

Presentation Acronyms

IL H&V GBYS – Illinois Hands & Voices Guide By Your Side

APORS – Adverse Pregnancy Outcomes Reporting
System

NIH – National Institutes of Health

IS – Information System

LTF – Lost to follow-up

IDPH – Illinois Department of Public Health

FEHDI – Families in EHDI

FBOs – Family-based organizations

NTRC – National Technical Resource Center

PHI – Personal Health Information



ENHANCING AND SUPPLEMENTING INFORMATION SYSTEM

EHDI

Tuesday, ~~2024~~ March 19

Time: 11:00 AM - 11:25 AM

Room: Granite A-C



Ginger Mullin

IL EHDI



Kate Jordan

IL EHDI



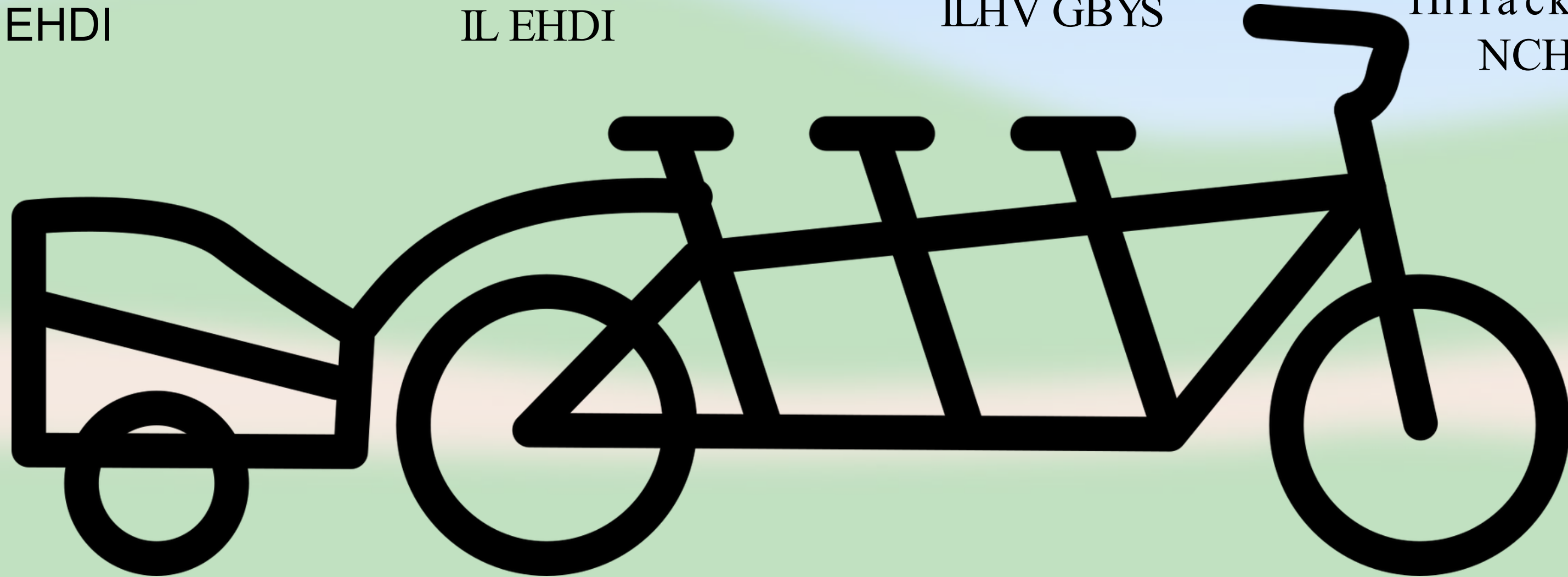
Carrie Balian

ILHV GBYS

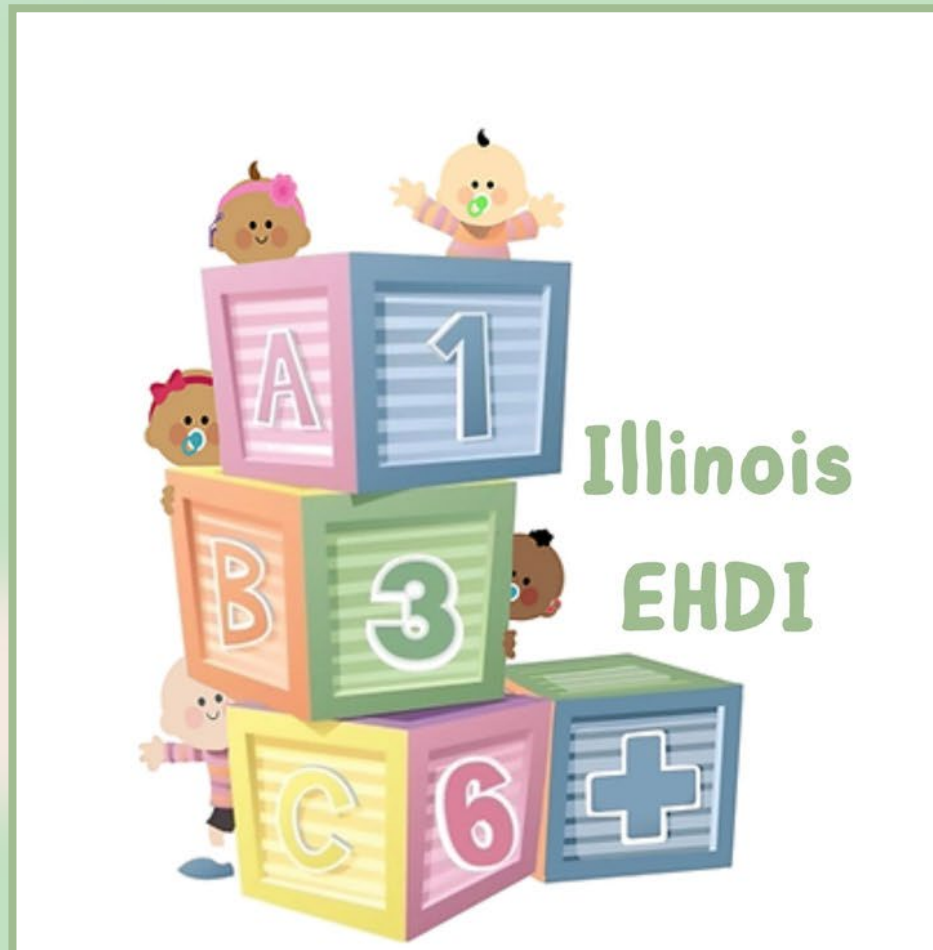


James Fritzler

HiTrack/ USU/
NCHAM



Disclosure for Ginger Mullin AuD



Dr. Mullin is an employee of the Illinois
Department of Public Health

The Illinois Early Hearing Detection and
Intervention Program (EHDI) is supported by
funding through the Centers for Disease
Control and Prevention (CDC) and Health
