
Early Hearing Detection and Intervention Starts with You!

Newborn Hearing Screening Webinar

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The logo for the Oregon Health Authority. It features the word "Oregon" in a smaller, orange, sans-serif font above the word "Health" in a large, blue, serif font. Below "Health" is the word "Authority" in a smaller, orange, sans-serif font. The entire logo is set against a light blue, curved background.

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Health
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Learning Objectives

- Increase understanding of the hospital role in the overall EHDI system.
- Increase knowledge about EHDI protocols and best practices in hearing screening.
- Increase understanding of importance of timely and accurate data reporting.
- Learn about opportunities to monitor hospital performance for continuous quality improvement.
- Provide feedback for improving the system.

Why EHDI?

Before universal newborn hearing screening, children with severe-to-profound hearing loss on average completed high school with 3rd - 4th grade reading and language levels.



How common is hearing loss, really?

- **3/1000** children born with some degree of permanent hearing loss (NCHAM Book)
- Another **3/1000** acquired between birth and kindergarten (NCHAM Book)
- NICU babies are at **highest risk** of having neural hearing loss (JCIH, 2007)
- If undetected, can adversely affect speech, language development, academic achievement, social-emotional development

The TEAM

- Birth hospitals, mandated and non-mandated
- Medical home providers
- Midwives
- Audiologists
- Otolaryngologists
- Speech-Language pathologists
- Therapists
- Educators
- Early Intervention professionals
- Care coordinators
- Family
- State EHDI program staff



EHDI Program Activities

Guide By
Your Side

Free
screening
equipment /
clinics

Loss to
follow-up
letters

Hearing aid
loaners

Parent
education
materials

Reporting
forms,
protocols

Screening
registry /
tracking
system

Special
projects

Early
Intervention
referrals
and tracking

Referral
coordination

Monitor
reporting
data

Data system
development

Partnership
development

Evaluation

Annual
report

Fielding
public calls

Policy
development

Training and
technical
assistance

Requests
for
information

Data
analysis

National Milestones (1-3-6)

ONE - All infants should be screened for hearing loss no later than 1 month of age;

THREE - Those who refer should have a comprehensive audiological evaluation no later than 3 months of age;

SIX - Infants with confirmed hearing loss should receive appropriate intervention no later than 6 months of age.

We are in this EHDI mission together!
We could NOT do it without you.



BLD012493 [RF] © www.visualphotos.com

Our Shared Mandate (>200 births)

- Provide newborn hearing screening test within one month of DOB for each child (if possible, prior to discharge)
- Notify parent/guardian and HCP of results within 10 days, provide diagnostic center info
- Provide screening results to EHDI within 10 days
- Arrange screening if child is discharged before screening is completed or occurs
- Discharge (to home) hospital is responsible for screen (if not performed before transfer)

Oregon Administrative Rules 333-020-0125 thru 0165 (ORS 433.321-323)

Our Shared Mandate (<200 births)

- Provide parent/guardian appropriate information provided by the Oregon Health Authority concerning the importance of screening

Quality Indicators

- Percent of newborn screening results reported to OHA within 10 days
- Percent of newborn infants who complete screening ever (>98%)
- Percent of newborn infants who complete screening by 1 month of age (>95%)
- Percent of newborn infants who fail initial screening and fail subsequent rescreening (<4%)

Recommended Policies and Procedures (NCHAM)

- Script the message to parents
- Monthly baby-by-baby reconciliation of EHDI data
- Coordinate services and follow-up for infants who need further evaluation
- Assure 365 days of coverage
- Provide informational support to families
- Risk indicators and referral support
- Obtain second point of contact for family
- Verify the PCP or clinic before family leaves hospital

Risk Indicators

May help identify:

- Infants who pass newborn screen but have mild permanent hearing loss
- At-risk for developing delayed onset or progressive hearing loss

What to do?

