Standardized Site Visits: Collaborating with Hospitals, Audiologists and/or Family Support

NOTE: This session is designed to be a working session for State/Territory EHDI Coordinators (Principal Investigators on CDC and HRSA EHDI State Awards) and their designees.

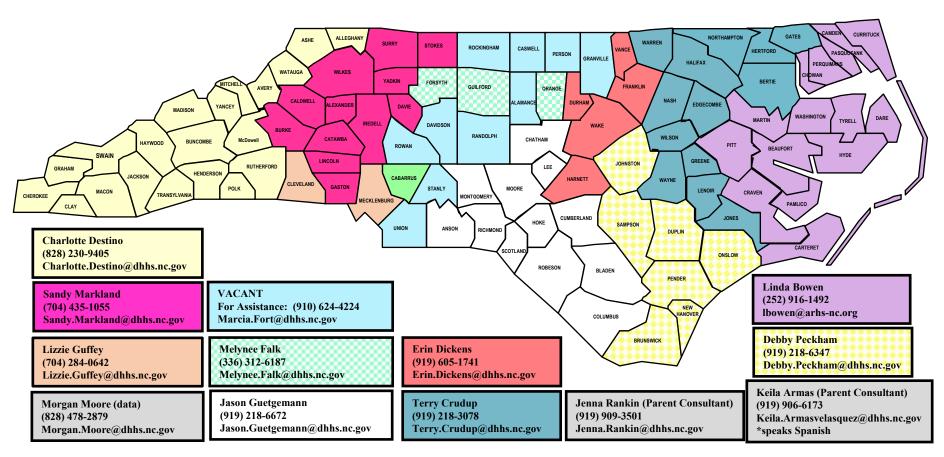
Due to the working session design, space is limited to EHDI Coordinators and their designees.

North Carolina

- Team of 10 Regional Consultants (Audiologists and Speech-Language Pathologists)
- Two Parent Consultants
- HRSA Project Coordinator
- Data Manager
- EHDI Program Coordinator/Genetics and Newborn Screening Unit Manager



North Carolina Early Hearing Detection and Intervention Regional Contacts



^{*}Orange County served by Erin Dickens and Melynee Falk

^{*}Wake County served by Erin Dickens, Terry Crudup and Jason Guetgemann

Hospital Compliance Guide and Annual Review



Universal Newborn Hearing
Screening (UNHS) Birthing Facility
Compliance Guide Manual

North Carolina's Early Hearing Detection and Intervention (EHDI) Program

The EHDI Program cares about the hearing of newborn babies. EHDI <u>provides assistance</u> and education to hospitals, medical providers, and others. It supports families by connecting them to resources and helping them to receive the care their baby needs.

The NC EHDI Program is located in the North Carolina Department of Health and Human

UNHS Hospital Compliance Guide Implementation Plan

Chapter X: NC EHDI Universal Newborn Hearing Screening (UNHS)

Birthing Facility Compliance Guide

Implementation Plan

1. Background

NC EHDI developed the following UNHS Birthing Facility Compliance Guide (Manual, Profile, Score Sheet) and Discussion Points implementation plan in an effort to support a comprehensive and effective statewide mechanism to screen all newborns for hearing acuity, to provide prompt audiological follow-up testing for those infants who do not pass the newborn screen, and to provide timely and appropriate early intervention services for those infants who are diagnosed with hearing loss. The UNHS Birthing Facility Compliance Guide serves as a manual for birthing facilities and pediatric healthcare providers in the development and implementation of their respective UNHS Program. These guidelines are not intended to supersede individual birthing facility policies or the independent clinical assessment and judgment of physicians and medical providers in any individual case.

2. Roles and Responsibilities

EHDI Regional Consultants are responsible for arranging an annual UNHS Program Review with each of the birthing facilities in their assigned regions. During the annual birthing Facility Program Review, the UNHS Birthing Facility Compliance Guide Manual will be reviewed, and the Profile, Score Sheet, and Discussion Points will be completed. The invitation to participate in the annual Program Review will be sent to the birthing facility staff with sufficient time for preparation and scheduling the meeting. Annual Birthing Facility Program Reviews can be done in-person or virtually, depending on the situation.

UNHS Birthing Facility Compliance Guide Discussion Points

FOR CONSULTANT USE ONLY

Before each program review, consider the following when preparing for the meeting.

