

Issues and Challenges Associated with Healthcare IT

Presentation to the NIST
Visiting Committee on Advanced Technology

Presented by Carla Smith, MA, CNM, FHIMSS
Executive Vice President

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Overview

- HIMSS Background
- Educational Resources
- Partnerships
- Health IT Community Priorities
- Observations

HIMSS Strategic Direction

Vision

Advancing the best use of information and mgt systems for the betterment of health care.

Mission

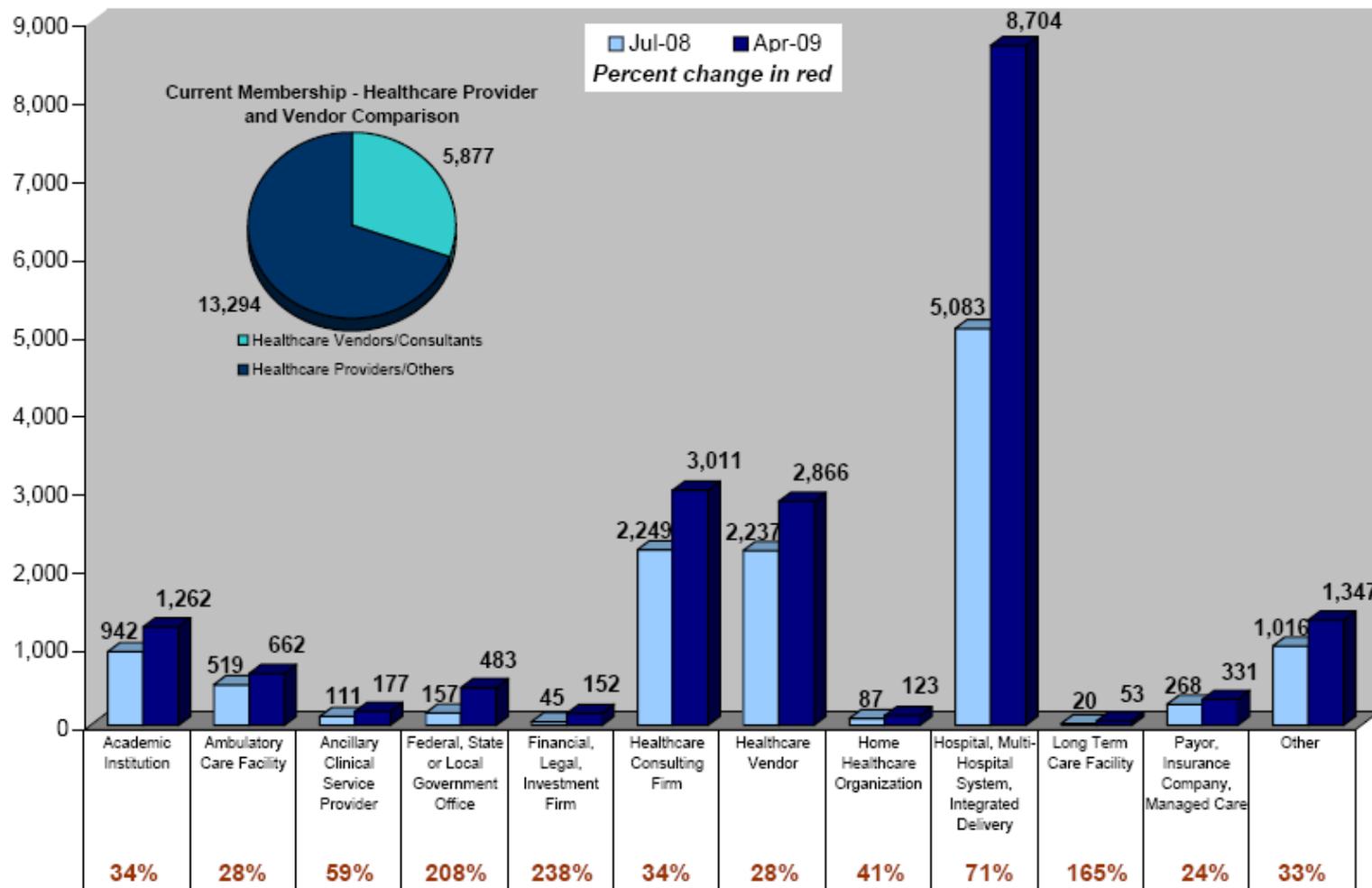
Lead healthcare transformation through the effective use of health information technology.

HIMSS Serving Healthcare Since 1961

- 22,000 Individual Members of which 73% work in the field (non-vendors, non-consultants)
- 350 Corporate Members
- 90+ committees, task forces, & work groups
- 47 Chapters in North America
- 3 corporations, over 200 staff
- Top 5 largest healthcare conference in US

HIMSS Individual Membership Worksite Locations

As of 5/4/09, HIMSS Individual Membership totals 22,286. Our members are not required to complete a demographic profile. This chart displays the worksites of the 86% (n = 19,171) of our individual membership who have completed a profile.