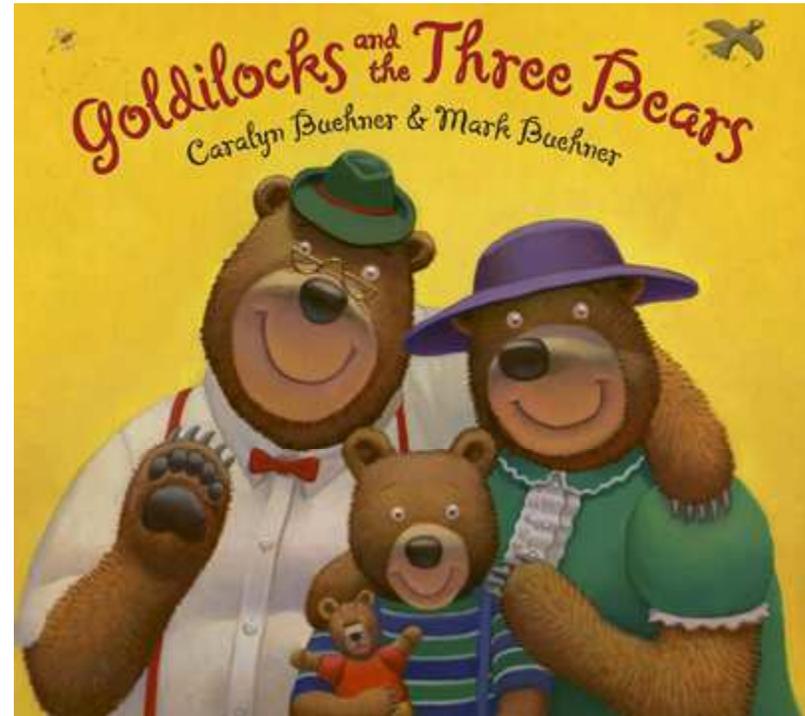
- Document and send to medical home
- Provide diagnostic list to families for ongoing surveillance of child's hearing

See JCIH 2007 Position Statement, page 921 for complete list of risk indicators

The EHDI Protocol

- Equipment: AABR or OAE
- Conditions that interfere with screening?
- No more than 2 screens per ear!
- Age of first screen: >4-8 hrs, close to discharge / >34 wks + 5 days NICU
- Time between screens: OAE(>6hrs); AABR(>4hrs)
- AABR for NICU screens
- Rescreen both ears, even if only one referred
- Report FINAL screen results!

Screening “Just Right”



Data Reporting

Timely – within 10 days

Complete – both ears reported, using FINAL results

Correct – FINAL results if second screen required

Why is timely, correct and complete reporting important?

- Without tracking, reporting and follow-up, screening is meaningless!
- Results (or lack of) causes cascade of follow-up with families, and in the future, with health care providers
- Prevents unnecessary stress for families
- Prevents confusion for families
- Program effort to monitor, follow-up with hospitals

Timely and complete data make us ALL look good!

“No” Data Trial:

- Requested missing data from 48 hospitals for 2,065 infant records covering 18-month period
- 40 hospitals provided all requested data, 1 provided some
- Received 80% of requested data back

The result?

- Increased state screening average from 93% to 96%!