How is the birthing facility doing:

- 1. Entering baby's full name before discharge?
- 2. Entering the correct Primary Care Provider?
- 3. Scheduling follow-up appointments prior to discharge for infants that failed the initial screen?
- 4. Using the appointment tab?
- 5. Entering CCHD results?
- 6. Moving babies off the hospital queue? What is keeping babies on the hospital queue?
- 7. Entering the correct screening designation?

Communication with EHDI Consultant

- 8. Responding to requests from their EHDI consultant?
- Reaching out to their EHDI consultant when there are NBHS related issues (new staff, password issues, brochures needed, scheduling issues...)?
- Reaching out to their EHDI consultant when equipment is inoperable/needs repair (Loaner



2023 UNHS Birthing Facility Profile	
Birthing Facility:	
Compliance Guide Completion Date:	
Compliance Guide Meeting Participants:	
Nursery Phone Number(s):	
Nursery Fax Number:	EHDI Coordinator:
NICU Phone Number(s):	Name(s):
NICU Fax Number:	Email:
Designated Contacts:	Phone:
Quarterly/Annual Reports	
Current:	Metabolic Coordinator:
	Name(s):
	Email:
	Phone:
Additions:	
	CCHD Coordinator:
	Name(s):
Deletions:	Email:
	Phone:
	Additional Notes:



Sect	tion B.	Inpatie	ent Scr
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2023 Birthing Facility Compliance Guide

Hear	ing Screening:
ссн	D:
Meta	bolic Screening:
Sec	tion C. Outpatient Screen/Rescreen
1. Do	es this birthing facility complete:
a. O	utpatient screen/rescreens for babies born at this facility?
\circ	Yes
\bigcirc	No
()	
O If No	No Please explain:
	Please explain:
b. In	Please explain: itial screens for babies born (check all that apply) At home At another facility Out of state
b. In	Please explain: Itial screens for babies born (check all that apply) At home At another facility Out of state None of the above
b. In	Please explain: itial screens for babies born (check all that apply) At home At another facility Out of state None of the above screens for babies born (check all that apply)
b. In	Please explain: itial screens for babies born (check all that apply) At home At another facility Out of state None of the above screens for babies born (check all that apply) At home

1/1/23

2023 UNHS Birthing Facility Compliance Guide Score Sheet Summary

	Standard	Point Value	Score
1	NHS Policies & Procedures	6.0	0.0
2	Screening Equipment	3.0	0.0
3	Outpatient Rescreen Referral/Scheduling Process	5.0	0.0
4	Parental Education	3.0	0.0
5	Staff Training	4.0	0.0
6	Site/Equipment Inspection	2.0	0.0
7	Communication and Reporting	4.0	0.0
8	Data Submission (via Hearing Link)	8.0	0.0
9	Benchmarks and Quality Indicators	15.0	0.0
	TOTAL	50.0	0.0

Birthing Facility Rating

Description	Point Range	Score
Greatly Exceeds Expectations	46-50	
Exceeds Expectations	40-45	
Meets Expectations	36-39	0.0
Below Expectations	30-35	
Needs Significant Improvement	0-29	

23 Birthing Facility Compliance Guide 1/1/23

Strengths:	
Recommendations for Improvement:	
23 Birthing Facility Compliance Guide	1/1/23

If total score is less than 36 points, an Interim (6 Program Review needs to be scheduled:	monti	1)
Proposed Date:		
Other Comments:		
Signatures:		
Manager, NC DCFW Genetics and Newborn Scree	ening	Date
NC EHDI Consultant		Date
Birthing Facility Representative		Date

1/1/23

2023 Birthing Facility Compliance Guide



Thank you!

For copies or more information contact:

<u>Marcia.Fort@dhhs.nc.gov</u>

or

Jude.Williams@dhhs.nc.gov





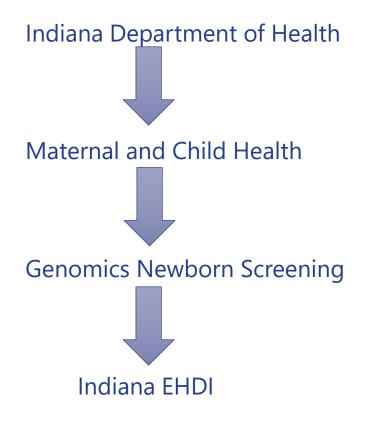
EARLY HEARING DETECTION AND INTERVENTION PROGRAM (EHDI) UPDATE

ISHA CONVENTION 2021

Suzanne Foley, AuD., CCC-A Director, EHDI <u>sfoley@isdh.in.gov</u>

EHDI System and Administration





EHDI Staff

Director-**Dr. Suzanne Foley**Follow-Up Coordinator-**Stacy Allgeier**2 EHDI Parent Consultants-**Julie Swaim, Lisa Wolfe**6 regional consultants (audiologists)
Guide By Your Side Director- **Mariana Barquet**10 GBYS parent guides
Support staff
Astra Program-Educational Advocacy