HIMSS Resources

- Davies Award
- HIMSS Analytics
- Education
- Professional Development
- Guides and Toolkits
- Publications

EMR Adoption ModelSM

Stage	Cumulative Capabilities	2008 Final	2009 Q1
Stage 7	Medical record fully electronic; HCO able to contribute CCD as byproduct of EMR; Data warehousing in use	0.3%	0.3%
Stage 6	Physician documentation (structured templates), full CDSS (variance & compliance), full R-PACS	0.5%	0.8%
Stage 5	Closed loop medication administration	2.5%	3.6%
Stage 4	CPOE, CDSS (clinical protocols)	2.5%	2.8%
Stage 3	Clinical documentation (flow sheets), CDSS (error checking), PACS available outside Radiology	35.7%	37.0%
Stage 2	Clinical Data Repository, Controlled Medical Vocabulary, Clinical Dec, may have Document Imaging	31.4%	32.1%
Stage 1	Ancillaries – Lab, Rad, Pharmacy – All Installed	11.5%	9.0%
Stage 0	All Three Ancillaries Not Installed	15.6%	14.5%
	Total Hospitals	n = 5166	n = 5170

HITSP

Healthcare Information Technology Standards Panel

Harmonizing and Integrating Standards To Meet Clinical and Business Needs

- A consensus-based process w/687 member organizations & 644 individual participants
- Delivered 13 Interoperability Specs and 67 potentially reusable Constructs
- 32 vendors demonstrated Constructs at HIMSS09 Interoperability Showcase
- NHIN specs & CCHIT interoperability criteria use Constructs
- ONC asked HITSP assistance to meet requirements for designating standards for ARRA, including meaningful use

Integrating the Healthcare Enterprise

- International Organization with >250 organizational members
- 11-year history of standards profiling and testing
- Driven by end-users, profiles free in public domain
- Improves patient care by harmonizing e-health exchange using standards
- 50 IHE profiles adopted by HITSP



Live Public Demonstrations

- > Walk-through healthcare scenarios
- > Simulated multi-vendor clinical settings, and regional, national Health Information Exchanges
- > USA: HIMSS Interoperability Showcase™, RSNA
- > Europe: ECR, JFR, World of Health IT...
- > Asia: Asia Pac, JRC...

Global Development - 10 Domains

Radiology	IT Infrastructure	Laboratory	Cardiology
Pathology	Patient Care Devices	Patient Care Coordination	
Radiation Oncology	Eye Care	Public Health, Quality and Research	

Connectathons

- > Proof of concept
- > Annual multi-vendor interoperability compliance testing
- > North America, Europe, Asia



Industry Participation





Certification Commission for Health Information Technology

- Nonprofit, 501(c)3 organization with the mission of accelerating the adoption of robust, interoperable health IT
- Federally recognized certifying body since 2006
- Open, transparent development process involving >200 volunteers and multiple cycles of public comment
- Objective, repeatable inspection and certification processes
- Fully operational certification programs for ambulatory, inpatient, and emergency department EHRs, as well as several other domains operational or in development
- Over 200 products certified, representing over 85% of the EHR marketplace
- Endorsed by the twelve largest physician professional associations

HIMSS and Healthcare Reform

- More than 100 volunteers convened to make recommendations to the Administration & Congress
- Recommendations included:
 - Leadership
 - Funding
 - Certification
 - Standards Harmonization
 - Workforce
 - Telehealth
 - Privacy and Security
 - Consumer Empowerment

Health IT Issues and Challenges in ARRA

Economic Stimulus and Health IT

- President signs **ARRA** into law, referred to by many as a “**foundation for healthcare reform**”
 - New funding
 - Codification of the ONC
 - Establishment of 2 Federal Advisory Committees
 - Grants and loans to foster the use of health IT
 - New privacy and security provisions

Defining “Meaningful Use”

- Basic requirements:
 - Demonstrated use of certified EHR technology in a meaningful manner
 - Information exchange
 - Outcomes reporting
- HHS is required to improve health care quality by requiring more stringent measures of meaningful use over time

Defining “Certified” EHR Technology

- Includes patient demographic and clinical health information, such as medical history and problem lists, and has the capacity to:
 - Provide clinical decision support
 - Support physician order entry
 - Capture and query information relevant to health care quality
 - Exchange electronic health information with, and integrate such information from, other sources
- Certified as meeting specified standard

HIT Policy Committee

- Federal Advisory Committee chaired by Dr. Blumenthal
- Patient-centered care and P/S underlying themes
- 3 Work Groups –
 - Defining Meaningful Use
 - Adoption/ Certification
 - Infrastructure/ Workforce

HIT Standards Committee

- Federal Advisory Committee chaired by Dr. Jonathan Perlin and Dr. John Halamka
- Patient-centered care and P/S underlying themes
- 3 Work Groups –
 - Privacy/ Security
 - Clinical Outcomes
 - Clinical Quality

Observations

Presumptions

- Health IT provisions in ARRA seen as the “First Step” toward Health Reform
- Goal is improved Quality and Cost Effectiveness – **not** simply getting technology to clinicians
- ONC: Mandates from Congress and President
 - Protect privacy and promote security of personal health information
 - Widespread provider adoption of EHR
- Use existing testing tools, such as NIST tests and tools for basis testing

2009 Health IT Community Priorities

- Defining Meaningful Use and a Meaningful User
- Understanding who the certifying body will be, the criteria and testing tools
- Identifying harmonized standards
- Achieving a framework for incentive payments

2010+ Health IT Community Priorities

- Educating/equipping many hospitals & physicians for meaningful use
- Earning/Receiving Incentive Payments
- Meaningful Use's maturation process and expectations
- Infrastructure Improvements –
Foundation for a Nationwide Health Information Network

HIMSS Meaningful Use Recommendations

- Use CCHIT as the certifying body
- Use HITSP & IHE for interoperability gaps
- Achieve incremental maturation of meaningful use in three phases
- Reconcile the gap between certified EHR technologies, “best of breed”, and “open source” technologies.
- Clarify incentive payment eligibility

**Carla Smith, MA, CNM,
FHIMSS**

csmith@himss.org

734.477.0860