Joint Public Health Forum & CDC Nationwide

How to submit or ask questions for the panel members?

Submit or Ask Questions

• Submit your text question and comments using the Question Panel

• Please raise your hand to be unmuted for verbal questions.
Improving Clinical Care and Public Health with Electronic Case Reporting

CDC EHR Vendor Collaboration Webinar
January 17, 2016
What is the Digital Bridge?

• Designed to improve health through better information flow between public health and health care
• Goal: identify a consistent, nationwide, and sustainable approach to using health care’s EHR data to improve public health surveillance
• Includes representatives from public health, health care delivery systems, and health IT (EHR) vendors
• Funded by the Robert Wood Johnson Foundation
• Project Office: Deloitte Consulting and the Public Health Informatics Institute
• Governance body chaired by Dr. John Lumpkin (RWJF)
• Initial focus: electronic case reporting (eCR)
Governance Body Members

**Governance Body**
- Care Delivery Networks: HealthPartners, Kaiser Permanente, Partners Healthcare, UNMC
- Public Health: APHL, ASTHO, CDC, CSTE, NACCHO
- EHR Systems: Allscripts, Cerner, eClinical Works, Epic, Meditech

**Project Management**
- Project Director
- Communications Director
- Communications Specialist
- Analyst

**Ex Officio Members**
- Co-Principal Investigators
- CDC Rep
- ONC Rep

**Interim Governance Chair**
Organizational Structure

Governance Body
- Governance Chair (John Lumpkin – Initial)

Ex Officio Members
- Co-Principal Investigators
- CDC Rep
- ONC Rep

Program Management
- Project Director
- Project Manager
- Communications Director
- Logistics Coordinator
- Financial Admin
- Communications Specialist

Requirements Workgroup
- Requirements Chair
  - Care Delivery Networks
  - Public Health
  - Vendor

Technical Workgroup
- Technical Chair
  - Care Delivery Networks
  - Public Health
  - Vendor

Sustainability Workgroup
- Sustainability Chair
  - Care Delivery Networks
  - Public Health
  - Vendor

Legal/Policy/Regulatory Workgroup
- Legal/Policy/Regulatory Chair
  - Care Delivery Networks
  - Public Health
  - Vendor
eCR Project Timeline

**Governance**
- Coordinate Workgroups (WGs) and Engage Stakeholders
  - Charter
  - Communications Plan
  - Identify New Use Cases
  - Refine Charter
  - Develop Project Plan
  - Evolve, Extend Information Exchange Capabilities

**Requirements WG**
- Ongoing Curation of Functional Requirements
  - Functional Requirements Refined
  - Document Lessons Learned
- Bus. Process Matrix
- Task Flow Diagram & Requirements Statements

**Technical Arch WG**
- Provide Technical Guidance and Monitor eCR Implementations
  - Technical Arch Diagram
  - Narrative Description & Trigger Sequence Diagram

**Sustainability WG**
- Articulate Business Case for eCR
  - Site Application/Criteria Defined
  - Preliminary Sustainability Plan
  - Measure Success
  - Sustainability Plan

**Legal and Regulatory WG**
- Articulate Business Case for eCR
  - Assessment of eCR Implementation
  - Model BAAs, DUAs
  - Recommendations

**eCR Implementations**
- Sites Selected
- Declare MU eCR Readiness
- Onboard eCRs
- MU eCR Deadline

**2018 and beyond**
- Ongoing Submission of ECRs

REV 12/7/16
Electronic Case Reporting (eCR)
The automated generation and transmission of case reports from the electronic health record (EHR) to public health agencies for review and action.
Value of Electronic Case Reporting (eCR)

• More complete, accurate data in real time for action
• Early detection of cases allows
  • Earlier intervention
  • Diminished transmission of disease
• Improves detection of outbreaks
• Responds directly to local and state partner needs
• Diminishes burden on healthcare provider to report
• Directly links health care to population health
**eCR Process (High Level)**

**Health Care**
- Import Trigger Criteria
- Provide Patient Care
- Match Trigger Criteria
- Send Case Report
- Follow-Up Activity

**Decision Support (AIMS/RCKMS)**
- Provide Trigger Criteria
- Compare to Reporting Criteria
- Match Reporting Criteria
- Send Case Report
- Send Response

**Public Health**
- Define Reporting Criteria
- Process Case Report
- Send Response
Digital Bridge eCR Approach
Digital Bridge eCR Approach

• An interoperable, scalable, and multi-jurisdictional approach to eCR.

• Not a new technology product. The Digital Bridge approach is based on existing eCR tools and standards, and seeks to support their development and adoption.

• eCR is incorporated into the EHR as a background operation requiring little or no effort on the part of the clinical end user.

• The approach will be tested through at least five implementation sites in 2017.

• The implementation sites’ technical solution will remain EHR vendor-agnostic so that any vendor can adopt the solution and pass on this functionality to their clients.
Benefits to This Approach

• A unified approach to information exchange will ease the burden and costs for all stakeholder groups.

• Advances greater consistency across public health and health care interoperability cases.

• Lays the foundation for greater bidirectional exchange of data between health care and public health so that clinicians can be more easily informed, and collaborate with public health during outbreaks.

• Bidirectional data exchange can eventually encompass non-communicable diseases.
Workgroup Activities
Workgroup Activities

• The requirements workgroup is charged with defining functional requirements for eCR. The group has completed the business process matrix and the task flow diagram.

• Using products developed by the requirements workgroup, the technical architecture workgroup is charged with defining the technical requirements for eCR. The technical architecture diagram and eICR trigger sequence diagram have been completed.

• The sustainability group is working to create a sustainability plan for eCR with a business model that supports the Digital Bridge approach. This workgroup has also developed criteria and an application for the implementation site selection process.

• The legal and regulatory workgroup will focus on legal issues that govern eCR implementation nationwide.
Stakeholder and Site Participation
Site Participation

• Five sites will be selected to implement the Digital Bridge eCR approach.

• Each site will be a combination of a health care delivery system, a health data provider (e.g., EHR vendor, HIE) and a public health agency.

• Sites will support five conditions initially: pertussis, gonorrhea, chlamydia, salmonellosis, and Zika.

• Site selection criteria and an application are available now at www.digitalbridge.us/implementationsites.
Site Participation

• Sites who partner with Digital Bridge will participate in eCR evaluations.

• Health care providers and vendors will provide in-kind contributions. Direct technical assistance for public health agencies is currently not available.

• Any public health agency participating in eCR outside of Digital Bridge is encouraged to continue to do so.
Stakeholder Participation

- We value the input of a diverse audience. Dialogue is encouraged with governance body representatives. Feedback and questions can also be sent to info@digitalbridge.us

- The Digital Bridge intends to be transparent. Products from workgroups will be posted on www.digitalbridge.us
Thank you!

For updates: www.digitalbridge.us
For questions and input: info@digitalbridge.us