The Office of the National Coordinator for Health Information Technology

ONC DOCENT TOUR

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CONNECT EHR Interoperability Special Interest Group Tour

To support secure and easy-to-implement health information exchange among physicians, patients, labs and pharmacies, the Federal Health Architecture's CONNECT open source software program created the Electronic Health Record Interoperability Special Interest Group (EHRI SIG). The EHRI SIG is working to ensure the interoperability requirements for EHR and related solutions are successfully incorporated into CONNECT as it continues to evolve to focus on the end-user experience. This tour's demonstrations will illustrate the work currently underway through the EHRI SIG.

Positive Impact of Multiple Input Devices for EHR Adoption

CONNECT

The CONNECT EHR Interoperability Special Interest Group (EHRI SIG) and RoverINK will demonstrate the result of an innovation prototype. This demonstration supports a complete usability framework for clinicians' that works the way they do by incorporating handwriting, keyboards, Tablets, iPads and dictation into electronic records. By incorporating clinicians' existing work flow, EHRs support the meaningful use of EHRs without impeding processes. The information collected from the multiple input devices are exportable XML to Natural Language Processor (NLP) and data coded to standards. Discreet data elements are generated, including free form notes to produce interoperable formats (CDA, C32). This demonstration will populate an NLP and enterprise content management system for easy health information analysis and document retrieval. This helps eliminate objections regarding the method of input allowing clinicians to continue in their personal work flow.

Continuity of Care in the Emergency Department

WakeMed Hospitals

In this demonstration, WakeMed Hospitals bridges the information gap between the WakeMed Emergency Department and those that provide care post-discharge using Axial Alerts. Axial Exchange provides a software solution aligned with CONNECT and other open source components. In working with the EHRI SIG as well as customers, Axial recognized the importance of delivering clinical summaries from the WakeMed Pediatric ER to local pediatricians. These summaries are not only designed to contain key clinical information, but also are designed to be viewable on most web browsers and smart phones. The importance of continuity of care is heightened in emergency department settings, as these visits are often unplanned. Without timely coordination with post-discharge providers, care is negatively impacted and the probability of return emergency department visits increase.

Open Source Behavioral Health Information Technology Architecture (OBHITA)

Substance Abuse and Mental Health Services Administration (SAMHSA)

This demonstration will illustrate the benefits of an Open Behavioral Health Information Technology Architecture (OBHITA) and its future integration with CONNECT. With OBHITA and CONNECT, Behavioral Health providers can improve outcomes and overall quality of care through seamless integration with primary care networks and statewide HIEs. The OBHITA project aims to achieve the following objectives; (a) share the artifacts produced under this contract with other Behavioral Health IT developers (b) establish a common platform for states to manage their safety-net services network, and (c) standardize data collection and sharing while maintaining compatibility with behavioral health-specific patient privacy regulations.

Interoperable PHR CONNECTs Cancer Patients, Providers and Payers

Rocky Mountain Health Plans (RMHP) and Denver Health Medical Center (DH)

This demonstration employs CONNECT to overcome the fragmented health information that jeopardizes chronically ill patients. The interoperable SmartPHR exchanges, consolidates and updates machine-readable continuity of care (CCR) data with multiple EHRs; enforces patient privacy preferences; and maintains anytime/anywhere privilege-suitable access for patients, EHR-deprived providers and data analysts via web-connected devices. First, an RMHP providers' EHR outputs a CCR after a patient encounter. Second, the SmartPHR retrieves and consolidates the CCR via CONNECT. Third, a Denver Health Medical Center oncologist accesses the SmartPHR and updates the cancer careplan. Last, the SmartPHR returns an updated CCR to the repository for import to authorized providers' EHRs.