Presentations to ONC HIT Policy Committee on Meaningful Use
eVitals Standards

Delton Atkinson
Deputy Director, Division of Vital Statistics
Centers for Disease Control and Prevention (CDC)
National Center for Health Statistics (NCHS)

Michelle Williamson
Senior Health Informatics Scientist (CDC/NCHS)
Classifications and Public Health Data Standards Staff

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National Center for Health Statistics
eVitals Initiative: Goal

Develop national standards to facilitate the national exchange of birth, death and fetal death records between electronic health record systems and state vital statistics systems.
Why the eVitals Initiative?

- A significant number of data items for Vital Registration are captured in medical records for the:
  - U.S. Standard Certificate of Live Birth
  - U.S. Standard Certificate of Death
  - U.S. Standard Report of Fetal Death

- Medical Records have been identified as the preferred source to obtain medical and health data

- Believe that there can be improvement in timeliness and quality of the information completed
Medical and Health Information Captured for the U.S. Standard Certificate of Live Birth

Prenatal Care
- Visit Information
- Past pregnancies

Risk Factors
- Medical Conditions (DM, HTN)
- Infertility Treatment
- Previous C-Section

Labor & Delivery
- Onset of Labor
- Method of Delivery
- Maternal Morbidity

Newborn
- Birth weight
- Abnormal Conditions
- Congenital Anomalies
Developing eVitals Standards to Support Capturing VR Data at the Point of Care or Contact
eVitals Standards Development Timeline

2007:
- CDC/NCHS Call to develop VR Standards for EHRs
- Vital Statistics Standards Committee Formed

2008:
- Developed HL7 VR Domain Analysis Model

2009:
- Developed HL7 VR Functional Profile
- Developed IHE Birth and Fetal Death Content Profile

2010:
- Developed HL7 V2.5.1 Implementation Guides (IG) for Birth, Death and Fetal Death Reporting

2011:
- Developed HL7 CDA IGs for Birth, Death and Fetal Death Reporting
eVitals Standards MU Readiness Assessment

- **Stakeholder Engagement**
  
  - Collaborating with the National Association for Public Health Statistics and Information Systems (NAPHSIS) and individual states/jurisdictions to support standards development activities
  
  - Participation in National Standards and Standards related activities
    
    - Health Level Seven International (HL7)
    - Integrating the Healthcare Enterprise (IHE)
      
      - IHE 2011 and 2012 Connectathon
      - Healthcare Information Management and Systems Society (HIMSS) 2011 and 2012 Interoperability Demonstrations
eVitals Standards MU Readiness Assessment

- **Availability of National Standards**
  - ✓ Modeling
    - HL7 Vital Records Domain Analysis Model
  - ✓ Functional Requirements
    - HL7 Electronic Health Record System (EHR-S) FM Vital Records (VR) Functional Profile
  - ✓ Messaging Standards
    - HL7 V2.5.1 and CDA Draft Standards for Trial Use (DSTU) for Birth, Death and Fetal Death Reporting

- **Certification Criteria**
  - Plans to reach out to the certification bodies in late 2012/2013 to explore the potential for developing VR certification criteria based on the HL7 EHR-S VR Functional Profile
eVitals Standards MU Readiness Assessment

- **Pilot Implementations**
  - Beginning in late 2012 pending funding availability
    - One State Department of Health
      - Sending test EHR birth data to State Vital Records using HL7 CDA based standards
    - A Second Department of Health
      - Sending test EHR death data to State Vital Records using HL7 V2.5.1 Death Reporting Implementation Guide
Barriers to eVitals Standards Development and Implementation

- States/Jurisdictions legally responsible for the registration of vital events concerned about the accuracy and quality of data received via EHRs

- Funding to support states/jurisdictions adoption of eVitals Standards

- EHR Vendors Adoption of eVitals Standards and Incorporation in their Product Development

- VR System Vendors Readiness to Receive VR data using National Standard Formats
Strategy for Success for eVitals Standards

- Utilizing the existing infrastructure and collaboration between CDC/NCHS and NAPHSIS to facilitate education, training, standards development and pilot implementations using eVitals Standards

- Funding support for states/jurisdictions to participate in pilot implementations during trial implementation period and provide feedback to enrich draft standards

- Ongoing participation in national standards development activities to ensure that standards adhere to national VR standards requirements
Impact of eVitals Standards and VR Implementation

- Support from national standards development and standards related organizations including some international interest

- Engagement from EHR and VR systems developers in eVitals standards development and implementation

- Solicitation for more education and information on eVitals Standards Initiative by VR states/jurisdictions

- Plans for pilot projects and future standards development activities

- Impact on cost, quality and timeliness of data to be determined
Contact Information

- Delton Atkinson, MPH, PMP
  Deputy Director, Division of Vital Statistics
  Centers for Disease Control and Prevention (CDC)
  National Center for Health Statistics (NCHS)
  Email: datkinson@cdc.gov

- Michelle Williamson, MSIS, RN
  Senior Health Informatics Scientist (CDC/NCHS)
  Classifications and Public Health Data Standards Staff
  Email: mwilliamson@cdc.gov