

NCVHS Strategic Retreat: Issues Deserving Attention to 2010

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Living in the Fast Lane:

*If everything is under control,
you are going too slow.*

- Mario Andretti

- I. Overview of Dominant Goals for past decade
- II. Dominant Goals for next decade
- III. Priorities if we are to accomplish II.
- IV. NCVHS focus for next 4 years

1991-99 Goal - Computer-based
Patient Records (CPRs) for Clinicians.

1999-01 Goal - Safety & CPRs.

2001-06 Goal – Safety/Quality with
Electronic Health Records.

Aims for Health Care Delivery System

- Safe
- Effective
- Patient-Centered
- Timely
- Efficient
- Equitable

- *IOM: Crossing the Quality Chasm, 2001*

The Message

“In the absence of a national commitment and financial support to build a national health information infrastructure, the committee believes that progress on quality improvement will be painfully slow.”

– *Crossing the Quality Chasm: A New Health System for the 21st Century*, IOM, 2001

What we needed v. '98-'05:

NHII  NHIN

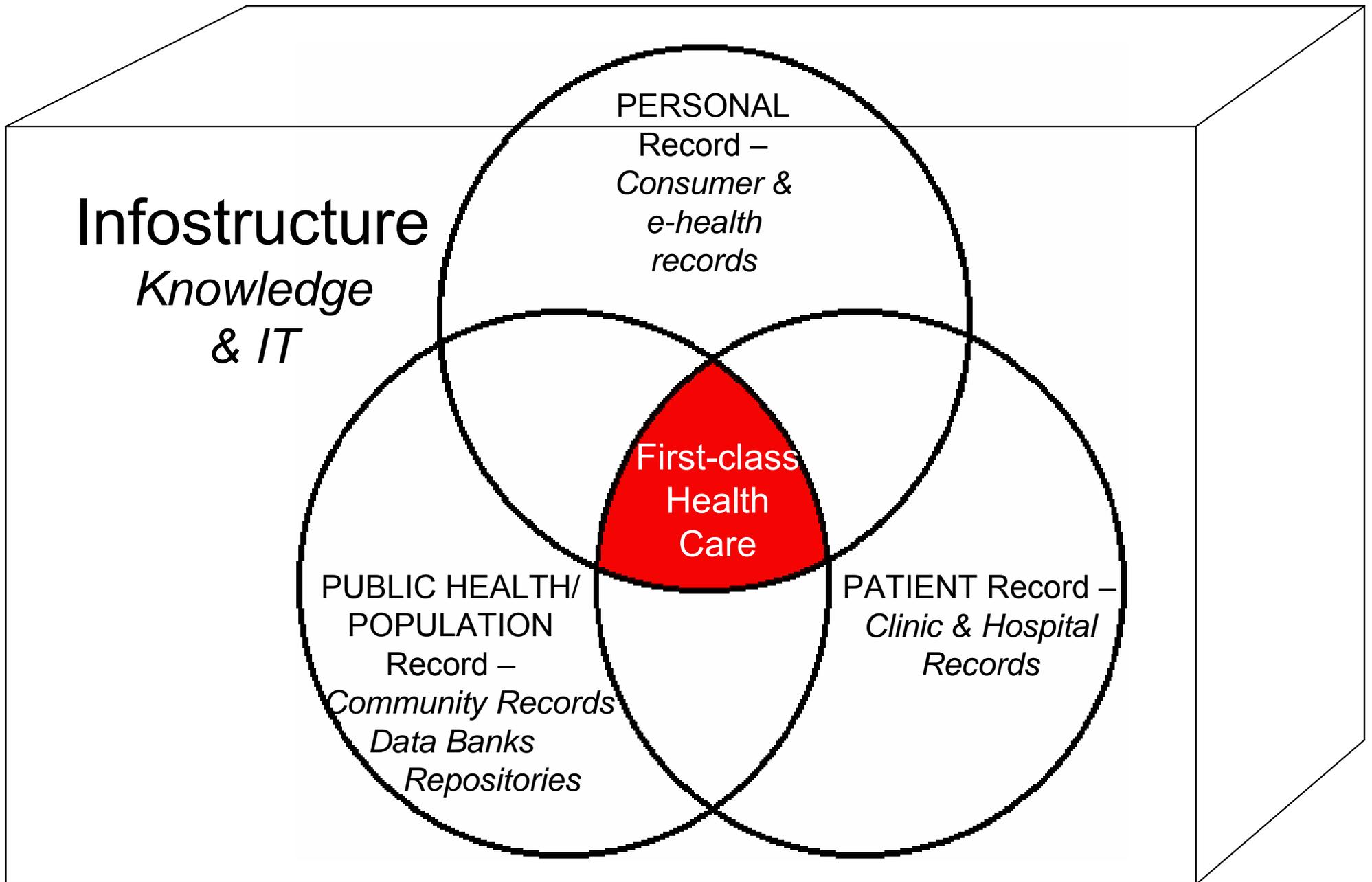
- Health IT to achieve
 - Individual Clinical Care
 - Population Care
 - Health & Prevention

