

• Oklahoma Birthing Hospitals
310: 540-1-3 Guidelines (a) All newborns in Oklahoma will have a Hearing Screening Procedure completed unless the parent of guardian refuses because of religious or personal objections.



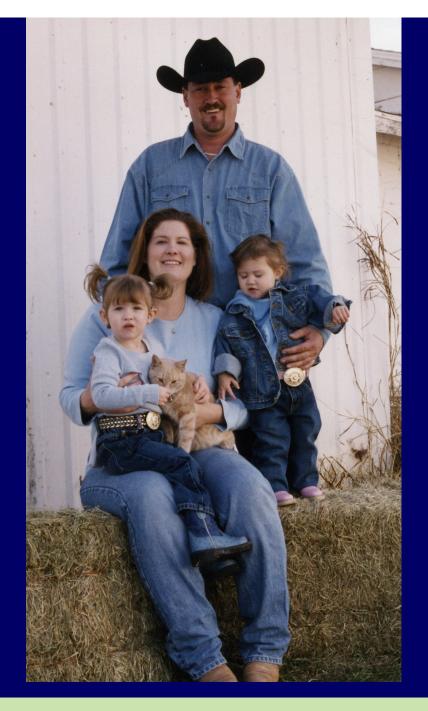
Responsibility – Follow-up Screen

- Oklahoma State Department of Health
- Providers completing follow-up screens
 310: 540-1-3 Guidelines (i) "Audiologists or physicians involved in completing follow-up evaluations will forward test results and recommendations to the Oklahoma State Health Department in a manner and time frame deemed appropriate by the Oklahoma State Department of Health"

Physiologic Screening

- 95.7% screened in US*
- 96.8% screened in Oklahoma**

*Source: NCHAM, 2006 **Source: OSDH, 2009





Newborn Hearing Screening Summary 2005 & 2007

•	Number of infants born in Oklahoma during the calendar year:	2005 51, 775	2007 54,946
•	Number who received physiologic	49,001	53,241
	hearing screening prior to discharge:	(94.6%)	(96.8%)
•	Number of infants not screened at birth:	2,774	1,704
•	Number of infants who referred on		
	screening (one or both ears):	1,398	2,637

Source: Oklahoma State Department of Health, June 2007 and February 2009



Summary (continued)

•	Number of infants who passed but had hearing risk status*:	2005 2,210	2007 2,906
•	Number of infants tracked (refer, not screened, risk status):	6,382	8,226
•	Number of infants with confirmed hearing loss (unilateral & bilateral):	87	108
•	Number enrolled in early intervention:	76	89

^{*}Oklahoma *hearing risk status*: family history of loss; congenital infection; craniofacial anomalies; exchange transfusion; serum bilirubin level ≥ 15 mg/dL; infant placed in Level II or Level III nursery for more than 24 hours



Age of Diagnosis 2007

Number of infants with a 2007 birth date
 with confirmed loss - unilateral & bilateral: 108
 (Includes possible late onset hearing loss)

Average age in months at diagnosis:

< Below 1 month of age:	28	(26%)
1-3 months of age:	20	(19%)
3-6 months of age:	17	(16%)
After 6 months of age:	21	(19%)
Diagnosis Age Not Reported:	22	(20%)



Biggest Obstacles

- Minimal parental concern
- Hospital staff indicate follow-up is not important
- Physicians tell parents to wait on follow-up
- Lack of screenings in rural areas
- Limited pediatric audiologists
- Lost to documentation





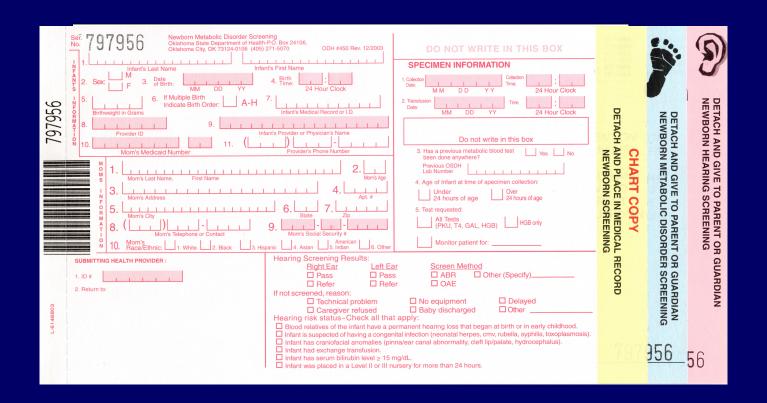
Collaboration with Birthing Hospitals

- Provide hospitals screening equipment (AABR)
- In-services provided for hospital staff
- State law requiring screening and reporting
- List of babies sent to double check if no results were sent or confusing
- Free brochures in Spanish and English
- Hearing Results linked with Metabolic Bloodspot



Hospital Bloodspot Form

Mtabolic Screening Pull-out - (blue

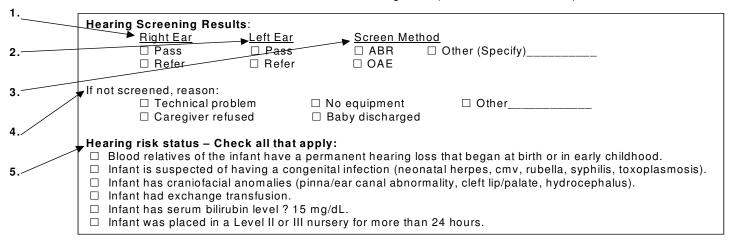




Hearing Results Section

Hearing Screening Results Section

Newborn Metabolic Disorder Screening Form (ODH #450 Rev. 1/2005)