EHDI System and Administration



Indiana Department of Health
Maternal and Child Health
Genomics Newborn Screening

Indiana EHDI Staff

- Director-Dr. Suzanne Foley
- 2 EHDI Parent Consultants-Julie Swaim, Lisa Wolfe
- Follow up Coordinator
- 4 Regional Audiology Consultants and Lead Consultant
- 10 Guide By Your Side and 5 ASTra guides for parent to parent support



Hospital contacts

- > Regional audiologists visit once a year (template)
- Monitor hospital stats quarterly (used to be annual)
- Monthly emails to reporters
- > Train every new reporter -regional audiologist
- > Developed IN training on newborn hearing screening procedures (ncham)
- > Loaner hearing screening equipment -annual review



Hospital statistic review

			_		9		•	,	IX.
REPORT MONTH	REPORTING ORG	ON TIME SUBMISSION	TOTAL BIRTHS	l	SCREENING RATE	TOTAL PASSED	TOTAL PASSED WITH RISK FACTORS	TOTAL NOT PASSED	REFER RATE
1	Regional Health	No	29.00	25.00	86.21%	24.00	0.00	1.00	4%
3		No	31.00	31.00	100.00%	31.00	0.00	0.00	0%
4		Yes	25.00	25.00	100.00%	24.00	0.00	1.00	4%
5		No	40.00	37.00	92.50%	36.00	0.00	1.00	3%
6		No	37.00	32.00	86.49%	27.00	0.00	5.00	16%
7		Yes	34.00	33.00	97.06%	31.00	0.00	2.00	6%
1	Memorial	Yes	6.00	6.00	100.00%	6.00	0.00	0.00	0%
2		Yes	9.00	5.00	55.56%	5.00	0.00	0.00	0%
3		Yes	7.00	6.00	85.71%	6.00	0.00	0.00	0%
4		Yes	10.00	9.00	90.00%	9.00	0.00	0.00	0%
5		Yes	11.00	11.00	100.00%	11.00	0.00	0.00	0%
6		No	14.00	14.00	100.00%	12.00	0.00	2.00	14%
7		Yes	12.00	11.00	91.67%	10.00	0.00	1.00	9%
	MONTH 1 3 4 5 6 7 1 2 3 4 5 6	## REPORTING ORG 1	MONTH REPORTING ORG SUBMISSION 1 Regional Health No 3 No Yes 5 No No 6 No Yes 1 Memorial Yes 2 Yes Yes 4 Yes 5 Yes 6 No	MONTH REPORTING ORG SUBMISSION BIRTHS 1 Regional Health No 29.00 3 No 31.00 4 Yes 25.00 5 No 40.00 6 No 37.00 7 Yes 34.00 1 Memorial Yes 6.00 2 Yes 9.00 3 Yes 7.00 4 Yes 10.00 5 Yes 11.00 6 No 14.00	MONTH REPORTING ORG SUBMISSION BIRTHS SCREENED 1 Regional Health No 29.00 25.00 3 No 31.00 31.00 4 Yes 25.00 25.00 5 No 40.00 37.00 6 No 37.00 32.00 7 Yes 34.00 33.00 1 Memorial Yes 6.00 6.00 2 Yes 9.00 5.00 3 Yes 7.00 6.00 4 Yes 10.00 9.00 5 Yes 11.00 11.00 6 No 14.00 14.00	MONTH REPORTING ORG SUBMISSION BIRTHS SCREENED RATE 1 Regional Health No 29.00 25.00 86.21% 3 No 31.00 100.00% 4 Yes 25.00 25.00 100.00% 5 No 40.00 37.00 92.50% 6 No 37.00 32.00 86.49% 7 Yes 34.00 33.00 97.06% 1 Memorial Yes 6.00 6.00 100.00% 2 Yes 9.00 5.00 55.56% 3 Yes 7.00 6.00 85.71% 4 Yes 10.00 9.00 90.00% 5 Yes 11.00 11.00 100.00% 6 No 14.00 14.00 100.00%	MONTH REPORTING ORG SUBMISSION BIRTHS SCREENED RATE PASSED 1 Regional Health No 29.00 25.00 86.21% 24.00 3 No 31.00 31.00 100.00% 31.00 4 Yes 25.00 25.00 100.00% 24.00 5 No 40.00 37.00 92.50% 36.00 6 No 37.00 32.00 86.49% 27.00 7 Yes 34.00 33.00 97.06% 31.00 1 Memorial Yes 6.00 6.00 100.00% 6.00 2 Yes 9.00 5.00 55.56% 5.00 3 Yes 7.00 6.00 85.71% 6.00 4 Yes 10.00 9.00 90.00% 9.00 5 Yes 11.00 11.00 100.00% 11.00 6 No 14.00 14.00 100.00%	REPORTING ORG SUBMISSION BIRTHS SCREENING RATE PASSED PASSED WITH RISK FACTORS SCREENING RATE PASSED PASSED WITH RISK FACTORS SCREENING RATE PASSED PASSED WITH RISK FACTORS PASSED WITH PASSED WITH RISK FACTORS PASSED WITH PASSED WITH	REPORTING ORG SUBMISSION BIRTHS SCREENED RATE PASSED PASSED WITH RISK FACTORS PASSED W