Berner ES, Detmer ED, Simborg D. Will the wave finally break? A brief view of the adoption of electronic medical records in the United States. *J Am Med Inform Assoc.* 2005 January-February;12(1):3-7.

Aim: Transform Systems

from Costly, Inefficient, & Highly
Variable Systems

to Systems that are equitable, safe,
patient-centered, efficient, effective, &
timely.



Interlocking computer-based health records (C3PRs) supported by knowledge & IT infrastructure

USA & World: Learning from Abroad

- 2006 Take home lessons

Detmer DE, Steen EB: Learning from Abroad: Lessons and Questions on Personal Health Records for National Policy. AARP Policy Report #2006-10, March 2006. see http://www.aarp.org/research/health/healthliteracy/2006_10_phr_abroad.html



Similarities in the HIT Environments*

- Strong emphasis on standards to enable connectivity & interoperability.
- Privacy is a priority & is recognized as a greater challenge in those countries where both federal (national) & state/provincial laws must be aligned. Privacy commissioner provides a visible focal point for privacy policy & enforcement.
- Unique personal health identifiers are planned or are in use at the national level & at the province level across Canada. [The major exception from the USA!]
- The public is increasingly using the Internet & does so for health purposes much of the time.
- (Rising concern over sustainability of healthcare system.)

*see Detmer & Steen at http://www.aarp.org/research/health/healthliteracy/2006_10_phr_abroad.html



Conclusions (1) : Government's Role

Nations Studied

Prime Value:

Social solidarity;
Health through services

Concern about sustainability

Social Solidarity \approx Trust

Policy Outcome: Privacy
Policy moves on to dealing
with confidentiality, security,
& sanctions for breaches

USA

Prime Value:

Individual Autonomy &
Personal Control; Health
through research & discovery

Individual Autonomy &
Control \approx Trust
(or, mistrust & ongoing suspicion*)

Policy Outcome: Privacy
Policy becomes endless debate
with health & privacy in conflict



* Onora O'Neill: *Autonomy and Trust in Biomedical Ethics*
Cambridge University Press 2001

Conclusions (2) :

Consumers/Citizens & National Policy

USA Only

ePersonalHRs are a 'hot topic'
Equity of access is not a key
healthcare policy or issue

Individual control/autonomy
emphasized over education

No policy for personal
authentication

Mostly rhetoric & meager Federal \$
investment

Nations Studied

EMRs & Public/Population 'hot'
Policy assures equity of access to
care (esp. primary)

Education emphasized over
patient control

Personal Unique Health ID /
National IT Card

Strongest concern is for
confidentiality & security over
privacy

Action & Substantial \$ / £ s

National Academies Informatics
Planning Workshop
May 1, 2006

- Academy-wide initiative will be forthcoming

2006 –

Goal: Informatics to Assure Value*
for Individuals & Populations

***Value = Quality & Safety / Cost**



The Future of Care: Manage Change supported by Information Technology with Informatics.

- Build Knowledgeable Teams
 - Reinvent Workflow
 - Integrate Innovations
 - Remove ‘Outdated’ Practices
 - Reduce Variation
 - Improve Safety/Quality while Reducing Costs
 - Manage the Base of Knowledge
-
- National Academies Study
“Building a Better Delivery System”
National Academy Press, 2005

Health Informatics \neq Health IT

“A scientific field that draws upon the information sciences & related technology to enhance the size & use of the knowledge base of the health sciences to improve health care, basic biomedical & clinical research, education, management, & policy.”