Resources & Services Administration (HRSA)

Accepted to present by the 2024 EHDI
Conference Committee

Presenter does not personally receive any
financial or non-financial benefits from any
agencies referenced in this presentation

Disclosure for James Fritzler

Mr. Fritzler is an employee of Utah State University as part of HiTrack Development

NCHAM is supported by funding through Health Resources & Services Administration (HRSA)

Accepted to present by the 2024 EHDI
Conference Committee

Disclosure for Carrie Balian



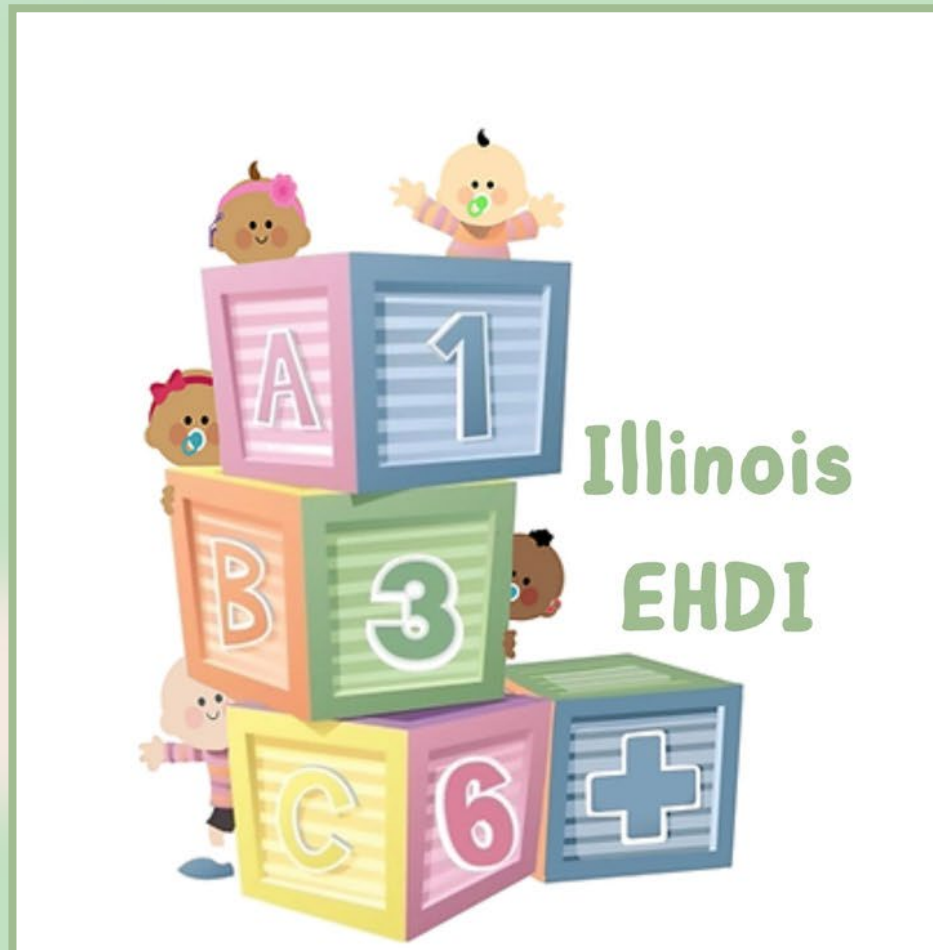
Ms. Balian is a contractor with IL
Hands & Voices Guide By Your Side

The IL Hands & Voices Guide By Your Side
program is supported in part by a grant
from the IL Department of Public Health

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Disclosure for Kate Jordan



Ms. Jordan is an employee of the
Illinois Department of Public Health

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Expansion of Birth Certificate Data