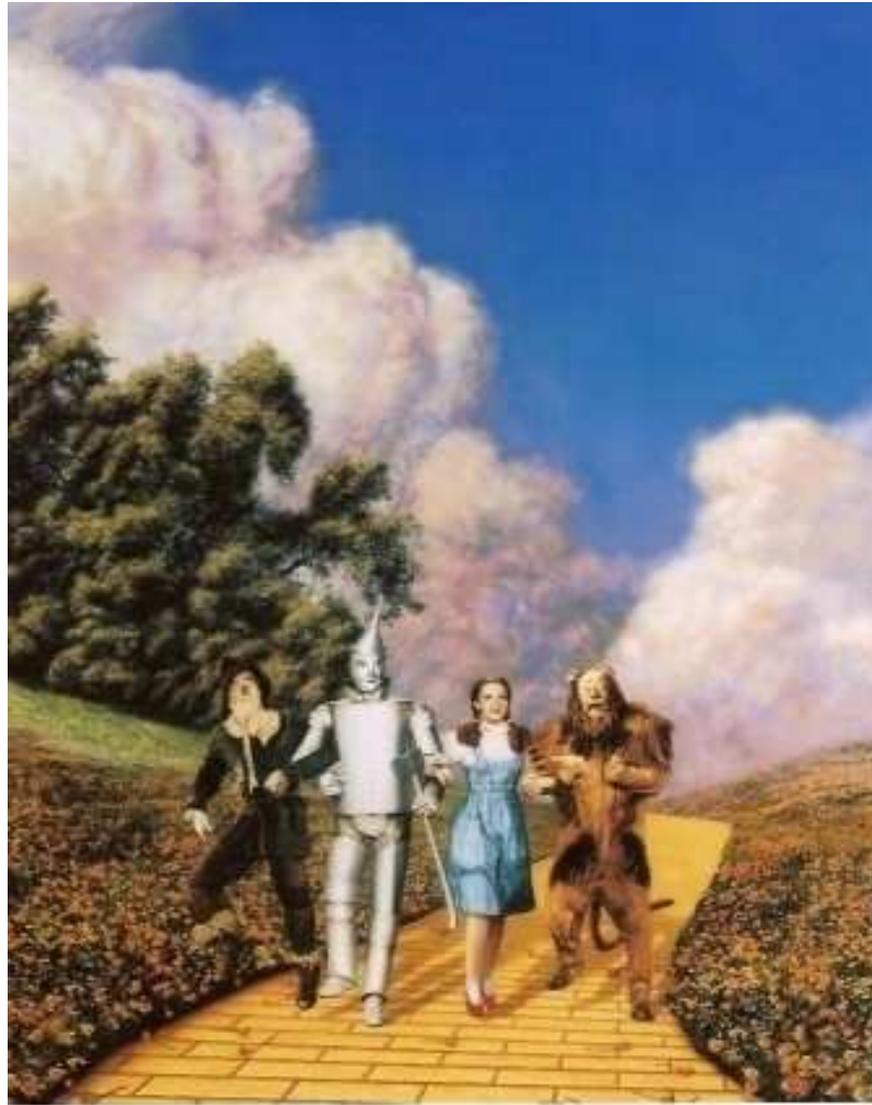
Timely,
Correct and
Complete
Reporting:
What works?

BUT, your role is so much more. . .

- Hospital screening staff set the groundwork and tone for next steps for family
- Provide education and informational support about hearing screening process, results and importance of diagnostic follow-up
- Reporting helps EHDI assure that family stays on track through 1-3-6 milestones

The Message to Families

- Inspire confidence in the process
- Reiterate the importance of process
- State recommends a hearing screening because it is best for the child
- Don't minimize refer results
- Provide clear results, both verbal and written



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Reducing loss to diagnostic follow-up

The issue:

- Only 45% (2011) of children referred at screening receive timely diagnostic evaluation
- There are many barriers to obtaining diagnostic evaluation

What to do?

- Provide family with list of diagnostic centers
- Help assure family understands the importance of pursuing diagnostic evaluation
- Timely reporting so EHDI can take action

EHDI's Strategies to Reduce Loss to Follow-up

- Letters to families, including facility lists
- Parent education through phone follow-up, GBYS, and public health nurse referrals
- Education and technical assistance for screening partners, audiologists, etc.
- Online reporting system for non-hospital screening and diagnostic facilities
- Partnering for more screening and diagnostic facilities
- Use of OVERS to track ALL births, including OOH and non-mandated hospitals



Preventing
Diagnostic
Loss to
Follow-Up:
What
works?



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EHDI Reports

- Access reports through Citrix/BOXI.
 - HiTrack Reports
 - OVERS Reports

<https://dhs.oregon.gov/vpn/index.html>

Oregon Department of Human Services

Remote Access Portal

By clicking the **Log On** button, you state that you are authorized to access this system. Use of Oregon Department of Human Services systems are monitored and logged. Individuals using this computer system without authority or in excess of their authority are subject to being prosecuted under ORS 164.377, Title 18 USC 2511 and/or any other applicable state or federal law.

Call the DHS Service Desk at (503) 945-5623 for additional assistance.



User name:

Password:

Log On

Applications

Main



Applications

Main > Websites



- Enter your user name and password.
- Click on Websites.
- Click on BOXI.

Business Objects
an SAP company

Log On to InfoView [Help](#)

Enter your user information and click Log On.
(If you are unsure of your account information, contact your system administrator.)