Five Key Dimensions of National & Global Health Informatics Infrastructure

Care-related Communications/Records

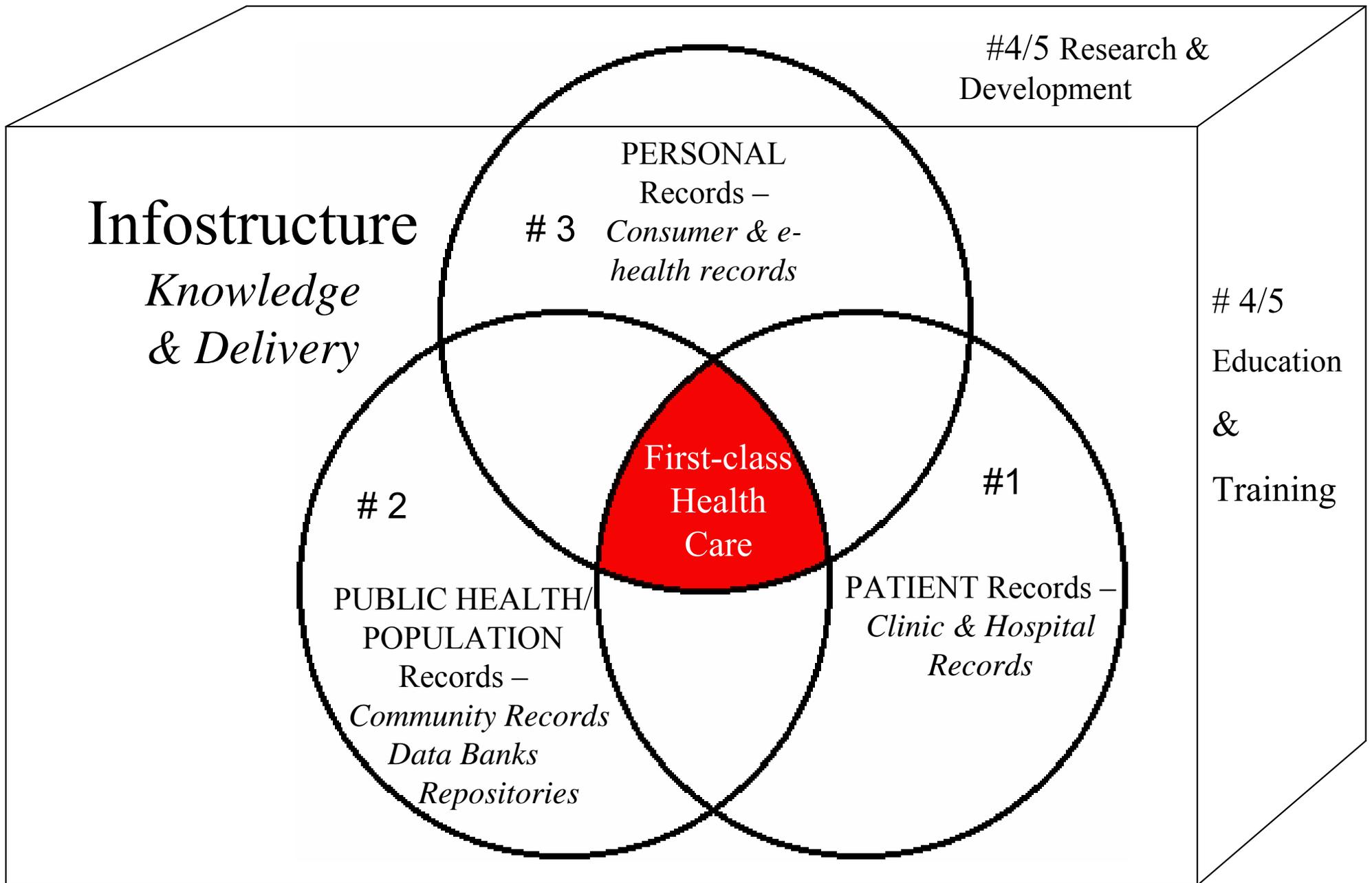
1) Personal

2) Patient

3) Population / Public Health

Research & Development

Education & Training



Interlocking Computer-based Health Records (C3PRs) supported by knowledge (Research & Development / Education & Training with IT infrastructure)