Audiology visits



- Comprehensive audiology provider list
- Monitor audiology reporting electronically, fax and not
- Loaner diagnostic equipment to expand capacity
- Regional audiology visits
- Monthly emails
- Annual Topics in Audiology, ISHA, EI and Early Childhood conferences



Contact List

www.hearing.in.gov Fax: 317-925-2888

Suzanne Foley, Au.D., CCC-A

Director

office: 317-232-0972

mobile: 317-339-1328

sfoley@isdh.in.gov



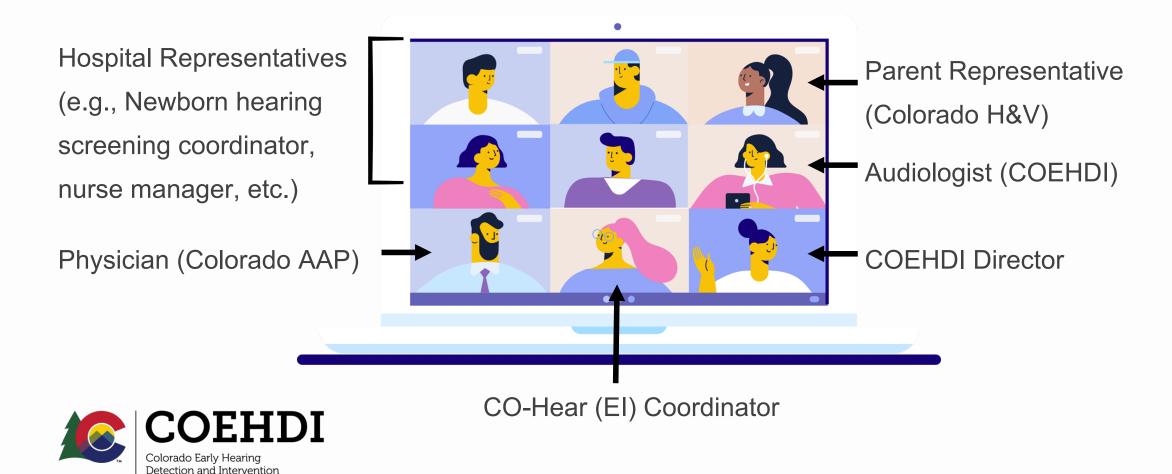


Colorado's Virtual Site Visit Program

- The VSV curriculum was created by a team led by Randi Winston-Gerson at the National Center for Hearing Assessment & Management (NCHAM)
- Colorado was one of 6 pilot states involved in this project
 - All states were invited to adapt the curriculum to meet their state's needs;
 some interview questions were adapted/revised
 - VSV team members in Colorado represent our entire EHDI System



03 Inside a Virtual Site Visit



Recruitment

- Hospitals with NBHS programs were contacted by phone or email to schedule a 1-hour VSV held via Zoom
- Due to privacy restrictions,
 COEHDI does not have access
 to hospital NBHS data, so
 hospitals were asked to share
 their NBHS data report from the
 most recent quarter

