

# **Quality Improvement in Action**

# Implementation of Medical Home report to reduce Early Hearing Detection and Intervention loss to follow-up



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### **AIM Statement (Goal)**

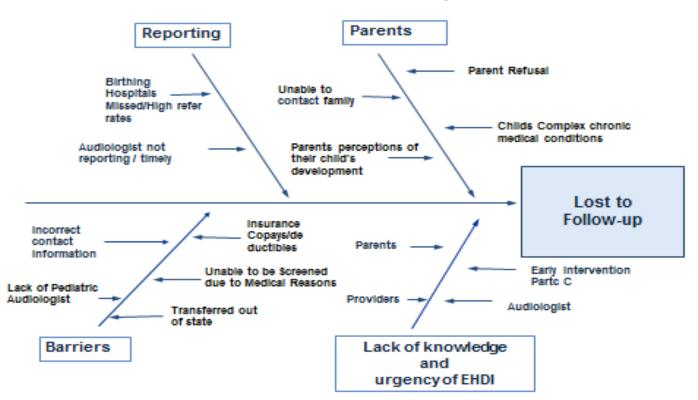
The aim of this QI project is to improve follow-up after a Newborn Hearing Screening in accordance with the EHDI benchmarks. Our goal is to reduce loss to follow-up from 22% to 7% by April 2015.

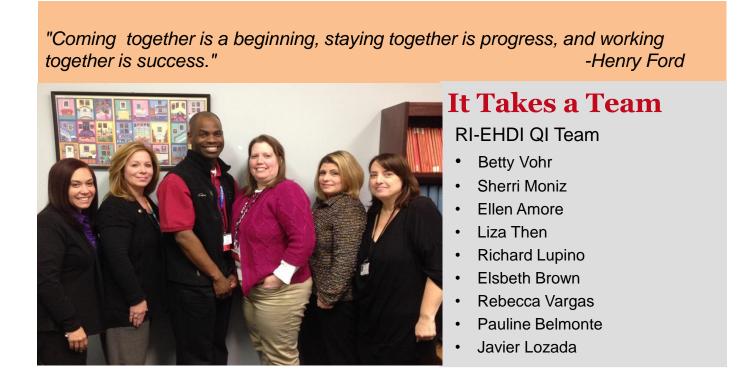
### **Improvement Theory**

The RI EHDI QI team seeks to answer the following:

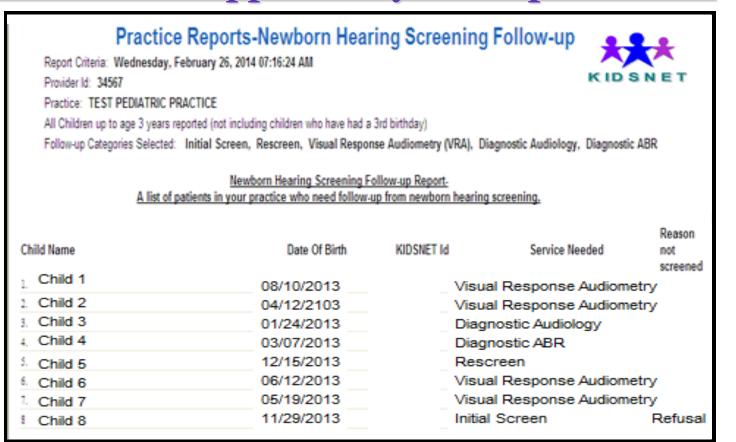
- 1. Will the use of a PCP report assist RI EHDI with follow-up after a newborn hearing screening?
- 2. If a parent consultant is given scripts and clear guidance on how and when to follow up with families who need hearing appointments, will more families schedule and keep their needed appointments?
- 3. Is the PCP report a useful tool for EHDI follow-up in the Medical Home?
- 4. Will the use of the PCP report in the medical home assist primary care providers to actively be involved in the EHDI system?

#### CAUSES for Loss to Follow-up in RI





### **PLAN: Find Opportunity for Improvement**



The Rhode Island EHDI program continues to explore different approaches to move children born in the state through the EHDI system in a timely manner.

RI EHDI understands that a strong Medical Home involvement is an essential component for an effective EHDI system. A medical home begins in a primary healthcare setting that is focused on the families' needs.

Since RI EHDI data is integrated with other children's preventive health data in an information system, it created an opportunity for the Rhode Island EHDI program to create reports of children in every medical home, who are in need of newborn hearing screening follow-up.

When selecting a quality improvement (QI) project, the EHDI QI team set out to decrease the number of infants lost to follow-up by utilizing a newly developed Primary Care Provider Report in the Medical Home.

# **DO: Test the 'Theory for Improvement'**

#### Different Strategies for implementing a Primary Care Provider (PCP) report

	Practice A	Practice B	Practice C
	Have a parent consultant	Ask an identified	Mail the PCP report with
Plan	use PCP report and	medical staff person to	cover letter to a similar
	follow-up form to call	use PCP report to	size primary care practice
	families for EHDI follow-	follow-up with patients	to use for follow-up
	up	in their practice using	purposes
		the PCP report	
Do	Review EHDI goals with	Educate dedicated	Report was mailed to the
	designated parent	nurse manager on EHDI	practice with a cover
	consultant; introduce PCP	goals; introduce PCP	letter explaining the
	report; and instructed the	report	purpose of report as wel
	use of developed follow-		as the importance of
	up form		EHDI
Study	No children followed up	There were 4 out of 10	Follow-up complete on 2
	out of the 6 children on	children in the report	out of 4 children on the
	the report	who received follow-	report
		up	

## **STUDY: Analyze Results**

#### **Examination of PCP report from September 1, 2014**

All Practices				
	Need Follow-	Received Follow-up after	Prior to	Received No Follow
	ир	Sept 1st	September	up
Initial Screen	12	9 (75%)	n/a	3 (25%)
Re-screen	13	10 (77%)	n/a	3 (25%)
Diagnosis	41	16 (39%)	1	25 (63%)
VRA ("At Risk")	361	100 (28%)	19 (19%)	261 (78%)
Tatal	427	425 (220/)	20 (20%)	202 (59%)
Total	427	135 (32%)	20 (20%)	292 (68%)

By February (5 months later) 135 out of the 427 children (32%) on the report received the recommended follow-up.

### **ACT: Adopt, Adapt, or Abandon?**

Next steps for the EHDI QI Team to **Adapt** are the following:

- Collect reasons why infant did not return follow-up
- > Collect any additional contact information
- Continue to support and provide additional training to parent consultant and dedicated medical staff
- Train Primary Care Providers to run their own reports monthly instead of mailing quarterly reports

#### **Lessons Learned**

- ➤ Just in time EHDI 1,3,6 awareness is the first step in improving lost to follow-up
- Very small numbers make it difficult to quantify effectiveness of QI change activity
- Difficult to correlate the data directly back to the PCP report
- Communication and providing feedback to medical home staff regarding following-up are essential tools in ongoing improvement

Thanks to RI EHDI QI Team Members and all Points-of-Contact!