My Suggestion: NCVHS should develop 3 ad hoc work groups
(committee members & others)

I. Work Group on Research & Development

Pursue top three items relevant to NCVHS

II. Work Group on Education & Training

Pursue top three items relevant to NCVHS

III. Work Group on Value in Health Care,

e.g., Value = Quality & Safety/Cost

Pursue top 3 items relevant to NCVHS

IV. ??? Value Group

I. Work Group on Research & Development

Pursue top three items relevant to NCVHS

Top 7 Informatics Research Issues reflect the Value-driven mindset

AMIA / ACMI Survey (Starren, Balas, Detmer 2006)*

1. Interoperability
2. Workflow
3. Quality/Patient Safety
4. Decision Support
5. Information Filtering/Aggregation
6. Impact of Informatics
7. Human Computer Interface

*not for quotation



A Roadmap for National Action on Clinical Decision Support*

June 13, 2006

Arguably, the first Education Infrastructure initiative of the NHIN

A Roadmap for National Action
on
Clinical Decision Support
June 13, 2006

Prepared by:
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(AMIA for ONC)

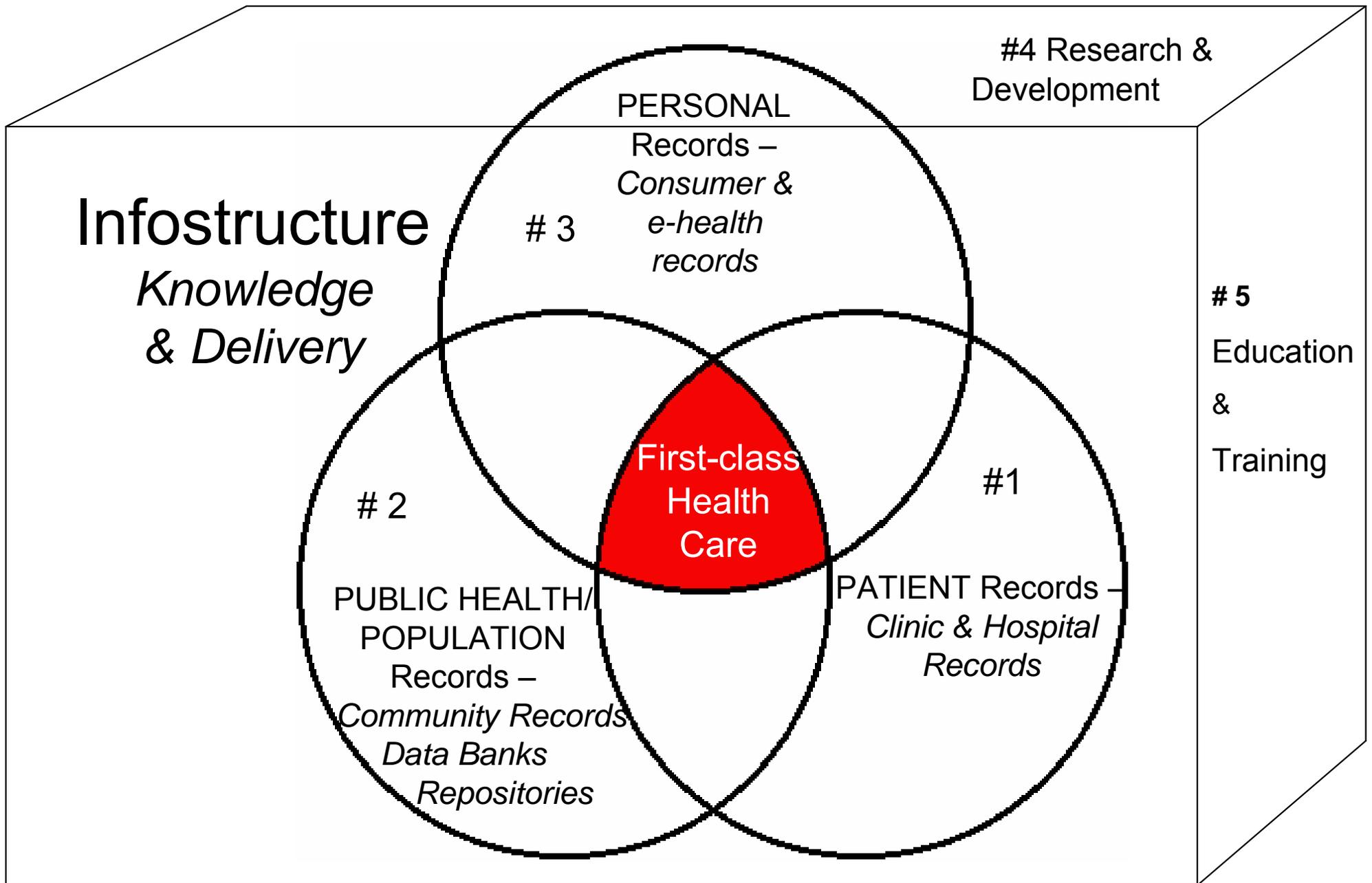
<http://www.amia.org/inside/initiatives/cds/>



