CRISP State Designated Health Information Exchange (HIE)

April 27, 2012

CRISP Background

- Grew from a conversation between Erickson Living, Johns Hopkins Medicine, MedStar Health, and University of Maryland Medical System (UMMS) in 2006
- Participants collaborated on several pilot projects, and partnered with the MHCC to create a comprehensive plan for a statewide HIE
- In 2009 CRISP was incorporated as a not-for-profit membership organization, with the intention of building a statewide HIE, chartered to serve all Maryland providers and patients
- On April 6, 2010 CRISP received notice of grant award from ONC to becomes Maryland's REC

What is CRISP?

CRISP (Chesapeake Regional Information System for our Patients) is Maryland's statewide health information exchange (HIE) and Regional Extension Center (REC)

- Health Information Exchange, or HIE, allows clinical information to move electronically among disparate health information systems. The goal of HIE is to deliver the right health information to the right place at the right time—providing safer, more timely, efficient, effective, equitable, patient-centered care.
- Regional Extension Center (REC) is a program created by the ONC that is funded through the stimulus bill. RECs will offer technical, implementation, and educational assistance to facilitate providers' adoption and meaningful use of electronic medical records (EMRs).





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What is the CRISP HIE?

- Query Based HIE went live September 30, 2010 with 5 hospitals in Montgomery County
- CRISP HIE is predominately Hospital ADT and Clinical Content
- CRISP Portal access for Providers gives the ability to query the HIE contents and retrieve documents
- CRISP Direct will soon be piloting to determine how to incorporate into our Query Based HIE Infrastructure

CRISP Portal

- Physicians and support staff can query patients they are treating and view lab, radiology, and transcribed documents in the HIE for that patient
- Information obtained through the portal can be printed and incorporated into records

Types of data available: • Patient demographics

- Lab results
- Radiology reports
- Medication fill history
- Discharge summariesHistory and physicals
- Operative notes
- Consults

Connectivity Progress to Date—Key		
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Progress Metric	Result	
Live Hospitals	48 – All Hospitals	
Live Labs and Radiology Centers (Non-Hospitals)	5	
Live Clinical Data Feeds	52 (lab, rad, a clinical document feeds)	
Identities in MPI	~3M	
Active Users (log-in w/in past 60 days)	101	
Queries (past 30 days)	800	
ADT Available	~38M	
Lab Results Available	~ 9.2M	
Radiology Report Available	~ 2.7M	
Clinical Documents Available	~ 1.2M	
Opt-Outs	865	
As of March 31, 2012	8	

Transport Approaches

- Clinicians can **query** the exchange to find recent results for a patient
- Reports can be automatically **pushed** from one provider site to another (ex: lab results delivery, radiology report delivery)
- Clinicians can **subscribe** to a patient, and be alerted when a new result for their patient exists in the exchange

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• Secure email **pushed** using the Direct Standards







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Probabilistic matching proven in a range of geographies











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The MHCC's Policy Board has determined Maryland will be an opt out state for patient participation

Opt-Out and Protecting Privacy

- CRISP will operate patient consent based on an opt-out model
- Opt-out will be controlled *centrally* by the HIE, not at the provider sites
- Opt-out will be available through website, mail, fax, and phone
- CRISP will provide hospital registrars with patient education materials, opt-out forms, and training sessions on how to talk about HIE with patients





Direct Technology

- Direct Addresses
 - a.physician@direct.aclinic.org
 - An individual may have multiple Direct addresses
- Security & Trust Services
 - Each Direct Address must have at least one digital certificate associated with it in order to securely transmit and receive health information
- Direct Messages
 - Direct Messages are essentially email messages (RFC 5322)
 - Contents can be (and often are) structured, but can be unstructured: HL7 lab results, CCD, CCR, PDF, TIFF, text, IHE XDM specifications
- Message Transport & Delivery
 - Direct specifies Simple Mail Transport Protocol (SMTP) as its primary mechanism for delivering healthcare content from a sender to a receiver



 Provider Directories: The HISP may support certificate publication in a directory that is available to other HISPs

🚎 CRISP Direct Use Cases

In Patient

- Clinical: Notification of Admission delivery to the PCP
- Clinical: Discharge Summaries delivery to the PCP
- Operations: Medical Records Request (HIM Department) to Providers

Additional Use Cases

- Clinical: Admit/Discharge Summaries delivery to Payer's
- Clinical Hospital Clinical Summary to Payer's Care Coordination
- Operations: Patient Records Request to Hospital from Providers (Specialist)

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👗 CRISP Direct Use Cases

Out Patient

Clinical: PCP Referral to Specialist with Clinical Summary
Operations: Practice Fax Replacement – Provider to Provider Communications

Additional Use Cases

Clinical: Specialist Clinical Summary to PCP Referral

Questions?

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