What is HIE?
a Federal and State Perspective

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www.objecthealth.com
Health Information Exchange (HIE) Defined

The movement of data between health information systems for the purposes of:

- Patient Communication
- Provider Communication
- State Communication
Health Information Exchange (HIE) vs Health Information Organization (HIO)

• Health information exchange describes an action
  – Provider orders a lab test
  – Lab result is delivered to Provider
  – Provider tells the patient the results

• Health information organization describes a business entity that operates the technology that supports the action(s)
  – Coordinates the different systems that collect and send information
Interoperability…

• ...Is the ability of diverse systems and organizations to work together (inter-operate).

• Health Interoperability
  – HIO runs technology and policies to move data
  – HIE moves data on request or per automated rules
  – Providers can concentrate on developing care plans
  – Patients are freed from managing paper records
So... Why is Interoperability Hard?

- Healthcare standards are problematic
  - A lot of “options”.
- Imagine if your laptop did not plug into the power outlet at the airport, and you needed an adapter for every hotel chain in the world.
Health Information Exchange

Services

- Clinical Messaging
- Medication Reconciliation
- Results delivery
- Secure document transfer
- Shared EMR
- Clinical Decision Support
- Clinical Messaging
- Orders
- Needs Assessment
- Surveillance
- Reportable conditions
- ADE detection
- De-identified, longitudinal clinical data
- Control of Health Record
- Informed engagement
- Secure communications
- Timely Notification

Health Information Exchange

- Hospitals
- Physicians
- Labs
- Public health
- Researchers
- Consumer

Content originally developed by Dr. J. Marc Overhage, MD, Ph.D., Regenstrief Institute
Health Information Exchange Requirements for California

- **Policy**
  - Common policies for exchange
  - Common rules for managing privacy and security

- **Technology**
  - Common standards for communication
  - Interoperability

- **Money**
  - Funding for those who cannot afford this change
  - Infrastructure investment

Money

Policy

Technology
(Another) Call to Action

“We’ll be on our way to computerizing all of America’s medical records, which won’t just eliminate inefficiencies, save billions of dollars, and create tens of thousands of jobs – but will save lives by reducing deadly medical errors.”

– President Barack Obama
February 4, 2009
Stimulus Funds from 2009 American Recovery and Reinvestment Act

Appropriated Funds ($2 billion in gross outlays)

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<th>Use of Funds</th>
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ONC: Office of the National Coordinator
HHS: Department of Health and Human Services
NSF: National Science Foundation
NIST: National Institute of Standards and Technology

Source: California HealthCare Foundation. ONC is Office of the National Coordinator, HHS is Department of Health and Human Services, NSF in National Science Foundation, and NIST is National Institute of Standards and Technology.
Funding Flows for – Medicare/Caid

Entitlement Funds ($34 billion in gross outlays)

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“Meaningful Use”

Source: California HealthCare Foundation, 2009
CMS is Center for Medicare and Medicaid Services,
Stimulus $ for HIE in CA - $38M

HIE $ per Capita

http://healthit.hhs.gov/portal and http://www.census.gov/popest/states/ Respectively
Self-projected HIO locations by end of 2013

Community HIOs

*Counties displaying multiple colors represent coverage by multiple HIEs
So... Why create HIE for Alameda County?
Securely Sharing Health Information Electronically is

- a matter of life and death
- not really easy (ok, it is hard)
- critical to bringing health care into the 20th century
- happening at every level of care delivery in our County!
FOR FURTHER INFORMATION
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