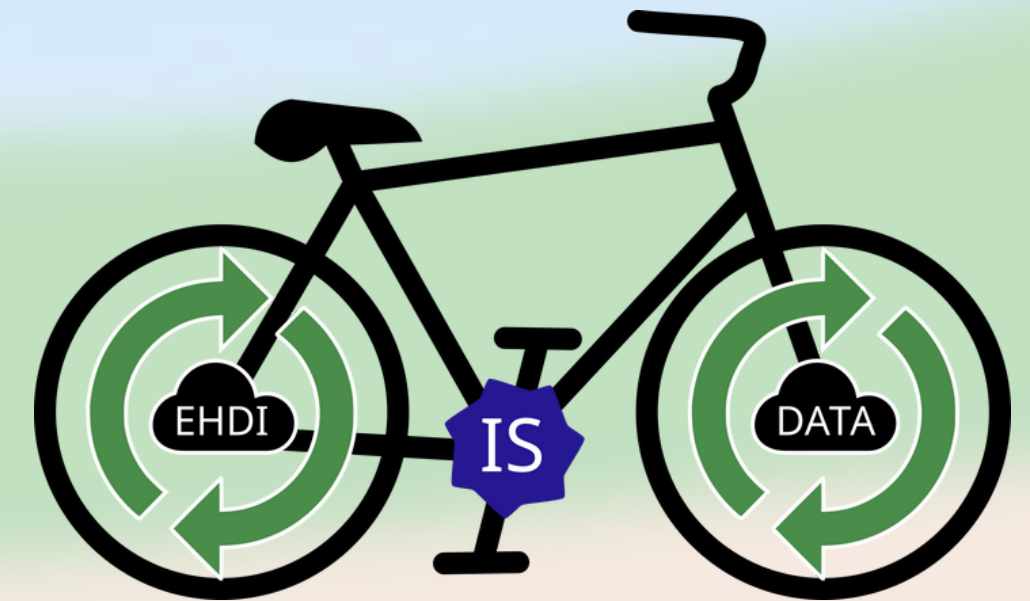
- Added “Parent 2” data transfer from birth certificates to improve Early Intervention data matching
- Corrected coding for free standing birth centers
- Added death data for children 0-36 months (assists transition and language and literacy data marking)



Data Exchange

Medicaid and Adverse Pregnancy Outcomes System

- Targets
 - Load contact details from Medicaid into HiTrack (IS)
 - Also gain key health info - out of state services and specialty providers
 - Exchange health risk factors between HiTrack (IS) and APORS
 - Hearing Related & Non-Hearing Related
 - Especially Post-Discharge Diagnosis
 - Eventually get CMV results
 - APORS motivated due to a new NIH grant
- Challenges
 - Risk factor definitions changed, needing a place for them
 - Timing of data load - matching rules look back 30 days
- Progress
 - Incremental

