

Integrated Data Systems: Successes & Challenges in the Indiana EHDI Program

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Presentation Overview





Presentation Overview

- EARS
 - Day-to-day use
 - Data items reported
 - Reports
- Successes/Benefits
- Challenges
- Next Steps
- Discussion

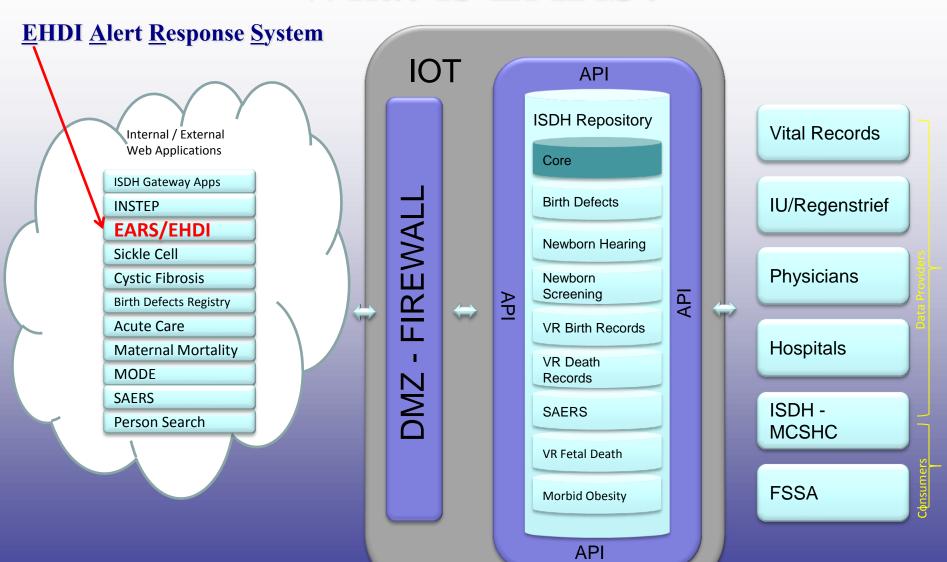


What is EARS?

EHDI Alert Response System



What is EARS?





Why was it created?

To improve.....

Follow-up on babies

Not screened

Not passing UNHS

At Risk for delayed onset of hearing loss

Diagnosed with hearing loss

Communication among

Hospital staff

EHDI staff

Audiologists

Guide By Your Side & Families

First Steps – System Points of Entry

Data reporting capabilities

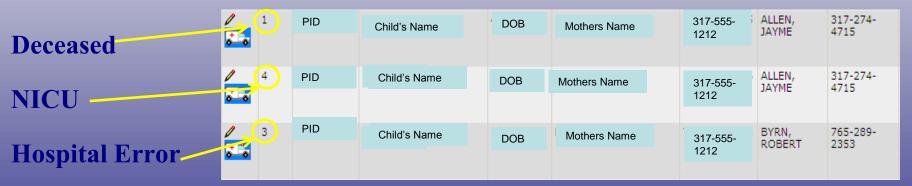


Hospitals Report "Exceptions"

Exception Codes

Not Screened Due To: 1. Deceased/Terminal 6. Religious Refusal		3. Hospital Error 8. Initial Screen Next Month	4.NICU 5.Unauthorized Refusal 9. Rescreen Next Month						
New Patient Intake:	Pass UNHS: (previously repo	orted as not screened or transferred IN)	Did Not Pass UNHS: (complete Refer To section)						
10. Transferred IN	11.Passed	12. Passed At Risk	13.Did Not Pass	14. Did Not Pass At Risk					
Use the following values to define to whom the child was referred, check all that apply.									
A. First Steps	B. Primary Care Physician C. Audiologist D. Ear, Nose & Throat Physician								

Children who did <u>not</u> receive hearing screening....



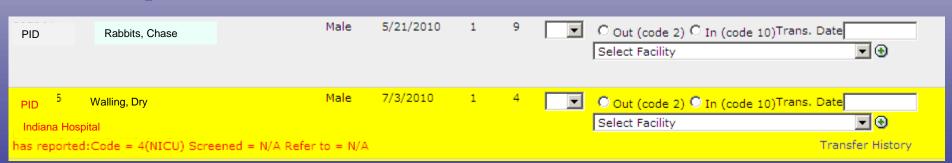


Hospital Report "Exceptions"

Children who did not pass UNHS or have risk factors....

	Code	MRN Go	Infant Name	DOB	Mother Name	Mother Phone	Physician Name	Physician Phone
+ ==	13	MRN	Child's Name	7/18/2010	Mother's Name	Phone #	HAVEN, ROBERT	765-386- 7301
0 0								

Some exceptions are considered "Hold-overs"





EHDI Staff Receive Alerts

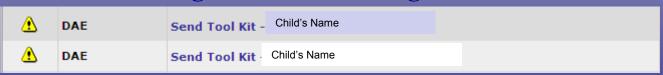
Children who did <u>not</u> receive hearing screening....

