

CSC

The Role of HIT and HIE in Transforming the Delivery System

Massachusetts Health Data Consortium
Annual Meeting

Greg DeBor
Client Partner, CSC

June 4, 2010
Boston, MA



NEHEN's Regional Vision for Health Information Technology and Health Information Exchange

- **Massachusetts has created one of the most mature, proven HIT/HIE infrastructures in the nation:**
 - Multi-stakeholder, non-profit and 12+ years in the making
 - Administrative and clinical
 - Payer, provider and public / private in nature
- **Three successive waves of state and federal focus and funding can now test and leverage our advanced infrastructure:**
 - The Recovery Act (ARRA/HITECH) and Chapter 305 (Massachusetts)
 - Seed money and requirements for State Level HIE, Regional Extension Centers and other HIT/HIE programs
 - Electronic health record incentives and requirements
 - Medicaid and Medicare “meaningful use” payments and Chapter 305 mandates
 - The Patient Protection and Affordable Care Act (“health care reform”) and expected Massachusetts payment reform
 - With multiple provisions requiring HIT/HIE support to be successful

NEHEN's Role in Helping Achieve Meaningful Use

- **Hospitals face 23 meaningful use requirements; “eligible physicians” face 25**
- **In total, the requirements imply up to 18 different HIE interactions**
- **Of these, 13 are or will be supported by NEHEN in 2010:**
 - ePrescribing, including support for:
 - Formulary checking
 - Managing active medication list
 - Managing medication allergy lists
 - Medication reconciliation
 - Insurance eligibility verification
 - Claims submission
 - Visit summary sharing
 - Exchanging key clinical information
 - Quality measure reporting
 - Submission to immunization registries
 - Reportable lab result submission to public health
 - Syndromic surveillance

Already in place

In progress for 2010

The Benefits of Meaningful Use and Health Information Exchange

- **Reduction in medical errors**
 - ePrescribing reduces errors, adverse events from drug interactions¹
 - CPOE reduces patient mortality²
- **Reduction in the cost of healthcare delivery**
 - Clinical referrals and collateral contacts are manual, labor-intensive processes which can be automated to save significant costs³
 - Discharge and encounter summaries reduce redundant lab tests
 - Referrals within your ACO/network keeps revenue local, incentives intact
 - Mandated reporting can be consolidated into a single channel
- **Improvement in patient loyalty and satisfaction**
 - Continuity of care is facilitated when automated with clinical information exchange
 - Fosters patient loyalty and likelihood to seek future care within the network

1. Ammenwerth E, Schnell-Inderst P, Machan C, Siebert U. **The effect of electronic prescribing on medication errors and adverse drug events: a systematic review.** *J Am Med Inform Assoc.* 2008 Sep-Oct;15(5):585-600. Epub 2008 Jun 25.
2. Christopher A. Longhurst, Layla Parast, Christy I. Sandborg, Eric Widen, Jill Sullivan, Jin S. Hahn, Christopher G. Dawes, and Paul J. Sharek **Decrease in Hospital-wide Mortality Rate After Implementation of a Commercially Sold Computerized Physician Order Entry System** *Pediatrics*, May 2010; doi:10.1542/peds.2009-3271
3. Jan Walker, Eric Pan, Douglas Johnston, Julia Adler-Milstein, David W. Bates, and Blackford Middleton **The Value Of Health Care Information Exchange And Interoperability** *HealthAffairs* 2005 19-Jan. <http://content.healthaffairs.org/cgi/content/full/hlthaff.w5.10/DC1> (Last visited 5/7/2010)

NEHEN Services for Health Information Exchange

- **NEHEN RxGateway**
 - Delivers scripts from your EMR to pharmacies and PBMs via SureScripts
 - Returns medication history, formulary and other information from SureScripts and other sources
- **NEHEN *DirectConnect* (40+ “large” payers, providers and aggregators) and NEHEN *Net* (150 “smaller” subscribers)**
 - Administrative simplification
 - Support for all “HIPAA” transactions, including claim status inquiry, remittances, referral submission and inquiry, etc.
 - Clinical health information exchange
 - CCD-based visit summaries – send and receive
 - Immunization reporting to Massachusetts Department of Public Health
 - Reporting syndromic surveillance, reportable lab results, health disparities data and immunizations to Boston Public Health Commission
 - CCD-based quality reporting to Massachusetts eHealth Collaborative
 - Additional features
 - Common participant/provider directory with message delivery preferences
 - Audit log for querying and tracking all disclosures
 - Summary results viewer

NEHEN's Long Term Role in Health Delivery Transformation

- **Administrative simplification and clinical exchange**
 - Continued leadership and support of all “HIPAA” and meaningful use messages
 - 5010 compliance and CORE adherence / certification
- **Meaningful use and HIE education and awareness**
 - Aligning clinical and organizational leadership around the importance of interoperable electronic health records, HIE and HIT in general
 - Assessing meaningful use and 5010 readiness
 - Helping provider organizations establish plans for achieving meaningful use
- **Alignment with state efforts and other public and private initiatives**
 - Massachusetts eHealth Institute
 - Greater Boston Quality Coalition (Beacon)
 - Including Eastern Massachusetts Healthcare Initiative, Massachusetts eHealth Collaborative, Massachusetts Health Quality Partners, Boston Public Health Commission and others
- **Strategies and solutions for care coordination and data sharing required for health care reform**
 - Focus on quality and other data measurement capabilities
 - Data transport to support ACOs, medical homes and payment reform