THE REAL PAPER REDUCTION ACT

TRANSITIONING TO ELECTRONIC HEALTH INFORMATION EXCHANGE

EHDI National Conference | March 20, 2018

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OBJECTIVES

- Describe the reporting dilemma
- Describe the benefits of transitioning to Health Information Exchange (HIE)
- Demonstrate the ways that HIE has improve work processes, communication and data
- Determine if HIE is a good fit for your program

FACTS ABOUT OREGON EHDI

- Demographics
  - 45,000+ births a year
  - Newborn Hearing Screening Mandated since 2000
- Reporting requirements
  - 5 days to report birth certificate
  - 10 days to report hearing screening results
- Multiple reporting methods
  - Birth Certificate Registry
  - Hospital's Electronic Health Record (EHR)
  - EHDI-Information System (EHDI-IS) FileMaker
  - Paper reporting form
  - Secure email

KEEP PORTLAND HEARed

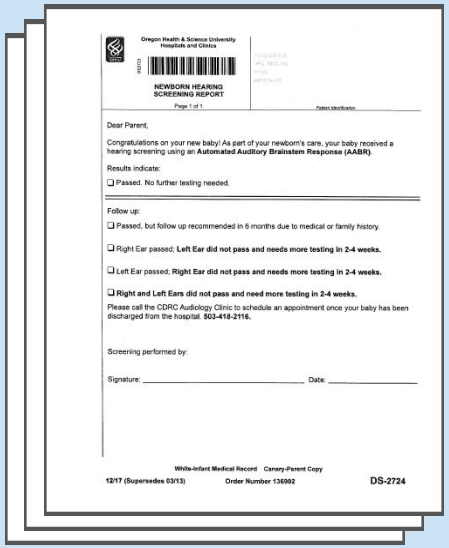
OREGON HEALTH & SCIENCE UNIVERSITY (OHSU)

- Oregon's only academic health center
- Third largest birthing hospital, average 50 births a week
- Level 4 NICU/highest acuity, receive transfers from WA, OR, ID, CA
- AABR for Well-Baby and NICU

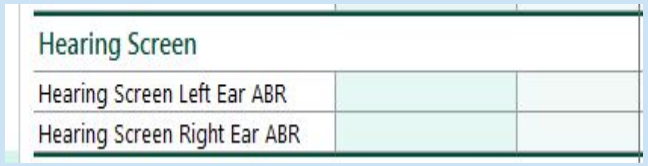
REPORTING IN MULTIPLE DATA SYSTEMS

EHR

Multi-Copy Form

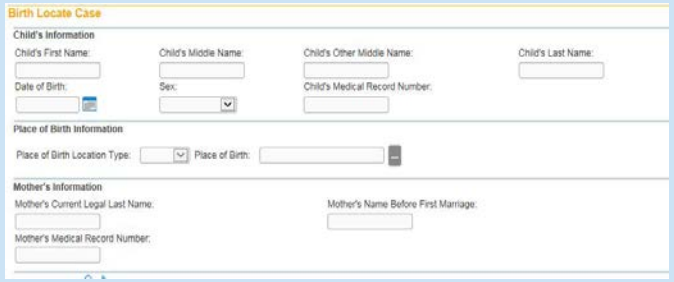


EHR Flowsheet

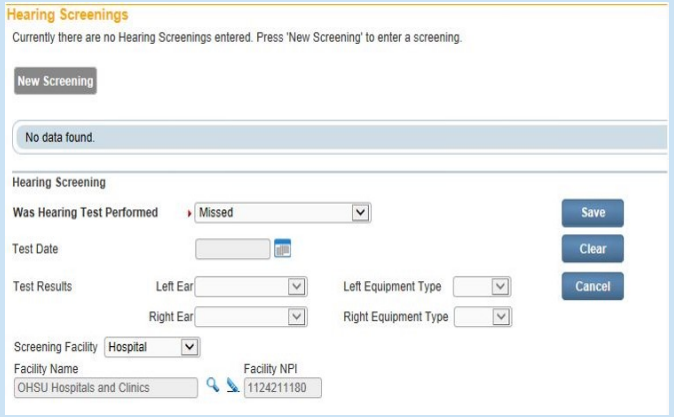


Birth Certificate Registry

Locate Birth

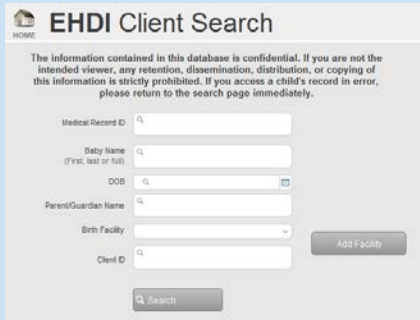


Enter Hearing Screening Results



EHDI-IS (FileMaker)