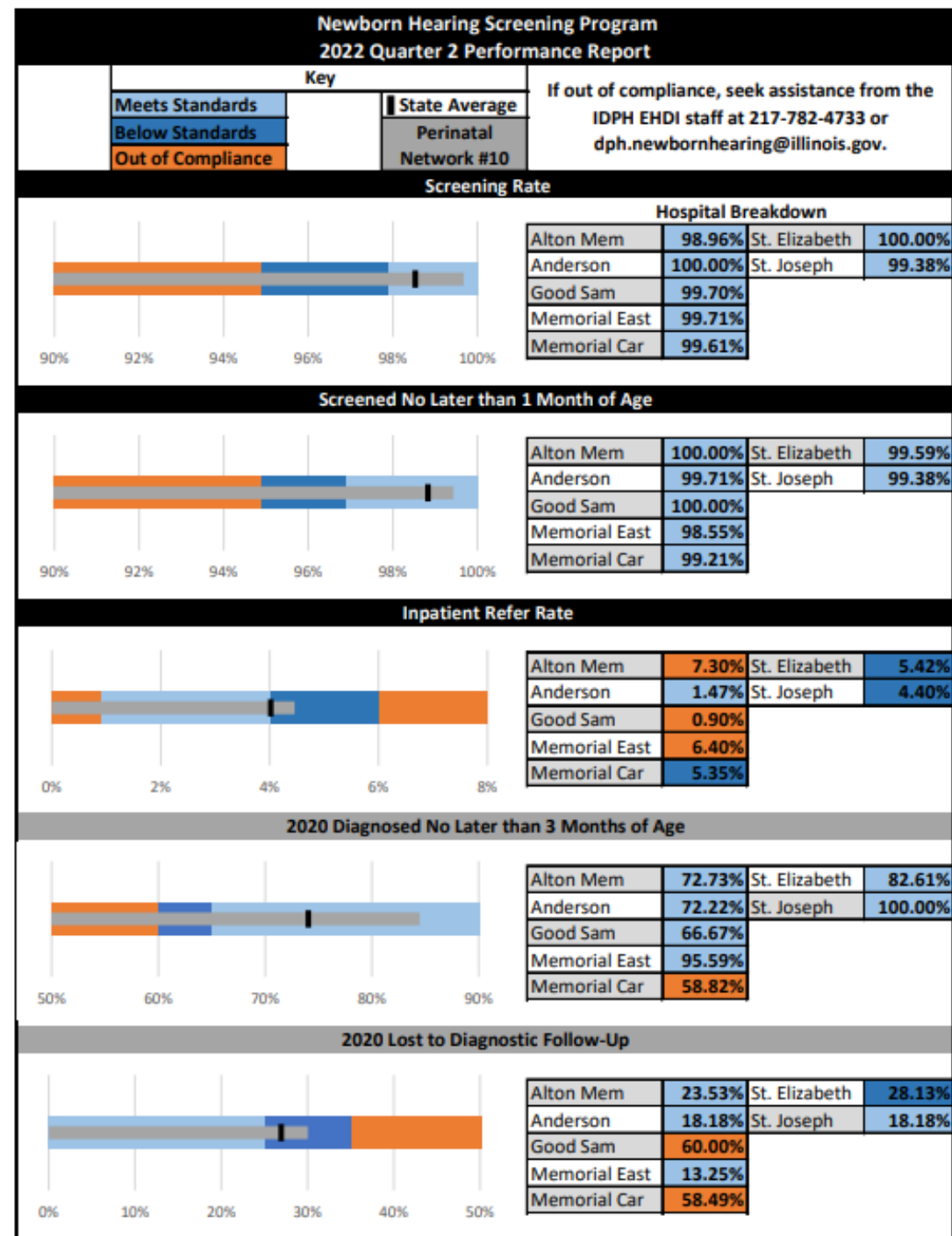


Faxing - 2 way sharing

- Data Exchange accurate Pediatrician contact information including FAX#
 - Automating FAX in IS led to 80% Staff Effort Reduction
 - Cost reduction - postage (\$0.68 each) and reduced staffing
 - 100 to 200 letters faxed a week
- Data Exchange means less effort
- Faster response times from physicians and audiologists
- Confidence in record details
 - Less “wheel spinning” while arranging services for babies
- Team Morale
 - Clerical staff felt validated - investment made in their processes
 - Improved basic functions of the state EHDI program



Hospital "Report Cards"



2020 data was used for the diagnosed no later than 3 months and lost to diagnostic follow-up measures. EHD data can take one year to normalize due to scheduling and receipt time of reports. This data has been submitted to the Centers for Disease Control and Prevention (CDC) and is considered complete. If you would like updated individual hospital rates for these measures, please contact the EHD staff.

Perinatal networks as a whole and individual hospitals that are out of compliance for certain measures should contact the EHD staff for remediation plans. There are remediation plans for each measure. A multitude of procedures and protocols impact each measure. Therefore, procedures and protocols will be analyzed to determine if best practices are being followed. The Newborn Hearing Screening Program looks forward to working together to improve our state performance.

These performance measures are to add transparency to our Newborn Hearing Screening Program across the state. The bullet charts on the left show our colored baselines and your network's performance compared to the state average. The hospital breakdown in the highlight table on the right shows what figures make up your perinatal network gray bar in the chart.

Screening Rate = Total documented as screened / (Total occurrent births - Not screened infant died - Not screened non-resident - Not screened unable due to medical reasons - Not screened parent declined services)

Screened No Later than 1 Month of Age = (Total pass before 1 month of age + No pass before 1 month of age) / Total documented as screened

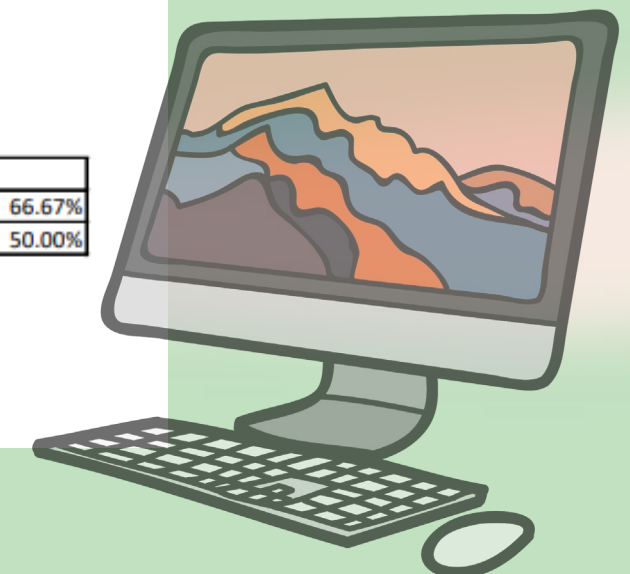
Refer Rate = Total Referred / Total Screened

2020 Diagnosed No Later than 3 Months = (No hearing loss before 3 Months + permanent hearing loss ID before 3 months) / (Total with no hearing loss (initial diagnosis) + Total with permanent hearing loss (initial diagnosis))

