Delaware Public Health Strategic Vision, HIE and Other Activities

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Disclosure

No Relevant Commercial or Financial Interests to Disclose
Where do I begin?

The burning question of a public health CIO
CIO view of Public Health IT
It can’t be that hard.
More money than we can imagine

- ARRA
- HITECT
- CDC
- EPA
- ELC
- USDA
- State and Local Monies
But it is MY funding - Not Yours!
but I need some of “their” data!
Proven Technology
Is there a Plan?
The Beginning of a Vision
How different is the actual process?
Public Health – an IT View
Do epidemics know borders? Can we only get sick where we live?

- The goal is to deliver essential information about patients to authorized providers to assure appropriate safety and privacy.
  - Local
  - State
  - Regional
  - National
  - Global
Patient instead of Program

EMR, PHR, EHR, meaningful Use, EO 13355, 2014 population health, clinical health, patient-centric

What data do we have, where is it, how do we get it where it needs to be in the format that we are required to get it in. Are we eligible for funds? Who are our partners?
The Universal Problem
HIE Involvement

**Pros**
- Meets Stage 1 Meaningful Use
- Helps the population we need to serve
- Supports the vision and goal of interoperability
- Can funnel funds into critical projects
- Modernize clinical information systems
- Ties Public Health to the providers as a partner not just a “requirement”.
- Client specific versus program specific - data goes with the client

**Cons**
- Not enough resources
- Many other competing project with distinct grant deliverables that do not coincide with HIE
- No direct funding
- No Public Health voice or role
- No input to the ‘BIG” plan
- No track record for sustainability
- Who owns the data
- Privacy
- Security
- Costs – startup and ongoing

It is just the **Right Thing** to Do
We already have a start!

- Delaware Epidemiologists and Hospital Infection Control Personnel (DERSS-DHIN)
  - Bio-Surveillance Use Case, Chief Complaint
- Delaware Electronic Reporting Surveillance Systems
  - Lab Corp and Quest
  - DHIN Hospital Lab Data
  - Immunization (ARRA)
  - Electronic Health Records (Beacon Communities)
The honeymoon is over. Getting our own house in order!

- Business Requirements Gathering
- Workflow Analysis
- Business Process Reengineering
- Why do we do what we do?
- Change the mindset – we are more similar than we are different
What makes up Public Health in DE

1.0  Clinic Process

2.0  Bio-Surveillance

3.0  HIE (DHIN)

4.0  Registries

5.0  Population Health

6.0  DPH Laboratory

7.0  Environmental Health

8.0  Long Term Care
1.0 Clinic Process

- **External Provider**
  - Provide referral to clinic for service

- **Appointments**
  - Set up request for next appointment
  - Provide list of appointments

- **Client Eligibility**
  - Obtain MCI number
  - Provide Eligibility Approval

- **Manage Case**
  - New information obtained for visit
  - Updated records for archiving
  - Client history

- **Billing**
  - Invoice information
  - Request to Bill

- **Provide Service**
  - New information obtained for visit
  - Client medical history

- **Record Archiving**
  - Updated records for archiving

- **Fiscal Entities**
  - Electronic Medical Record/
  - Electronic Health Record

- **Inventory Database**
  - Reduce appropriate inventory
Relating the task to a process

- Send appt letters
- Verify appointment
- Schedule next appointment
- Letters of ...
- Update demographics and insurance
- Update CHCIS, TB database
- Send white copy of form
- Look up billing info in CHCIS
- Invoiced
- Take vital signs
- Assessment
- Provide immunization, education,
- Collect lab sample
- Send x-rays
- Pull charts
- Follow retention schedules
- Checklists
- Transfers
- Inventory
- Request client ID
- Check MCI number
- Request EHR
- Fiscal entities
- Electronic Health Record
- Provide referrals
- Update information
- Update CHCIS, TB database
- Send white copy of form
- Look up billing info in CHCIS
- External Provider
Building an EHR: Clinic Services

Clinical Services EHR View

- HIV/AIDS
- TB
- SCHOL Base Wellness
- STD/MIS
- Dental
- Family Planning
- Home Visit
- Mass Immunization
- WellCare
- School Based Wellness
- Family Planning

Environmental Health, OPIC, ODW, Food Permits, Plumbing Permits

Schedule Appointments

Billing

Case Management

Records Management

Business Processes

Public Health Data store, EMR database, CCD Data

Immunization

Cancer

BT

Diabetes

Data Forms

Reports (CDC, EPA, USDA)

Rhapsody HL7 mapping

LIMS
Public Health needs to Help Control the Ending

Is this about insurance, health care or patient access to data?

Who is at the table making these critical statements?

Those that wait may not like the conclusion.
What is the actual problem we are trying to solve?

• Who is figuring out what you need?
• Who determines whether your needs are critical?
• Who is determining who your partners are?
• Who determines if what is developed is correct?
• Who is representing the clients YOU are responsible for?
• Who determines if it will work for all stakeholders?
• Who sets the standards and criteria?
• Who is representing YOU?
HIE, Meaningful Use, Interoperability and an Integrated Public Health System

It Takes a Village.....
Where is your roadmap?
Thank You

It's QUESTION TIME!!
Our original “vision”