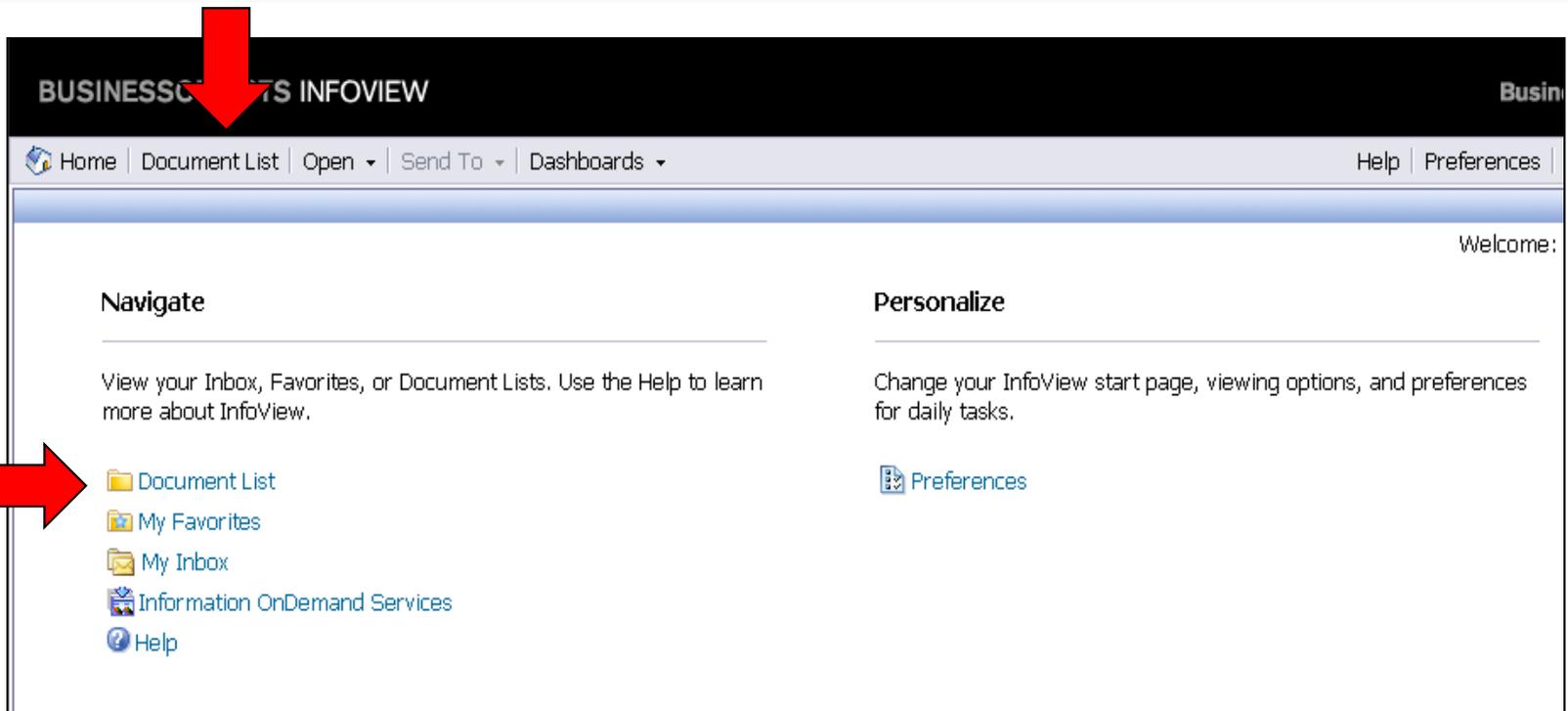
User Name:

Password:

Authentication:

Log On

- Login with the same user name and password.



- Click on 'Document List'.

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Home | Document List | Open | Send To | Dashboards | Help | Preferences

New | Add | Organize | Actions | Search title

All

- My Favorites
- Inbox
- Public Folders
 - Alexsys
 - FamilyNet
 - EHDI
 - Adventist Medical Cer
 - Ashland Community H
 - Bay Area Hospital
 - Blue Mountain Hospit
 - Columbia Memorial H
 - Good Samaritan Regi
 - Good Shepherd Medic
 - Grande Ronde Hospit

Title	Last Run	Type	Owner
HiTrack Flow Chart Report		Crystal Report	OR0008812
HiTrack Individual Hospital Summary Report		Crystal Report	OR0008812
HiTrack Need Outpatient Screening Report		Crystal Report	OR0008812
HiTrack Risk Indicator Report		Crystal Report	OR0008812
OVERS Hospital Summary Report V8.2		Crystal Report	OR0008812

- Drill down until you see your hospital's folder
- Select the report you wish to generate.