Priority	Source	Message
8	MSR	Hospital Error - Child's Name
⊗	MSR	Hospital Error - Child's Name
	MSR	Religious Refusal - Child's Name
U	MSR	Religious Refusal - Child's Name

Children who did not pass UNHS or have risk factors....

8	MSR	Did Not Pass - Child's Name	
⊗	MSR	Did Not Pass At Risk - Child's Name	(Exception Update)

Children who are diagnosed with hearing loss....





EHDI Staff Receive Alerts

Additional Follow-up...

8	EMAIL	Email Response by Child's Name							
<u> •</u>	EMAIL	Email Response Due Child's Name							
8	DAE	DAE Follow-up Appt. Lapsed: Call Audiologist Child's Name							
⊗	Letter Response	Delayed Alert: Letter Response Due Today Child's Name							

Clerical Staff Assistance...

<u> </u>	ВАТСН	Batched Letters Are Ready For Printing.



EHDI Staff Processes Alerts

Review of Child Health Profile (CHIP)

Demographics

Responses

DAE Data

File Status

UNHS Results

Notes

Alerts

GBYS Data

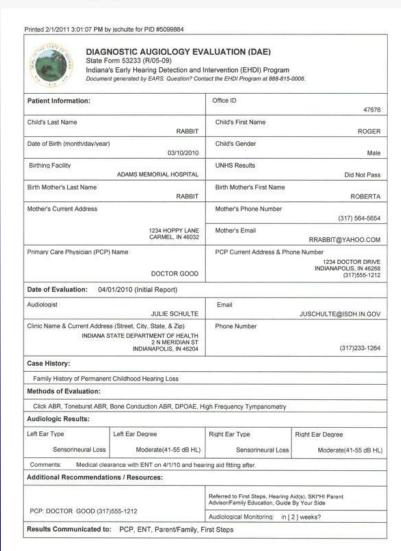
HOME EHDI - Child Health Information Profile											
	Gender M OOB 05/12/2010			Race Ethnicity Birth Facility Birth Defects	BLACK OR AFRICAN AMERICAN NON-HISPANIC, FILIPINO, PORTUGUESE COMMUNITY HOSPITAL MUNSTER No Confirmed Birth Defects			PID MRN Death N/A Gestational Age 25 Transfused? ⊙ Yes ○ No ○ NOS			
	Mother's Name RABBITS, MAMA Edit Mother Data			Address Phone	1234 SUNNY WAY, INDIANAPOLIS, IN 46268, County:LAKE 317-555-1212				Add MID 3363578		
Father's N	lame	Rabbi	ts, DADA		Address					Pho	one
PCP's Nam	ie	@ G0	OOD, DOCTOR	*	Address 1234 DOCTOR DRIVE, INDIANAPOLIS IN 46268 Phone 317-555-12				one 317-555-1212		
Alerts				File	Outcomes Respons	es UNHS Data DA	E Data Note	s New DAE OLD	UNHS		
PRIORITY	SOURCE		MESSAGE					CREATED	DELAY TO	ASSIGNED TO	RESOLVED
8	MSR		Did Not Pass At Risk -	Child's	Name			7/29/2010	7/29/2010	Laura Gutwein	



Diagnostic Audiology Evaluation

2010 DAE Data

- 2,501 DAEs submitted
- 2,250 individual children
- 107 audiologists
- 81.5% submitted electronically





Short-term Follow-up Guide By Your Side Outcomes Form in EARS

- Parent Program Coordinator sits within the EHDI program
- 12 Parent Guides located across the state
- Provides up to 6 visits
 - First visit in person
 - Remaining meetings at location and frequency requested





Technology

Hearing Aid

Guide By Your Side Outcomes Form in EARS

Cochlear Implant

Other

FM System Hearing Aid Type Place of use Date fitted: Laterality: FM System: Place of use	C Yes No C Unknown C Loaner Personal Both Home and School Select School Only Home Only Both Home and School OtherSelect	Cochlear Implant Date of Activation: Date of CI Surgery: Place of Use Laterality:	SelectSelectSelect Left Right Both Unknown
Early Intervention ED Team Evaluation Scheduled:		Occurred:	11/01/2010
Enrolled in Part C services :	⊙ Yes ○ No ○ Referred ○ Unknown	SPOE	CLUSTER B 🔻
Non-Part C services :	C Yes © No C Unknown	Date of IFSP :	11/12/2010
Enrolled in Part B services :	C Yes ⊙ No C Unknown	Enrolled in Non-Part B services :	C Yes C No ⊙ Unknown
Location of intervention Services : EI Services Received :	Select	Child's Primary Communication Methodology:	SelectSelect Listening and Spoken Lanhuage(only) Cued Speech / Language
Audiology	Speech / Language / Heaving Therapy: / Signt Street	Speech / Language / Heaving They are / Cairette	Total Communication American SIgn Language
	☐ Speech/Language/Hearing Therapy (First Steps)		Unknown Other
☐ Deaf/HOH Parent-Infant Program (Sta	te)	☐ SKI*HI Program ☐ Physical Therapy (private)	Other