2020 Lost to Diagnostic Follow-Up = No diagnosis-unknown / (Straight to diagnostic + Total not pass)

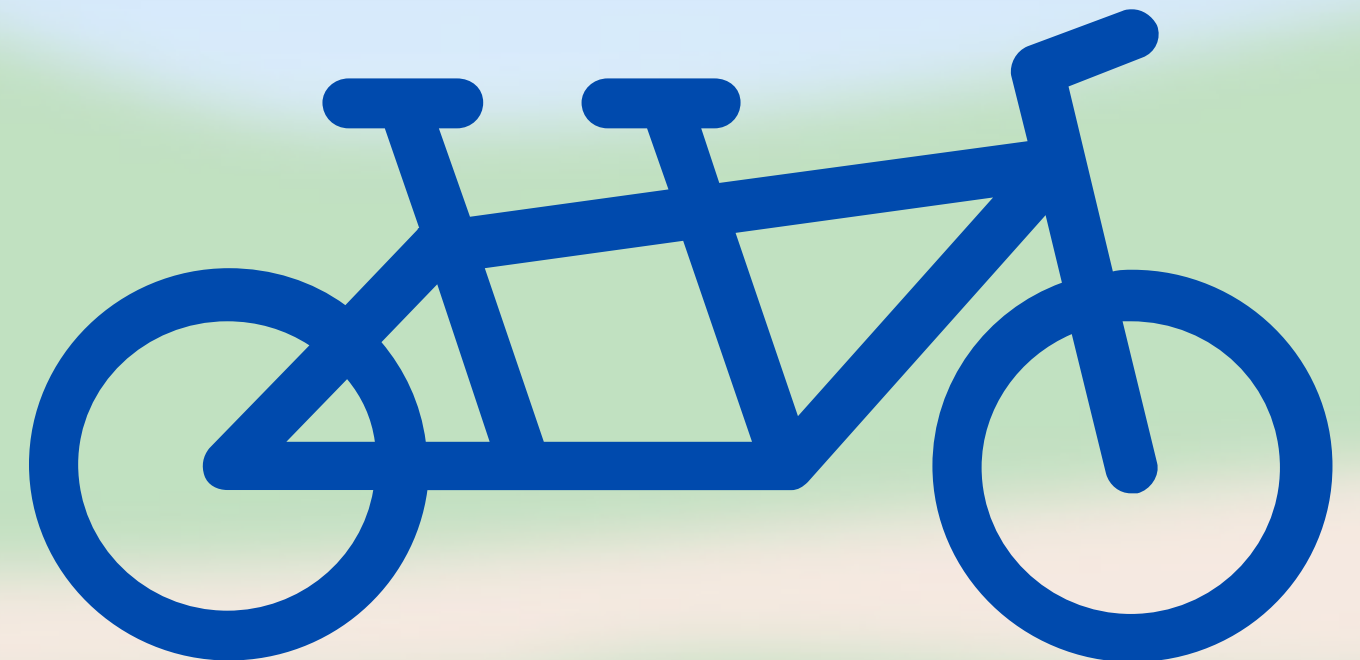
Outpatient Refer Rate			
Alton Memorial	16.67%	St. Elizabeth	66.67%
Anderson	57.14%	St. Joseph	50.00%
Good Samaritan	0.00%		
Memorial East	92.31%		
Memorial Car	0.00%		

Outpatient Refer Rate = Percentage of infants who received an outpatient screening and referred