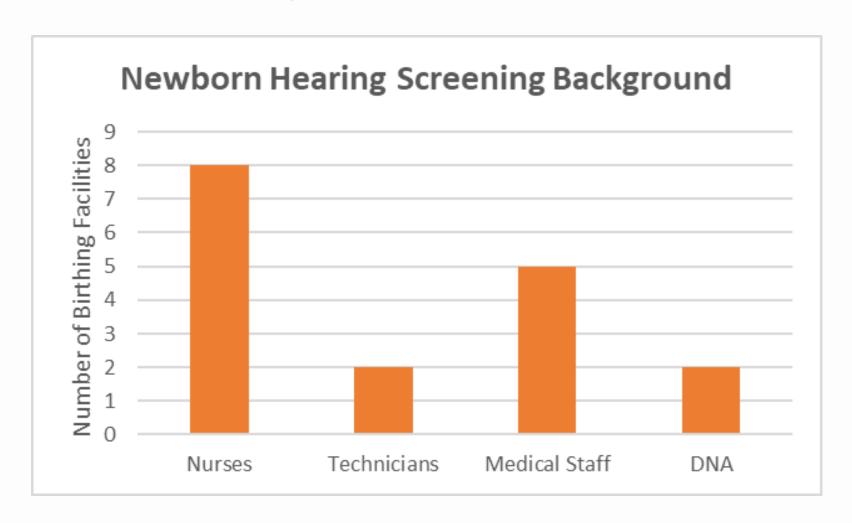
Number of VSVs performed at newborn hearing screening programs in Colorado since launch in 2021

59%
Percent of VSVs
performed in rural
areas*

410/0
Percent of VSVs performed in urban areas*

*Rural defined as a population of 49,999 or less. Metro defined as a population of 50,000 or more (U.S. Census Bureau, 2010)



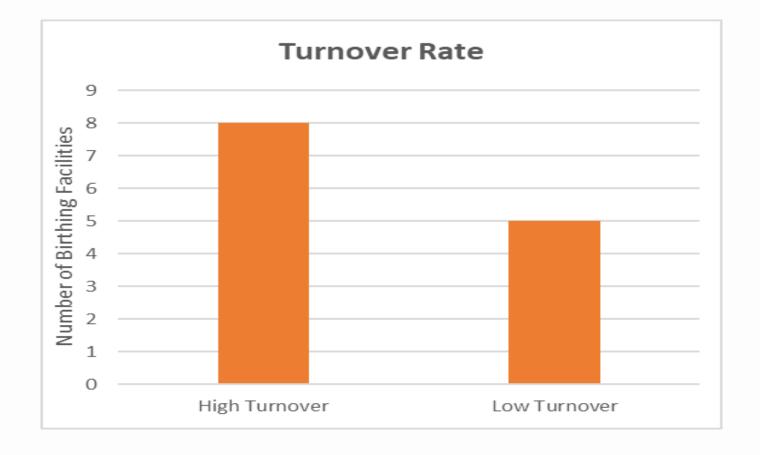




61% of hospitals surveyed reported a high turnover rate of newborn hearing screeners at their hospital

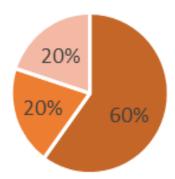


Turnover Rate Among Newborn Hearing Screeners



100% of hospitals interviewed provide some type of training in NBHS. However, the format and type of training widely varies.

Newborn Hearing Screening Training



- Hands-On Training By Coordinator or Seasoned Screener
- Hands-On Training By Nurse Preceptor
- Hands-On Training By Medical Group



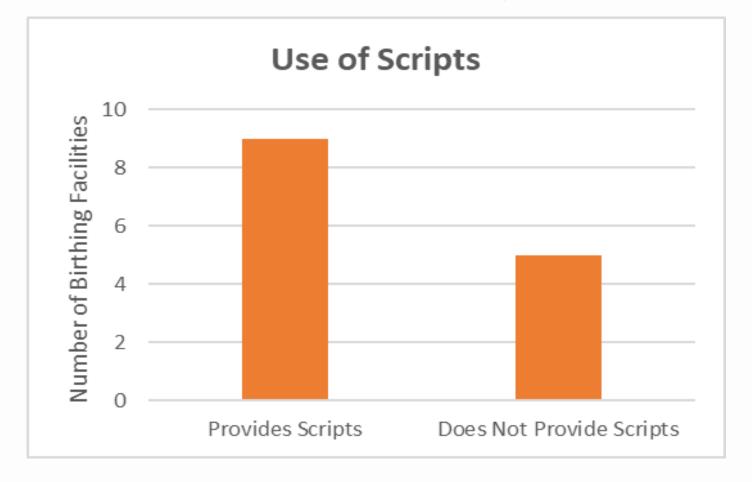
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Data Analysis & Trends

