Hearing on Functional Requirements for the Nationwide Health Information Network

National Committee on Vital and Health Statistics (NCVHS)

Association of State and Territorial Health Officials
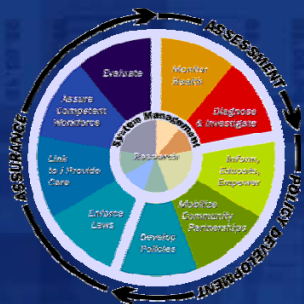
Larry Hanrahan, PhD, MS

July 27, 2006

Washington, DC

Public Health Services and Functions

Both distinct from and encompassing clinical services, public health's role is to assure the conditions necessary for people to live healthy lives, through community-wide prevention and protection programs.[1]

- Prevent epidemics and the spread of disease

- Protect against environmental hazards

- Prevent injuries

- Promote and encourage healthy behaviors and mental health

- Respond to disasters and assist communities in recovery

- Assure the quality and accessibility of health services

1. *James A. Harrell, Office of Disease Prevention and Health Promotion, Washington, D.C. Edward L. Baker, MD, MPH, Centers for Disease Control and Prevention, Atlanta, Georgia and the Essential Services Work Group*
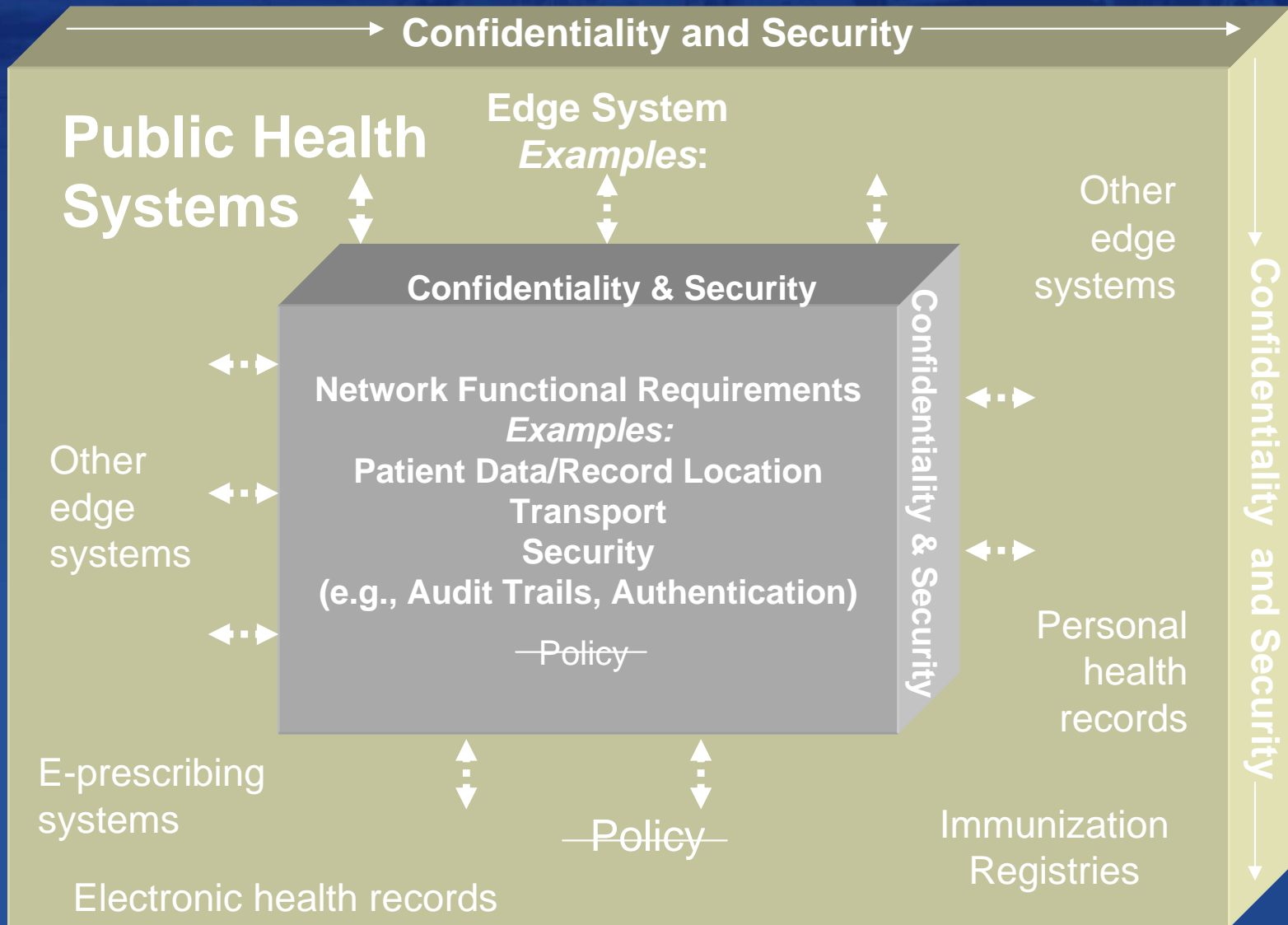
The Ten Essential Services

- *Monitor health status to identify and solve community health problems*

- *Diagnose and investigate health problems and health hazards in the community*

- *Inform, educate, and empower people about health issues*

- *Mobilize community partnerships and action to identify and solve health problems*

- *Develop policies and plans that support individual and community health efforts*

- *Enforce laws and regulations that protect health and ensure safety*

- *Link people to needed personal health services and assure the provision of health care when otherwise unavailable*

- *Assure a competent public and personal health care workforce*

- *Evaluate effectiveness, accessibility, and quality of personal and population-based health services*

- *Research for new insights and innovative solutions to health problems*

Public Health Services and Functions

- Public Health Clinical Care Services
  - Like any other care delivery organization
    - Hospitals
    - Clinics
    - Laboratories
    - Pharmacies

- Public Health Non –Clinical Services
  - Routine
    - Notifiable Disease Reporting
    - Surveillance of Non-Reportable Diseases/Conditions
      - Injury, Birth/Death Records, Newborn Screening
  - Emergency
    - Natural disasters
    - Man-made disasters

NCVHS Discussion Template of NHIN

Confidentiality and Security

Public Health Systems

Edge System
Examples:

Confidentiality & Security

Confidentiality & Security

Confidentiality and Security

Other edge systems

Other edge systems

Network Functional Requirements
Examples:
Patient Data/Record Location
Transport
Security
(e.g., Audit Trails, Authentication)

Policy

Personal health records

E-prescribing systems

Policy

Immunization Registries

Electronic health records

Draft – NCVHS - 071406

ASSOCIATION OF STATE AND TERRITORIAL HEALTH OFFICIALS (ASTHO)

Proposed Nationwide Health Information Network Functional Categories

- Audit and logging
- Authentication
- Authorization
- Confidentiality
- Credentialing
- Data access and update
- Data content
- Data filtering
- Data mapping/translation
- Data quality/data integrity

- Data rendering
- Data retrieval (pull)
- Data routing
- Data source
- Data transmission (push)
- Data usage
- Identity/information correlation
- Persistent data storage
- Record location
- Transient data

Larry Hanrahan, PhD, MS
Director of Public Health Informatics
Wisconsin Department of Health and Family Services
Division of Public Health
hanralp@dhfs.state.wi.us

Angela Fix, MPH
Director, Public Health Informatics
Association of State and Territorial Health Officials
afix@astho.org