Locate Birth



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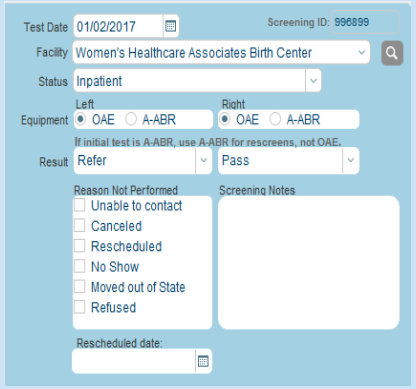
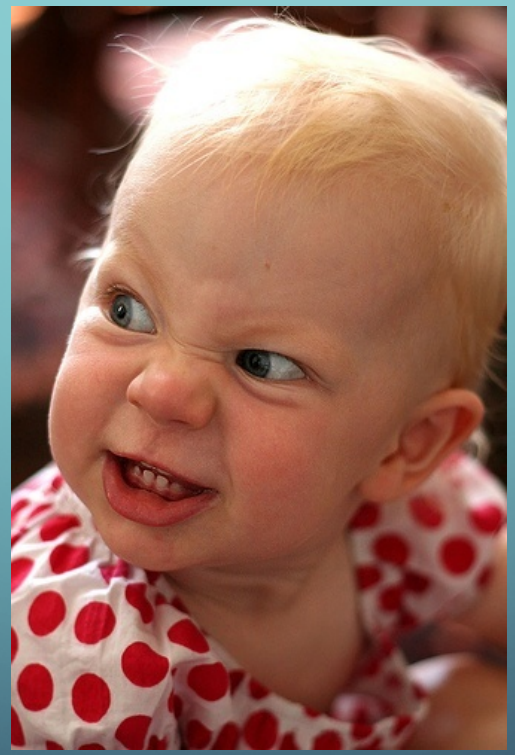


JUST SOME OF THE REPORTING ISSUES…..

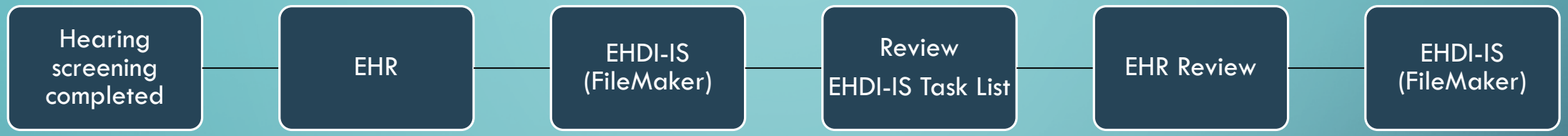
- No sheet of paper = no baby = delayed reporting
- Paperwork with mother's information rather than baby
- Birth certificate-transpose MRN numbers or wrong DOB
- Adoptions/Surrogate = babies not in birth certificate registry-issued different kind of birth certificate
- Birth certificate not entered, cannot enter screening results
- Transfer babies have different names in EHDI-IS (FileMaker) than EHR
- Birth/Transfer hospital not completed birth certificate, couldn't report results