36% of hospitals surveyed *do not* use scripts when explaining NBHS procedures or communicating results with families



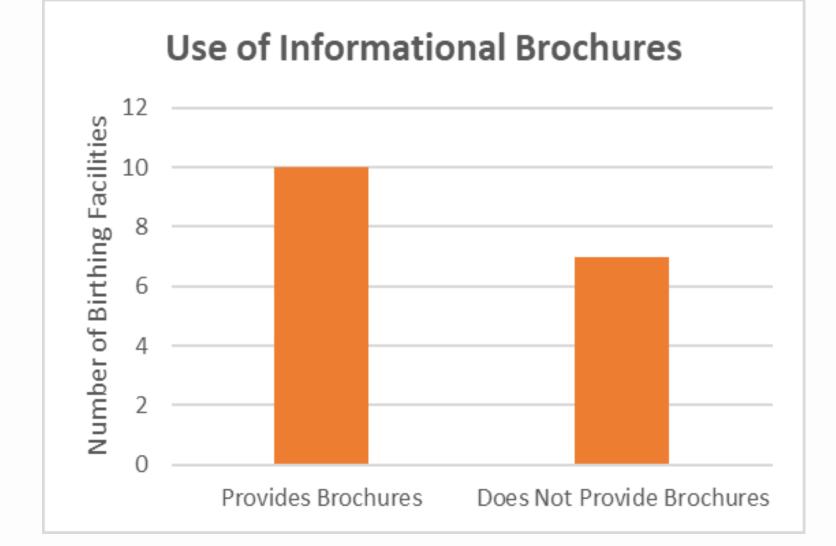
Use of Scripts When Communicating with Families



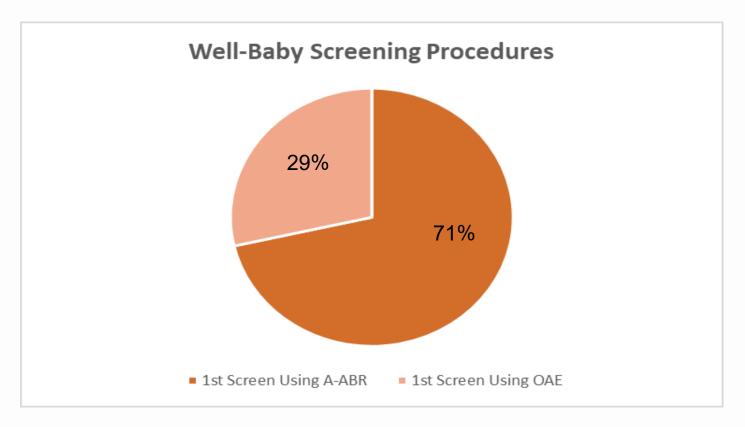
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Data Analysis & Trends

41% of hospitals
surveyed do not provide
informational brochures to
families about newborn
hearing screening,
results, or next steps.





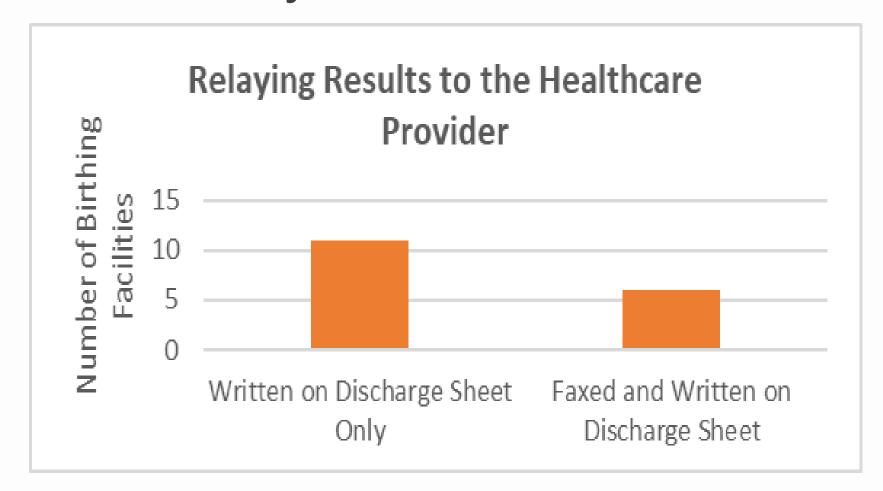


100% of facilities reported 2nd attempt at screening is performed in both ears even if an infant refers on their screening in one ear