Remediation/ Screening Performance Countermeasure Matrices

- Screening Goal
- Refer Rate Goal
- Diagnostics Goal
- LTF Goal



Process overview



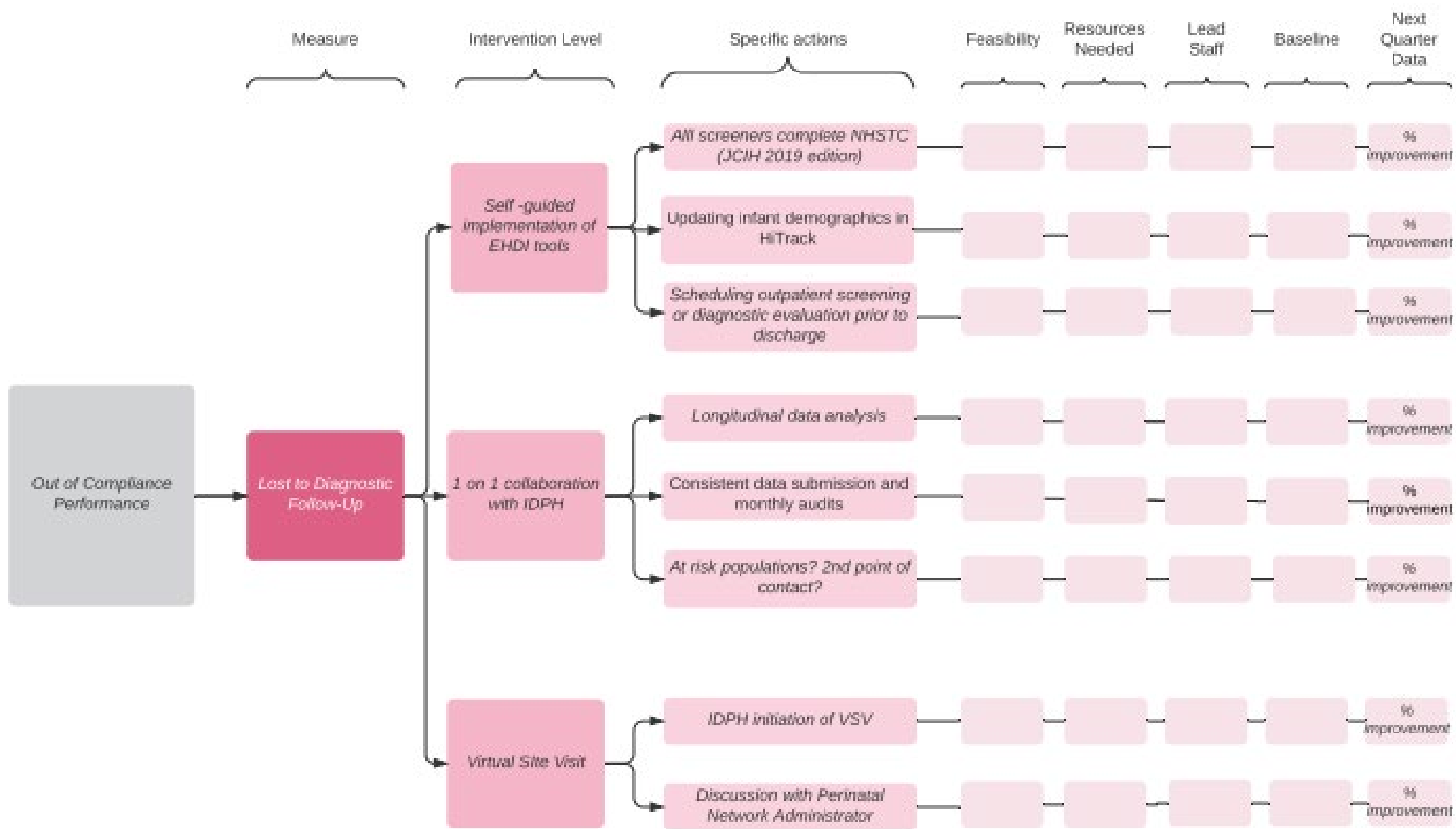
Decision analysis

Decision to be made: Steps for hospital remediation

	<i>Self-guided implementation of EHDl tools (enter date initiated)</i>	<i>1 on 1 collaboration with IDPH (enter date initiated)</i>	<i>Virtual Site Visit (enter date initiated)</i>
<i>Does not meet Screening goal</i>	Orange	Orange	Orange
<i>Does not meet Screening No Later than 1 Mo goal</i>	Orange	Orange	Orange
<i>Does not meet Refer Rate goal</i>	Purple	Purple	Purple
<i>Does not meet Dx No Later than 3 mo goal</i>	Green	Green	Green
<i>Does not meet LTF</i>	Pink	Pink	Pink

Hearing Screening Performance Countermeasure matrix -LTF Goal

Gabrielle Bires | June 30, 2021



Legend				
Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data
1 - Very difficult to implement	1 - Not possible due to resources	Please enter first and last name of individual responsible for action plan and implementation	Current performance score as shown on most recent quarterly report.	Performance score as shown on next quarterly report to show percent decrease, improvement or stagnation.
2 - Difficult to implement	2 - Too many resources needed			
3 - Somewhat difficult to implement	3 - Many Resources Needed			
4 - Easy to implement	4 - Some resources needed			
5 - Very easy to implement	5 - Little resources needed			

“Report Cards” & Remediation

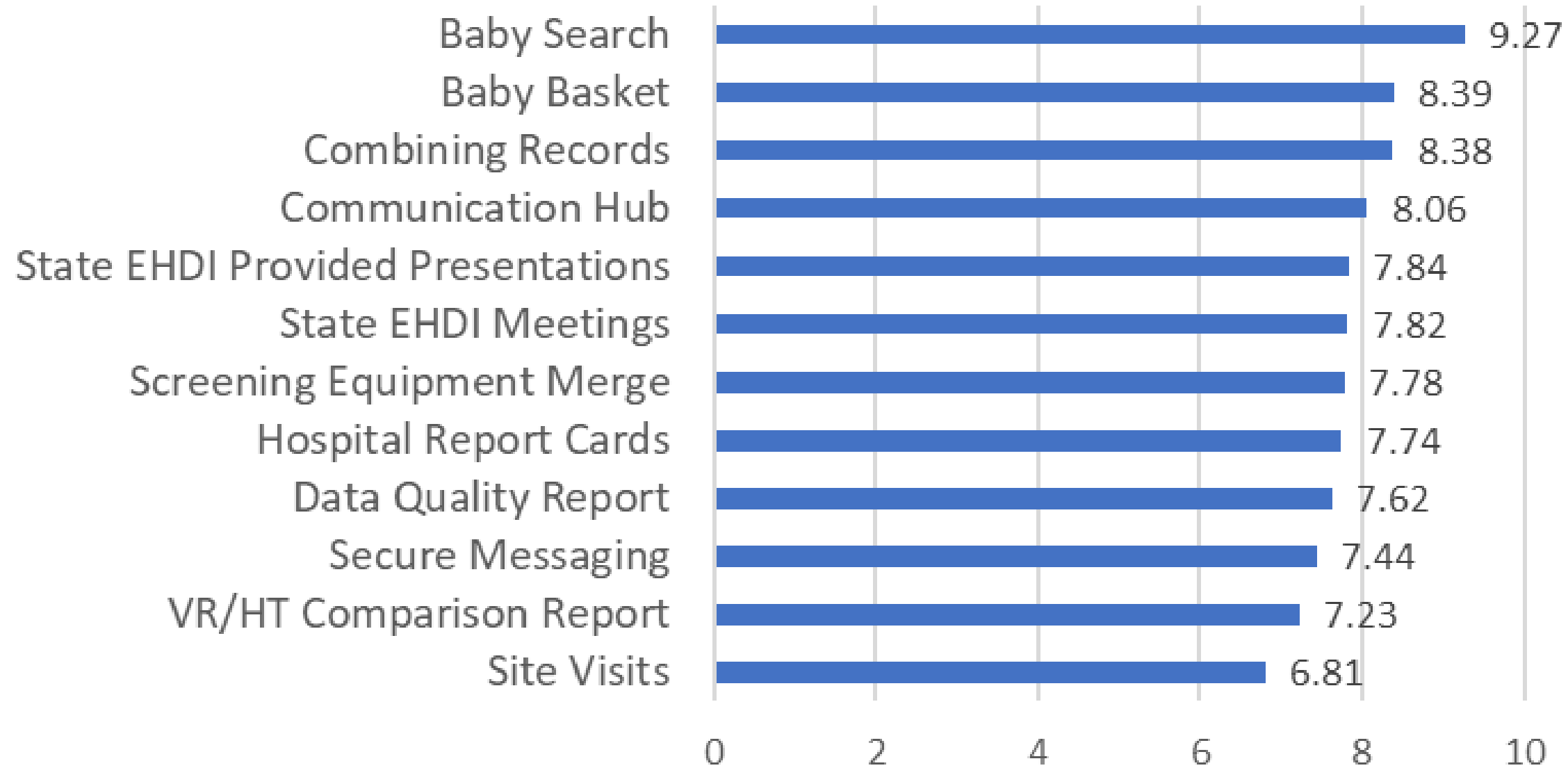


Quality Assurance Query

Usefulness Query attached to the EHDI-

IS

Usefulness Rating on a Scale of 1-10



FEHDI

- Pioneers in the creation
- Standardized data collection
 - Date of referral sent and received
 - Age of infant at referral
 - Initial contact date to family
 - Contact: made but unresponsive or unable to contact
 - Date of enrollment
 - Age of infant at enrollment
 - Reason of discontinued services
- How it's reported: pilot in database
 - Custom forms then integration in database update