C Yes O No C Unknown

☐ (Specify in comments)



Guide By Your Side Outcomes Form in EARS

Referrals						
Connection with Family Suppport Organization:	t O Yes O No	⊙ Unknown C	Recommended	If yes, please specif	y:	
Genetic Eval and Counseling:	C Yes C No	o ⊙ Unknown ⊜ F	Recommended	Received Genetic Eval/Counseling:		C Yes C No C Unknown
ENT Eval:	C Yes C No	⊙ Unknown O	Recommended	Received ENT Eval:		C Yes C No ⊙ Unknown
Vision Eval:	C Yes C No	⊙ Unknown O	Recommended	Received Vision Eval	l:	C Yes C No C Unknown
Other Provider or Service:	C Yes C No	⊙ Unknown O	Recommended	Received Other serv	ices :	O Yes O No ⊙ Unknown
Please specify Other Service/pro	ovider :					
Children with Special Healthcare Services info. Received:	O Yes O No	O Unknown O	NA	Parent Toolkit Recei	ved:	C Yes C No ⊙ Unknown
How was child referred to GBYS:	Select	1		Specify Other		
Guide by Your Side First contact:	UNHS First Steps SPOE EI Provoder			Participating:	C Yes C No, but F	PC follow-up O Declined Follow-up
Enrolled:	Self Audiologist			First Visit:		
Completed:	Physician Hands and Voices			Visits	0	
Parent Guide	School personnell Other	⋾		Signed Release Onfile	C Yes C No C R	efused
Child Moved Out of State:	State moved to	•		Date state notified by ISDH		
Name of Informant:				Role of Informant:	Select ▼	
Last Updated:				Last Updated By:		



Other EARS Features

Secured Email

Print PID	Received	From	Subject		Message Preview	Reply To			
3 × 504264	2/2/2011	Julie Schulte	ISDH EHD)I Follow-up	Please follow-up on the child below. If you hav	juschulte@isdh.in.gov			
ISDH US	SE Please Do No	ot Remove							
Mother Name:	MAMA DENISE	RABBITS			Haland an attachment.				
Address: 1234	SUNNY WAY, IN	NDIANAPOLIS, IN	46268		Upload an attachment: Browse	Upload			
Child Name: Cl	HASE BENNETT	RABBITS							
Child DOB: 05/	12/2010				Show my j	previous documents.			
Child Sex: Male	:				Attachments: 0 file(s) attached.				
Phone: (317) 5	55-1212								
County:									
PID: 5042647									
Alert Id =4228	5								



Other EARS Features

Reports

Alert Processing

Source	Priority	Created	Alert Message	Resolved	Resolved
dae	high priority	11/9/10	dae follow-up appt. lapsed: call audiologist -	l	** passed dae **
uda	high priority		batch letters	12/2/10	f/up letter: 85 oos did
nodelay	high priority	12/2/10	finalize case -	l	f/up letter: 85 oos did
letter	high priority	12/2/10	delayed alert: letter response due today -	l	ehdi file finalized

MSR Submissions

Reporting Period		Period	Opened	Closed	Late	Contact on file	Created By	Closed By
12	20	010	11/10/2010	01/05/2011	No	MSR Contact	MSR Contact	MSR Contact
11	20	010	10/08/2010	12/03/2010	No	MSR Contact	MSR Contact	MSR Contact
10	20	010	09/02/2010	11/10/2010	No	MSR Contact	MSR Contact	MSR Contact
9	20	010	08/04/2010	10/08/2010	No	MSR Contact	MSR Contact	MSR Contact
8	20	010	07/01/2010	09/02/2010	No	MSR Contact	MSR Contact	MSR Contact

Additional reports completed by NBS IT support staff in a timely manner



Benefits EARS & Integration

For hospitals

- Only enter "exceptions" on the MSR
- If child is already known, fields will be pre-populated
- Easy tracking of sick babies (transferred and NICU) through Hold-over list

Audiologists

- If child is already known, fields will be pre-populated
- Enables EHDI to assist in timely manner with families who do not return



Benefits EARS & Integration

EHDI Staff

- Reduced data entry
- Increased contact with families and professionals
- Access to IBDPR reported conditions
- Automatic notification of deceased children
- Automatic update of adopted children
- Access to other contact information if names or addresses have changed
- Improved timeliness of follow-up procedures
- Improved data reporting accuracy and capability



Challenges EARS & Integration

- Security
- Managing of account creation
- Matching data from different sources
 - Current match rate about 85% after adding additional fields in March 2010
- Identifying & merging of duplicate files
- Multiple births
- "Ownership" of specific data fields
- "Place in line" when changes are needed



Next Steps

- Additional "canned" and ad hoc reports
- Improved matching by including blood spot "K-number" to optional MSR fields
- Additional data item collection as part of the iEHDI contract
- GBYS Parent Guide access to EARS
- PCP access to newborn screening data



Discussion...



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Early Hearing Detection & Intervention Program