Generate Strategic Report & pursue a few policy priorities of NCVHS NHIN Research & Development Agenda

Example: Recommend an opt-out personal health identifier for:

- » Care &
- » Prior approval to notify via email of IRB approved research studies of potential interest & sound educational materials



Interlocking Computer-based Health Records (C3PRs) supported by knowledge (Research & Development / Education & Training with IT infrastructure)

II. Work Group on Education & Training

**Pursue top three policy items relevant to
NCVHS**

An investment in knowledge
always pays the best interest.

- Benjamin Franklin

Informatics Domains

- Bioinformatics
- Clinical Informatics (Covvey)
 - "hyper-applied" health information technology research/academic training emphasized by NLM's training programs & several other university based programs
 - a middle zone that might be called "applied clinical informatics."
- Public Health Informatics
- Public Policy Informatics

NCVHS Ad Hoc Work Group

Education & Training

- Comprehensive
- Forward looking
 - Workforce Implications
 - Primary Care for USA; Developing Skills of Citizens
 - Demand for Informaticians & Informationists
- Recommendations for all Government Agencies
 - FDA - Clinical Trials, Post-market Surveillance, +/- EHR Regulation
 - NIH - NLM - Implement its Long Range Strategy with Knowledge Bank
 - Research infrastructure NCRR
 - AHRQ – Safety & Quality; Workflow
 - DoD, VAH - Vista for all?!
 - State Roles
 - Federal Investment needed
 - Standards Setting across domains -



AHIMA /AMIA Workforce Initiatives

Workforce White (Lime) Paper

AMIA's Education Strategy:

Informatics to transform Health & Healthcare

- Web Learning – 10,000 x 2010 (10x10)
 - Applied Clinical Informatics
 - MS Biomedical Informatics
 - Public Health Informatics
- Legislation for Increasing Funding for Informatics Workforce - Congressman David Wu



IV. Final Suggestion for NCVHS

Ad hoc group on Value in HealthCare, e.g.,
Value = Quality & Safety/Cost

Pursue top 3 items relevant to NCVHS

*Committee members plus others

Assuring Value in Clinical Settings 2006-

- Complete the HIT & Informatics Infrastructure
 - Administrative Simplification with Standards
 - Ex. SSA requests made by State Disability Determinations Services – Charles Urban
- Change Management & Work Redesign
- Enhance Clinical Decision Support
 - Find Best Practices & Scale Up
 - Disease Surveillance
 - Chronic Illness Management
 - Health Maintenance/ Prevention

Support Web-based programs that increase knowledge & skills for citizen/patient use of eiPHRs.*

Review the EU's e-Citizen program & adapt it for US use to engage serious health, computer, & numeracy literacy issues.

*e = electronic i = integrated & intelligent PHRs

(personal health records)



The field of knowledge is the
common property of all mankind.

- Thomas Jefferson, 1807

Generic Final Slide

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Detmer DE: Public Policy Issues for Computer-based personal records, Electronic Health Records and the National Health Information Infrastructures. In Lehmann HP, Abbott PA et al: Aspects of the Computer-Based Patient Record (2nd edition), Springer-Verlag, 2006.

Debate & Conclude Position on U.S. Public Domain Standards

- Federal government support for development & maintenance of standard educational vocabularies.
- System purchasers working with vendors test & improve current standards for greater interoperability & scalability.
- JCAHO requires vendors to meet standards.