GBYS IL FEHDI data 0

attempt t... GBYS contact date ... GBYS enrollment ... GBYS contact made bu... GBYS date of refus... GBYS un

GBYS IL FEHDI data

GBYS EHDI Referral sent to FBO date - G

GBYS Intake Completed By

GBYS Referral Date received at FBO - H

GBYS date of first attempt to contact family

GBYS contact date with family - J

GBYS enrollment date in FBO -K

GBYS contact made but unresponsive - M

GBYS date of refusal/decline - N

GBYS unable to contact - O

GBYS 22 PG name assigned to family

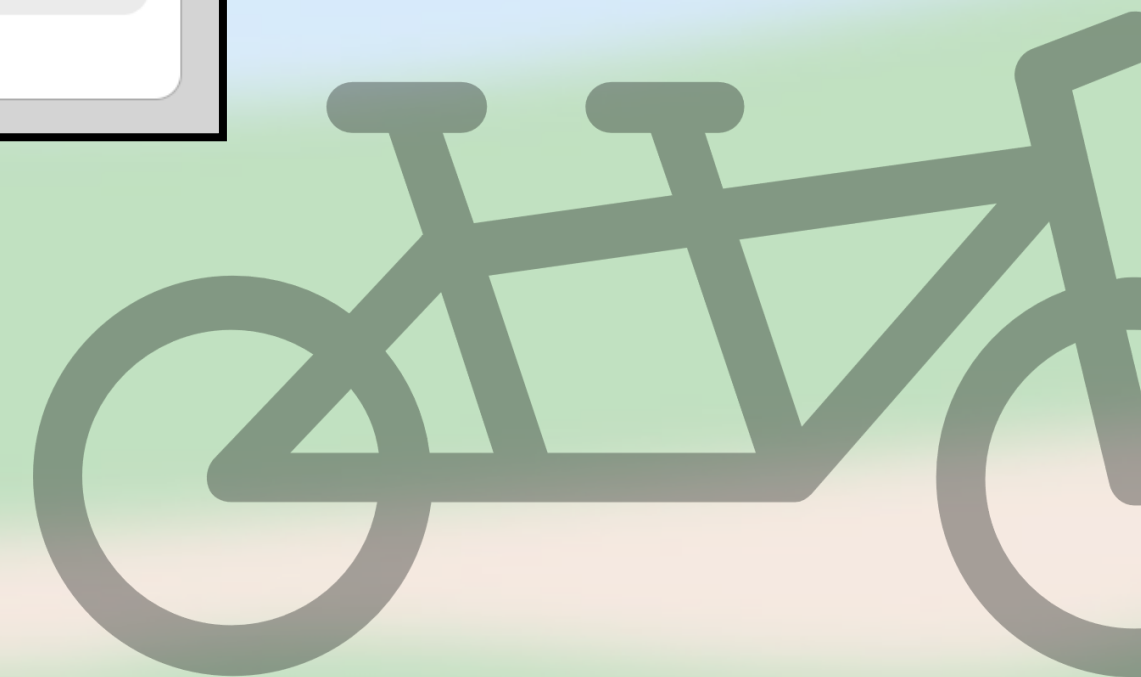
GBYS Family region color

GBYS Parent preferred contact methods

✓



Found under
“Supporting Resources”
section



0-3 Years Old Hearing Screening



Strata Reporting

Because on-site collaboration with home visiting programs was not possible during 2020, the EHDI Program displayed its flexibility and re-directed efforts toward foundational elements for hearing screening in infants and toddlers. Because the incidence of hearing loss doubles between birth and school-age, targeting the 0-3 age group is critical in identifying potential hearing losses in this population.

The Illinois EHDI Program created a web-based information system as a technical resource and tracking tool for early childhood hearing screening (0-3 years) aggregate data. In the future, the EHDI Program will collaborate with community partners and stakeholders to create a model of best practices for addressing late onset and progressive hearing loss in the 0-3 population. Resources for early childhood hearing screening may be found at www.kidshearing.org.

The prevalence of hearing loss
can triple by school age.

2/3 per 1000
to
6/9 per 1000

Working to document the rate of
screening and prevalence of
atypical hearing.



STRATA



- Aggregate data
 - Establishing a baseline (language & literacy)
 - No PHI
- Strata User rights
 - System Admin level
 - State level
 - User level
- Quality Assurance Query

<https://stratareporting.org#about>





Early Hearing Detection and Intervention



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Illinois Sound Beginnings



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Strata



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Hi-Track



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FEHDI
Under "Supporting Resources"

1/2024

Hearing Screening Performance Countermeasure matrix -Diagnostics Goal

Gabrielle Stires | June 30, 2021

Measure	Intervention Level	Specific actions	Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data
Out of Compliance Performance	Diagnosed No Later than 3 Months of Age	Self-guided implementation of EMDI tools	All screeners complete NHSTC (JCIH 2019 edition)				N Improvement
			Complete Nurse Manager checklist				N Improvement
			Consistent data submissions of both inpatient screenings				N Improvement
	1 on 1 collaboration with IDPH	1 on 1 collaboration with IDPH	HiTrack training of hospital monitoring of infant record review				N Improvement
			Longitudinal data analysis				N Improvement
			Analysis of patient-level screening submissions				N Improvement
	Virtual Site Visit	Virtual Site Visit	IDPH initiation of VSV				N Improvement
			Discussion with Perinatal Network Administrator				N Improvement