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Home | Document List | Open ▾ | Send To ▾ | Dashboards ▾ Help | Preferences

View - OVERS Hospital Summary Report V8.2

Enter prompt values.

Enter Birth Date: Birth Date/Birth Date(OVERS Hospital Summary Re

Please enter Date in format "mm/dd/yyyy".

Start of Range: _____ Enter a Value: <input type="text"/> <input checked="" type="checkbox"/> Include this value <input type="checkbox"/> No lower value	End of Range: _____ Enter a Value: <input type="text"/> <input checked="" type="checkbox"/> Include this value <input type="checkbox"/> No upper value
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- Enter the date range (Date of Birth).
- Click on 'Ok'.

OVERS Hospital Summary Report

OVERS Hospital Summary Report

Birth Date From: 9/1/2011 To: 9/30/2011

Birth Facility: [REDACTED]

Case ID	Medical ID	Name	DOB	Mothers Last Name	Screen ID	Test Date	Screen Performed	Right	Left
Missed		Total Clients:	2						
		[REDACTED]			13036	9/10/10	Missed		
		[REDACTED]			17083	9/24/10	Missed	Pass	Pass
Passed		Total Clients:	586						
		[REDACTED]			3978	7/3/10	Inpatient	Pass	Pass
		[REDACTED]			3979	7/3/10	Inpatient	Pass	Pass
Refer		Total Clients:	9						
		[REDACTED]			29682	1/25/11	Inpatient	Refer	Refer
		[REDACTED]			6615	7/23/10	Inpatient	Refer	Pass
		[REDACTED]			22178	11/15/10	Outpatient	Refer	
Refused		Total Clients:	1						
		[REDACTED]			5131		Refused		
Transfer		Total Clients:	1						
		[REDACTED]			27181		Transfer		
No Info.		Total Clients:	5						
		[REDACTED]							

OVERS Hospital Summary Report Continued...

Summary

Total Clients:	604		
Total Screened:	595	Total Not Screened:	9
Pass:	586	Transferred:	1
Refer:	9	No Info.:	5
		Missed:	2
		Refused:	1
		Unable to Test:	0

Quality Indicators

- Percent of newborn screening results reported to OHA within 10 days
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OVERS Hospital Summary Report Screened by 1 month

Benchmarks:

- 95% JCIH 2007
- 98% CDC
- 100% State by 2015 (excluding NICU)

Summary - Goals Met					
		Total Clients:	604		
Total Screened:	595	99%	Total Not Screened:	9	1%
Pass:	586	98%	Transferred:	1	11%
Refer:	9	2%	No Info.:	5	56%
Screened by 1M:	567	95%	Missed:	2	22%
			Refused:	1	11%
			Unable to Test:	0	0%

Coming Soon...

Equipment Type

The screenshot shows a software window titled "Hearing Screenings". At the top, it states: "Currently there are no Hearing Screenings entered. Press 'New Screening' to enter a screening." Below this is a "New Screening" button. A "Hearing Screening" tab is active, revealing a form with the following fields:

- Was Hearing Test Performed:** A dropdown menu currently set to "Inpatient".
- Test Date:** A text input field with a calendar icon to its right.
- Test Results:** Two rows of data entry:
 - Left Ear:** A dropdown menu.
 - Right Ear:** A dropdown menu.
 - Left Equipment Type:** A dropdown menu.
 - Right Equipment Type:** A dropdown menu.

On the right side of the form, there are three buttons: "Save", "Clear", and "Cancel".

Who to contact

- **OVERS:** Reset password or request for a new user account. 971-673-0279
- **EHDI:** Questions regarding newborn hearing screening, call Julie Hass at 888-917-4327 or 971-673-0264



THANK YOU!

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DISCUSSION QUESTIONS:

- 1. How does your team/program ensure that every baby has been screened?**
- 2. How does your team/program ensure that 2nd screening results are entered into OVERS for all babies?**
- 3. How does your team/program handle infants who do not pass their screening or are missed?**
- 4. How does your team/program ensure that you're meeting the national benchmarks?**