A Collaborative Approach to Improving Data Collection for 1-3-6
Disclaimer

While the information in this presentation in no way proprietary, the project was implemented with CDC funds and the technology is therefore accessible to others. We know that what works for one state may not for another but these are merely lessons we learned while making system changes (still in process) that led to improved collaboration and increased data integrity . . . however, we gladly solicit suggestions!
Oregon EHDI Needs a Remodel

- Not sustainable—“renting system”
- Ineffective data
- Manual data entry burden
- Process confusion
- Negative stakeholder feedback

Oregon School for the Deaf
Extreme Makeover
The Fax-Back System
Bouncing back to EHDI
Finding the compelling story

- Reframed “problem” around children’s needs
- Tailored to stakeholder perspective
- Joint effort

*The secret is to gang up on the problem, rather than each other*” – Thomas Stallkamp
Case Example: Need for Oversight of EI referrals
Increased Oversight of EI referrals
Survey before the bulldozing

- Met with many potential partners
- Piloted data system
- Pre and post survey
- Cost/benefit analysis
- Approval for Evaluation/Data Coordinator position
Early Hearing Detection and Intervention (EHDI) Program – Current Process

By One Month

Baby is born → 1st Hearing Screen → Baby Passes “Test” → Matching report sent to each hospital for missing baby information (hearing results or missing baby)

Baby passes “Test” → 2nd Hearing Screen → Baby Passes “Test” → Hospital checks for records → Matching report run against Vital Statistics to check for babies missing in HiTrack → Baby information imported into HiTrack

Baby fails → Data entered in Logbook → Electronic file sent to DHS EHDI Program → Baby Failed Screening Results

Parents schedule ABR at diagnostic facility → Baby Passed “Test” → Diagnostic Test given to baby

Data entered into EMR (other system) → EHDI form manually filled out by audiologists → Information faxed to EHDI → Hard copy of diagnostic form filed → Baby Failed

By Three Months

Letters generated for Follow-up → Baby Failed Screening Results

By Six Months

Support staff manually tracks follow-up calendar for 6 month mark flag → Baby Failed

EHDI manually fills out EI referral → EI referral faxed → EI manually fills out enrollment form → EI faxes EHDI form → EI referral manually entered into HiTrack notes section → EI referral manually entered into Excel spreadsheet
EHDI Data and Patient Information Management

Then a miracle occurs

Start

out

Does this look familiar?
All pilot hospitals reported improved ease of use and reduction in data entry from 6.6 to 1.4 minutes per record.
## Cost comparison

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You can’t know what is behind the bus before the big reveal

- Set expectations high even if unsure how to meet them
- Collaboration comes with compromise
- Expect unexpected issues
  - Internal resistance
  - Difficulty actually communicating the switch
  - Legislation issues with data elements
Owning a one room Bungalow can be more beneficial than renting a Mansion

- Self reliance and Sustainability
- Sacrificed data elements but clean
- Increased responsibility but also increased understanding
Avoid having the engineer do the interior decorating

- Used another program’s developer
- Recruited specialized data skills “in-house”
- Contracted out projects
- Increased efficiency

Many ideas grow better when transplanted into another mind than the one where they sprang up.’
— Oliver Wendell Holmes
Don’t paint the house fuchsia

- Ability to blend easily
- Data consistency
- Build slowly with a solid foundation
Future collaborations

• Incorporating PCP/ENT’s into system
• Linking Results with Immunizations
• Automating follow up processes and prompting facility FU
• Geographical Mapping and “Zoning”
“If you want to build a ship, don’t drum up people together to collect wood and don’t assign them tasks and work, but rather teach them to long for the endless immensity of the sea”

--Antoine de Saint-Exupery

Thank you

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Acknowledgements

- Patricia Yao & Dina Dickerson, OFH Informatics Unit
- Matt Navarre, Developer Filemaker Pro
- Oregon EHDI Team
- Oregon EHDI Advisory Board
Questions, Answers, or Suggestions...?