Legend

Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data
1 - Very difficult to implement	1 - Not possible due to resources	Please enter first and last name of individual responsible for action plan and implementation	Current performance score as shown on most recent quarterly report.	Performance score as shown on next quarterly report to show percent decrease, improvement or stagnation.
2 - Difficult to implement	2 - Too many resources needed			
3 - Somewhat difficult to implement	3 - Many Resources Needed			
4 - Easy to implement	4 - Some resources needed			
5 - Very easy to implement	5 - Little resources needed			

Hearing Screening Performance Countermeasure matrix -LTF Goal

Gabrielle Stires | June 30, 2021

Measure	Intervention Level	Specific actions	Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data
Out of Compliance Performance	Self-guided implementation of EMDI tools	Self-guided implementation of EMDI tools	All screeners complete NHSTC (JCIH 2019 edition)				N Improvement
			Updating infant demographics in HiTrack				N Improvement
			Scheduling outpatient screening or diagnostic evaluation prior to discharge				N Improvement
	1 on 1 collaboration with IDPH	1 on 1 collaboration with IDPH	Longitudinal data analysis				N Improvement
			Consistent data submission and monthly audits				N Improvement
			At risk populations? 2nd point of contact?				N Improvement
	Virtual Site Visit	Virtual Site Visit	IDPH initiation of VSV				N Improvement
			Discussion with Perinatal Network Administrator				N Improvement

Legend

Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data
1 - Very difficult to implement	1 - Not possible due to resources	Please enter first and last name of individual responsible for action plan and implementation	Current performance score as shown on most recent quarterly report.	Performance score as shown on next quarterly report to show percent decrease, improvement or stagnation.
2 - Difficult to implement	2 - Too many resources needed			
3 - Somewhat difficult to implement	3 - Many Resources Needed			
4 - Easy to implement	4 - Some resources needed			
5 - Very easy to implement	5 - Little resources needed			

Hearing Screening Performance Countermeasure matrix -Refer Rate Goal

Gabrielle Stires | June 30, 2021

Measure	Intervention Level	Specific actions	Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data	
Out of Compliance Performance	Self-guided implementation of EMDI tools	Self-guided implementation of EMDI tools	All screeners complete NHSTC (JCIH 2019 edition)					
			Equipment maintenance and calibration per manufacturer's guidance					
			Complete Nurse Manager checklist					
	1 on 1 collaboration with IDPH	1 on 1 collaboration with IDPH	Consistent data submissions of both inpatient screenings					
			HiTrack training of hospital monitoring of infant record review					
			Longitudinal data analysis					
	Virtual Site Visit	Virtual Site Visit	Analysis of patient-level screening submissions					
			IDPH initiation of VSV					
			Discussion with Perinatal Network Administrator					

Legend

Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data
1 - Very difficult to implement	1 - Not possible due to resources	Please enter first and last name of individual responsible for action plan and implementation	Current performance score as shown on most recent quarterly report.	Performance score as shown on next quarterly report to show percent decrease, improvement or stagnation.
2 - Difficult to implement	2 - Too many resources needed			
3 - Somewhat difficult to implement	3 - Many Resources Needed			
4 - Easy to implement	4 - Some resources needed			
5 - Very easy to implement	5 - Little resources needed			

Screening Performance Countermeasure matrix -Screening Goal

Gabrielle Stires | June 30, 2021

Measure	Intervention Level	Specific actions	Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data	
Out of Compliance Performance	Self-guided implementation of EMDI tools	Self-guided implementation of EMDI tools	All screeners complete NHSTC (JCIH 2019 edition)					
			Establish equipment back up strategy and replacement plan					
			Equipment maintenance and calibration per manufacturer's guidance					
	1 on 1 collaboration with IDPH	1 on 1 collaboration with IDPH	Complete Nurse Manager checklist					
			Consistent data submissions and monthly audits					
			Longitudinal data analysis					
	Virtual Site Visit	Virtual Site Visit	Review outpatient screening protocol and appointment scheduling process					
			IDPH initiation of VSV					
			Discussion with Perinatal Network Administrator					

Legend

Feasibility	Resources Needed	Lead Staff	Baseline	Next Quarter Data
1 - Very difficult to implement	1 - Not possible due to resources	Please enter first and last name of individual responsible for action plan and implementation	Current performance score as shown on most recent quarterly report.	Performance score as shown on next quarterly report to show percent decrease, improvement or stagnation.
2 - Difficult to implement	2 - Too many resources needed			
3 - Somewhat difficult to implement	3 - Many Resources Needed			
4 - Easy to implement	4 - Some resources needed			
5 - Very easy to implement	5 - Little resources needed			

Screening Remediation Plan Decision matrix

Gabrielle Stires | June 30, 2021

Process overview



Decision analysis

Decision to be made: Steps for hospital remediation

	Self-guided implementation of EMDI tools (enter date initiated)	1 on 1 collaboration with IDPH (enter date initiated)	Virtual Site Visit (enter date initiated)
Does not meet Screening goal			
Does not meet Screening No Later than 1 Mo goal			
Does not meet Refer Rate goal			
Does not meet Or No Later than 3 mo goal			
Does not meet LTF			

QUESTIONS?



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