MOMENTS OF SHARING



MEUY HAPPENED

STREAMLINED WORKFLOW FOR OHSU

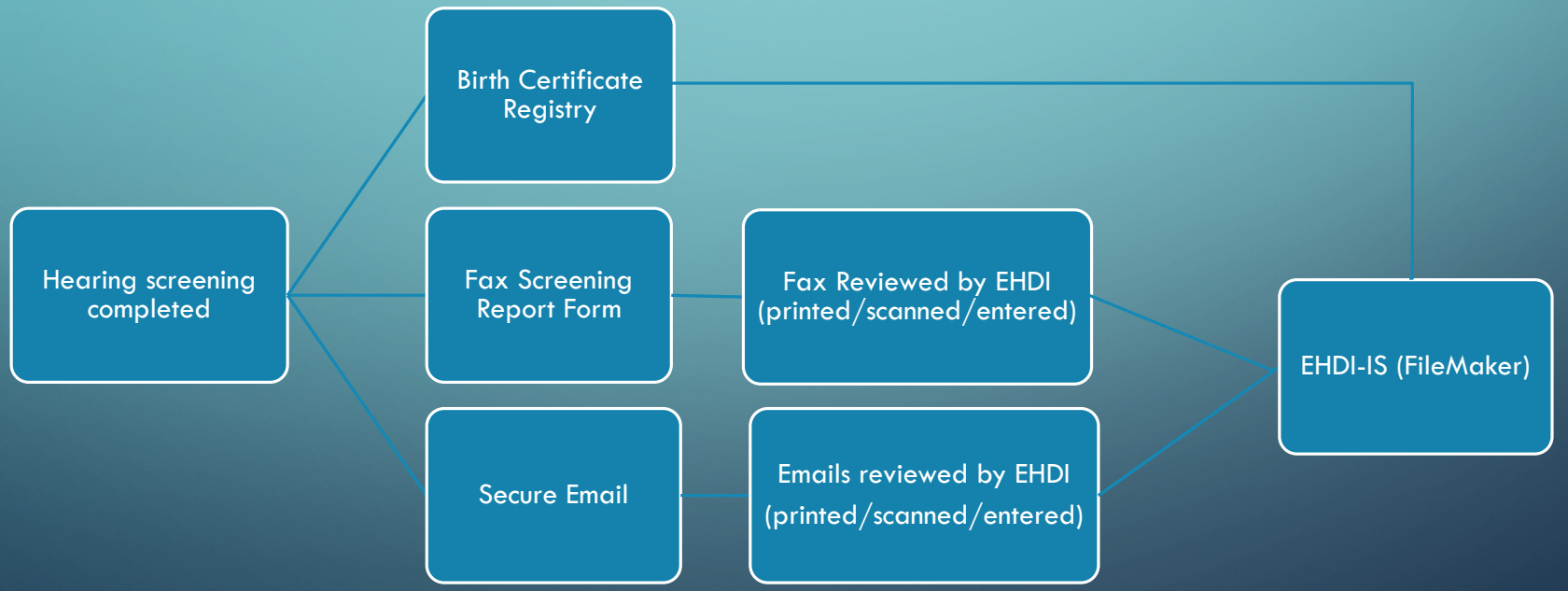


REPORTING ISSUES FOR EHDI

- Different reporting methods = delayed reporting and data errors
- Limitations on access to the birth certificate for birthing hospital
  - Transfers
  - Adoptions/Surrogate-babies
  - Home births
- Duplicate records in EHDI-IS (FileMaker)
  - No birth certificate
  - Names are different

DUAL WORKFLOW FOR EHDI

Hearing screening completed → EHR → EHDI-IS (FileMaker)



BENEFITS OF TRANSITIONING TO HIE

- Efficiency
- Optimize timeliness of reporting
- Completeness of data
- Sustainability
- Centralized communication and Quality Assurance reports

BENEFITS OF TRANSITIONING TO HIE

- Use of national standards for electronic reporting
  - Health Level Seven message type (ex. HL7 v2.6 ORU^R01)
  - LOINC and SNOMED-CT (ex. 183924009^Refer^SCT)
- Financial Incentives to the hospital
  - Stage 2 (Eligible Providers and Professionals)
  - Stage 3 (Public Health Meaningful Objectives)
- CMS 90/10 Matching funding opportunities for the state EHDI Program

HIE CAN IMPROVE WORK PROCESSES, COMMUNICATION AND DATA

OHSU/EHR sends HL7 messages

EHDI receives HL7 messages

EHDI-IS serves as a centralized hub to facilitate faster communication to partners, families, and providers.	
Actions	Results
Automated tasks • Confirm final status • Identify babies without screening results	• Eliminates fax and emails • Eliminates chart review for hospital
Hospital reviews No-match report	Resolves errors such as MRN or name
Obtain and review Hospital Summary report	Provides quick review of hospital stats (births, screened, #refers, # hearing loss)
Improve communication between Audiologists, hospitals, and early intervention, Guide by Your Side, Public Health Nurses	Streamlines communication for all providers in care of child

IS HIE A GOOD FIT FOR YOUR PROGRAM?

- Cost of Interface for EHR software ($5000)
- IT staff support required at hospital and EHDI Program
- Determine if electronic HIE setup exists that you can mirror (i.e. Immunization, Lab, Communicable disease reporting)
- If trying to meet Public Health Meaningful Use Objectives
  - Financial incentives available to hospital from Centers for Medicaid and Medicare Services (CMS)

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QUESTIONS

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Please check out our posters:
#10 "Collect and Match: The Essentials to a Functional Data Wardrobe"
#25 "Informatics Project: Electronic Health Information Exchange for Diagnostic Audiology"