

Public Health Information Network and Clinical Partners

May 15, 2003



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Why connect clinical information and public health?

Function	Public Health	Medicine
Detect epidemics	Prevent cases	Decrease # cases Rx&Dx research
Disease reporting	More rapid, complete	Decreased system burden
Assess health of population	Makes possible	Benchmarks, risk adjustment
Evaluate alleged adverse events	Accurate risk management	Good practice, legal defense



Public Health Information Network Common Data Language

For clinical data coming to public health:

- ◆ specific implementations of National Committee on Vital and Health Statistics (NCVHS) and Consolidated Health Informatics (CHI) endorsed industry standards
- ◆ Work with partners for differential reimbursement for clinical care services eg if industry standard messages are used for clinical data

For public health participants:

- ◆ Require the use of industry standard data model, vocabularies and messages
- ◆ Use technology standards to ensure that software can be used in many settings



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Government role in development and utilization of standards

- Development should be by appropriate standard development organizations
 - ◆ Process should be open, participatory, have infrastructure for maintenance
 - ◆ Access to standards critical; approach to proprietary standards needs discussion
 - ◆ Government can adopt via regulation (HIPAA), advisory committee (NCVHS), leadership (CHI)
- Government can facilitate re competing standards or needed standards (NCVHS)
- Adoption by government agencies can accelerate implementation



Public Health Related Messages

Routine Public Health and Investigation of BT Detection Messages

Clinical

- Microbiology results
- Orders
- Chief complaints
- Lab results
- Discharge diagnosis

Public Health

- Nationally Notifiable Diseases
- Hepatitis
- Meningitis
- Electronic Lab Reporting

Response Messages

- Lab test request
- Lab result
- Case report
- Test result available notification
- Specimen container shipment
- Specimen context
- Intervention request
- Intervention result report
- Contact list report
- LDIF directory exchange
- Alerts and public health information dissemination



How can Public Health Information Network help encourage use of standards?

- Understanding of need for preparedness high among providers, public
- Public private partnership--eHealth Initiative public health, Standards Development Organizations, clinical systems vendors supporting 80% of US health care systems, providers
 - ◆ practical tools—implementation guides-- to implement standard messages
 - ◆ early step en route to NHII
- Electronic data reporting complements alert clinicians, backstops the system, (and eases burden of public health reporting requirements)