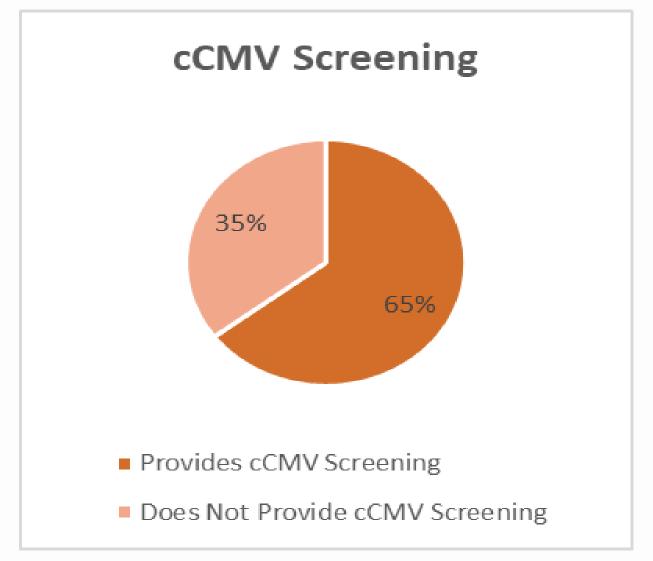


05

Data Analysis & Trends









Our Successes

- Colorado birthing facilities are following JCIH (JCIH, 2019) best practice guidelines for screening technology in the well-baby nursery and in the NICU.
- Colorado birthing facilities are following JCIH best practice guidelines for rescreening if a neonate refers on a screening in one ear.
- All Colorado birthing facilities provide hands-on training for newborn hearing screeners.



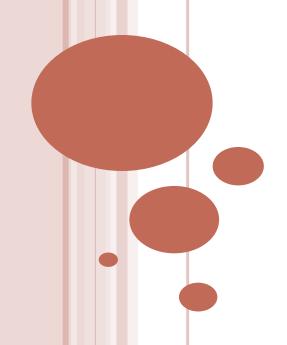
Areas for Improvement

- Screener background: Nurses are performing NBHS in 47% of hospitals; however, Roberts & Jones (2017) suggests that nurses are not comfortable performing NBHS.
- **Training:** Type of hands-on training varies among birthing facilities. JCIH 2019 and Robert & Jones (2017) recommend the use of the NCHAM Newborn Hearing Screening Training Curriculum.
- High turnover: A majority of birthing facilities indicated a high screener turnover, which can impact quality of NBHS program (Low et al., 2005)
- Scripts: Scripts are free and available resources for all birthing facilities; however, these resources are largely unused.
- Use of informational brochures/videos: These are free and available resources for all birthing facilities; however, these resources are largely unused in Colorado.
- Relaying results to the healthcare provider: Suggestion to standardize how results are provided to healthcare providers to ensure facilitation of appropriate follow-up (Shulman et al., 2010; Russ et al., 2010).
- ccMV Screening: There are currently no routine protocols regarding the screening of newborns for cCMV at birth





Tammy O'Hollearn, Iowa EHDI Director





TARGETING PROVIDERS

- Data
- Providers List
- Prioritize the List





TURNING DATA INTO ACTION PROCESS

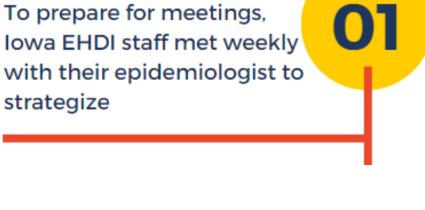




TURNING DATA INTO ACTION PROCESS STEP 1: PREPARE

Prep

Iowa EHDI staff met weekly



STEP



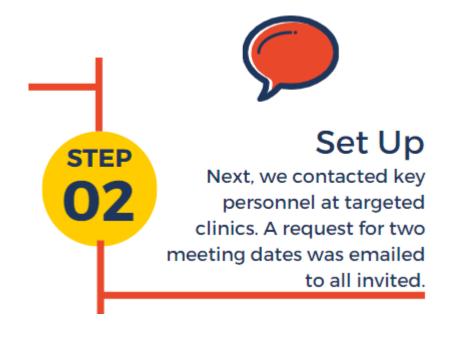
What Percent of Infants Are Diagnosed with Hearing Loss on Time by Location of Diagnostic Provider?

