



Use Case Title: Vital Records Birth Reporting

Overview: Philip, a premature baby is born with a congenital heart condition. After discharge, the newborn is seen for follow up care at a pediatrician with a cardiac specialty. The birth report is sent to the jurisdiction of birth, patient’s residence, and NCHS. Birth defects are reported from the birth record and pediatric follow-up.

Value: For Public Health, this enables collection of higher quality standard data for demographic, epidemiologic surveillance and research in a more timely and efficient manner from the provider. Access to coded electronic birth information in near-real-time improves integration with other stakeholder electronic systems (e.g. Birth Defects Registry, Epidemiology systems). This further promotes consistent statistics between jurisdictions and the national vital records offices, improving the ability to measure the health of the population, detect issues, and support early interventions. For providers/EMR Systems, this enables efficient birth reporting through re-use of clinical information already available in the EMR, minimizes the costs, and reduces custom interfaces.

Scheduled times: Tuesday: 10-10:30
 Tuesday 1-1:30
 Wednesday 1-1:30

VIP Tour: Tuesday 1:30-2



Scenario	Vendor	Products	Standards
<p>Step 1: Hospital of Birth</p> <p>Philip is diagnosed with a congenital heart defect, “Tetralogy of Fallot with Pulmonary Atresia”. The he will go to surgery the first day of life for the Pulmonary Atresia, and will need subsequent surgeries during his first year. The birth information is submitted to the jurisdiction vital records, leveraging the clinical information from the labor and delivery summary.</p>	Epic		IHE BFDRE IHE RFD

Scenario	Vendor	Products	Standards
<p>Step 2: Pediatric Cardiologist</p> <p>Following discharge, the patient is seen for follow-up and ongoing care by a Pediatric Cardiologist. The provider assesses the patient's status, to determine whether Philip is growing, eating well, and sleeping well. The mother reports that the baby is fussy and crying a lot. Routine Echocardiogram and chest x-rays are included in the care plan.</p>			IHE XDR HL7 CCDA
<p>Step 3: Vital Records: Electronic Birth Registration System</p> <p>The jurisdiction receives the birth report from the hospital, and sends the birth information to the National Center for Health Statistics (NCHS), and to the Utah Department of Health where the Philip's family resides. Birth information is also sent to the birth defects registry.</p>	Genesis Systems		IHE BFDRE IHE RFD
<p>Step 4: Vital Records: Jurisdiction of Residence</p> <p>The jurisdiction of residence receives standard birth information from the jurisdiction of birth as part of the Inter-state exchange agreements.</p>	Utah DOH (CDC)		BFDRE (BFDRFeed)
<p>Step 5: National Vital Statistics</p> <p>The National Center for Health Statistics (NCHS) receives standardized birth information from the state jurisdictions. Standard coding is applied and returned to the jurisdictions. National statistic for birth defects and other conditions are analyzed to assess the health of the nation.</p>	CDC/ NCHS		BFDRE (BFDRFeed)
<p>Step 6: Public Health Birth Defects Registry</p> <p>The Birth Defects Registry is able to establish the initial record for the registry from the birth information, and updated information from the Pediatric Cardiologist during subsequent visits.</p>	Michigan DOH (CDC)		XDR CCDA BFDRE (BFDRFeed)

Data exchange standards:

- **IHE IT Infrastructure Technical Framework:**
 - **Profile for Retrieve Form for Data Capture (RFD)**
 - **Profile for Cross-enterprise Document Reliable Interchange (XDR)**
 - (Online at http://ihe.net/uploadedFiles/Documents/ITI/IHE_ITI_TF_Vol2b.pdf)
- **IHE QRPH Profile for Birth and Fetal Death Reporting Enhanced (BFDRE)** (Online at https://www.ihe.net/uploadedFiles/Documents/QRPH/IHE_QRPH_Suppl_BFDRE.pdf)
- **HL7 Implementation Guide for CDA® Release 2: IHE Health Story Consolidation, Release 1.1 - US Realm (HL7 C-CDA R1.1)** (online at http://www.hl7.org/implement/standards/product_brief.cfm?product_id=258) and associated MU companion guide: http://www.hl7.org/implement/standards/product_brief.cfm?product_id=374)