- 1. Right Ear Results
- 2. Left Ear Results
- 3. Screen Method
- 4. If not screened, reason
- 5. Hearing risk status Check all that apply

NHSP Follow-up

- EDHI Follow-up Coordinator
- Initial follow-up letters to Parents and Physicians within 7 days of birth
- Provide Spanish translation as requested
- Second letter and two phone calls provided to Parents at 45 days
- Help families follow-up with providers
- Reminder letters at 5 months for babies who passed but are at risk



Follow-up Screenings

- Free follow-up screens at local county health departments: Nurses, Speech-Pathologists, Audiologists, etc.
- Follow-up AABR and OAE equipment available throughout state
- 5 Health Department Audiologists
- 5 Contract Audiologist (rural areas)
- Private audiologists



Collaboration with Early Intervention/Part C

- Voice Response System
- PHOCIS able to see if child has had appointment and if results available
- Contact providers before closing charts
- Help providers when having difficulties getting families to attend appointments
- Seek results for Follow-up Screenings
- Quarterly Tracking forms



Collaboration with Follow-up Providers

- Contact Health Department providers, private audiologist, doctor's offices, etc.
- Give providers Initial/Follow-up Results
- Statewide Audiology Survey
- In-services through Hearing Aid/FM companies using State Slides
- Hearing Results form available online



Hearing Results form

Hearing Results
Newborn Screening Program
Oklahoma State Department of Health
1000 NE 10th Street
Oklahoma City, OK 73117-1299
405-721-807

Dear Clinician: If the infant's parent/guardian did not bring a similar form that includes the infant's identifying information, use this form to report hearing screening or audiologic diagnostic results to the newborn screening program. Please return the completed form to the address above or FAX it to 405-271-4982.

 Infant's last name:
 Infant's first name:
 DOB:

 Mom's last name:
 Mom's first name:
 Mom's SS#:

 Address:
 City:
 State:
 Zip:
 Birth Facility:

Bloodspot Form Serial Number:

To the clinician evaluating hearing: Complete Box 1 if you are screening hearing; complete Box 2 if you are providing a diagnostic audiologic assessment.

Box 1: Hearing Screening Results
Screening Date:
Results:
Right Ear: pass Refer Left Ear: Pass Refer Screen Method: ABR DOAE other
Intervention: Referred Already Enrolled SoonerStart other
Comments:
Person screening: Title: Phone:

Assessment Date:	Seen previously? - Yes - No If Yes, Date:
Results:	
Right Ear: - Normal - Mild L	oss 🛮 Moderate Loss 🗈 Severe Loss 🖨 Profound Loss 🖨 Inconclusive
Left Ear: - Normal - Mild Lo	ss 🗆 Moderate Loss 🗅 Severe Loss 🗈 Profound Loss 🗖 Inconclusive
Type of loss: 🗆 Sensorineura	□ Conductive □ Mixed □ Undetermined
Assessments used: (Check a	lithat apply) = ABR = Bone ABR = ASSR = TEOAE = DPOAE = BOA = VRA y = other
Intervention: Referred	Already enrolled SoonerStart other
Comments:	
Recommendations:	
Audialogist	Phone

Additional copies available online at

http://www.ok.gov/health/documents/Hrfollow-up.pdf

Collaboration with Other Providers

- Grand Rounds
- Women, Infants and Children (WIC)
- Children First Nurses
- Prenatal Parent Education Packets
- Community Initiatives
- Health Educators Dangerous Decibels

GS

- 1/4/08 DOB at Rural hospital
- 1/5/08 Initial Screen: Bilateral Refer
- 1/18/08 Follow-up Screen: Bilateral Refer
- 2/14/08 Diagnosis: Severe-Prof. SNHL AU
- 2/22/08 EI services
- 3/27/08 Hearing Aids
- 1/14/09 Bilateral Cochlear Implant Surgery





MM

- 7/7/08 DOB at Metro hospital
- 7/8/08 Initial Screen: Bilateral Refer
- 8/4/08 Follow-up Screen: Bilateral Refer
- 8/25/08 Diagnosis: Profound SNHL AU
- 8/25/08 Hearing Aids
- 8/25/08 EI services





CH

- 5/16/08 DOB at Rural hospital
- 5/16/08 Initial Screen: Bilateral Refer
- 5/28/08 Follow-up Screen: Bilateral Refer
- 6/5/08 Diagnosis: Severe-Profound SNHL
- 6/12/08 Hearing Aids
- 6/12/08 EI services



TW

- 10/31/08 DOB at Rural hospital
- 11/1/08 Initial Screen: Bilateral Refer
- 11/12/08 Diagnosis: Mild High Frequency SNHL
- 11/25/08 Hearing Aids
- 11/25/08 EI services



Contact Information

Oklahoma State Dept. of Health Newborn Hearing Screening Program

1000 NE 10th Street

Oklahoma City, OK 73117

Phone: 405-271-6617

Fax: 405-271-4892

Email: Patricia AB@health.ok.gov