Provider of PHI	Dx (HL) < 3 Months (%)	Median Days to PHI
Dx Provider in Iowa City	26.4	136.0
Dx Provider in Clive	62.9	66.0
Dx Provider in Des Moines	70.7	59.0
Dx Provider in Boys Town, Nebraska	82.8	48.0
Dx Provider in Sioux City	94.1	33.0
Dx Provider in Iowa City	88.2	43.0



The Iowa City provider diagnoses the greatest number of infants with HL, but diagnoses only 26% of infants with HL by 3 months of age. The overall state rate for diagnosis = **58.9%**.

TURNING DATA INTO ACTION PROCESS STEP 2: SET UP





FIRST MEETING INVITATION

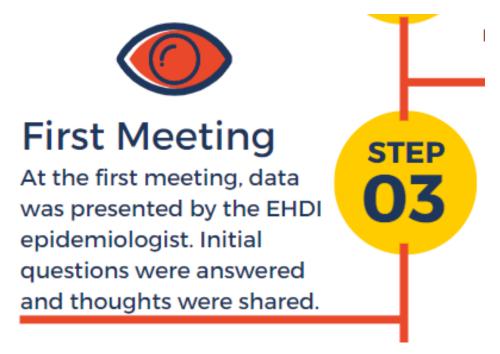
hope this email finds you doing well! Amanda just finished analyzing the last five years' worth of EHDI data of for lowa infants. We would like to share the findings and identify areas we can work together to strengthen the greater system of EHDI.

The findings show that clinic/hospital name has closed some gaps and made huge strides in certain areas of performance. We have also researched and identified key factors within the clinic/hospital name that contribute to late diagnosis, lost to follow-up, and other aspects within the clinic/hospital name network that we think will be of interest to you. We would like to present the findings to you and other professionals within newborn hearing screening and the audiological care community in order to identify key areas for programming to strengthen the system of care for infants and children. We also want to hear from you how best the areas of concern could be targeted to ensure best practices and potentially help us with future programming.

We would like to schedule two meetings. The first meeting will be to review the findings and ask questions. The second meeting will be to develop quality improvement strategies. Please send some dates and times that will work for you and your team. (we also listed who we thought should be there and asked for others we may have missed that they would like included)



TURNING DATA INTO ACTION PROCESS STEP 3: FIRST MEETING



*Copy of data presentation example is available upon request to Tammy O'Hollearn, tammy.ohollearn@idph.iowa.gov





TURNING DATA INTO ACTION PROCESS STEP 4: SECOND MEETING







SAMPLE AGENDA FOR THE SECOND MEETING

- Introduction & Ice-Breaker (5 minutes)
- Discuss diagnosis processes for both
 NICU and Well-baby infants(10 minutes)
- Discuss barriers (20 minutes)
- Discuss QI strategy & solutions (25 minutes)



TURNING DATA INTO ACTION PROCESS STEP 5: NEXT STEPS

Next Steps

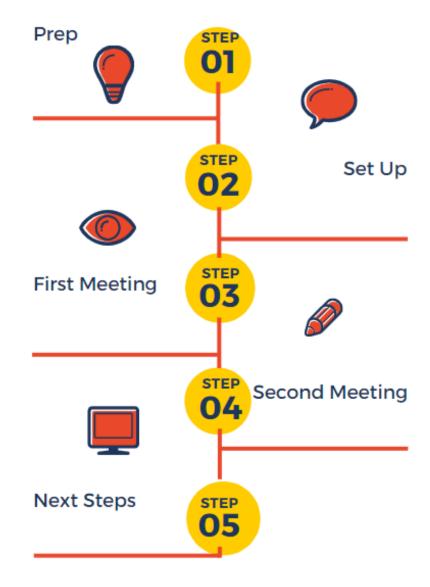
Done! Right? Not Quite.







TURNING DATA INTO ACTION PROCESS





LESSONS LEARNED

- Level of engagement may vary
- Encouragement to think outside the box
- Engaging managers and QI coordinators
- · Centering discussion around control or influence
- Keep the change small to start
- Offer to be a part of the solution
- Build rapport



LESSONS LEARNED

- Document progress throughout
- Prioritize work
- Don't be afraid to use data
 - Tell your story
 - Influence change
 - Don't shy away from talking about inequities, problems, or gaps
- Celebrate the wins!



NEXT UP FOR IOWA EHDI

- Continue QI work with current providers
- Review and revise process
- Target additional providers
- Additional analysis, quantitative and qualitative
- Explore collaboration with other providers
- Use data to prioritize follow-up
- Publish data analysis findings



PRESENTER CONTACT INFORMATION

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