Medical Informatics and HIT Systems

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What is wrong with this picture?



Outline

- What kinds of HIT systems are there?
- What major trends are emerging?
- What are the benefits to adoption?
- What are the barriers to adoption?
- What is the current state of adoption?
- How can you learn more?

HIT Applications

- Patient registration/ demographics
- Insurance validation
- Billing systems
- Appointment systems
- Computerized
 Physician Order Entry
 (CPOE)
- EMR/EHR/CPR
- Pharmacy systems

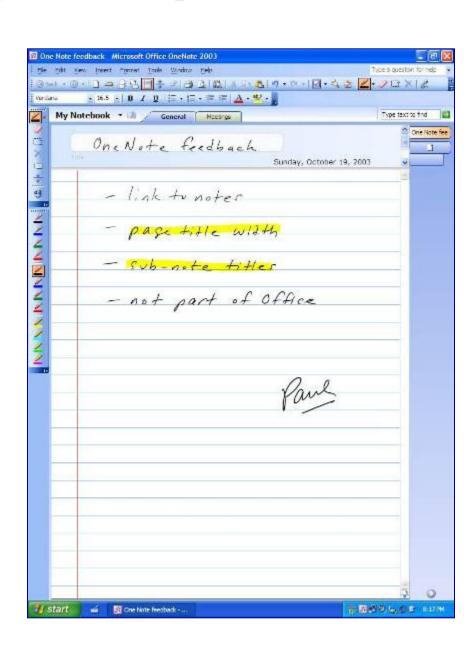
- Lab systems
- Imaging systems
- Telemedicine
- Patient education
- Decision Support
- Library resources
- Sensors

Sad Facts

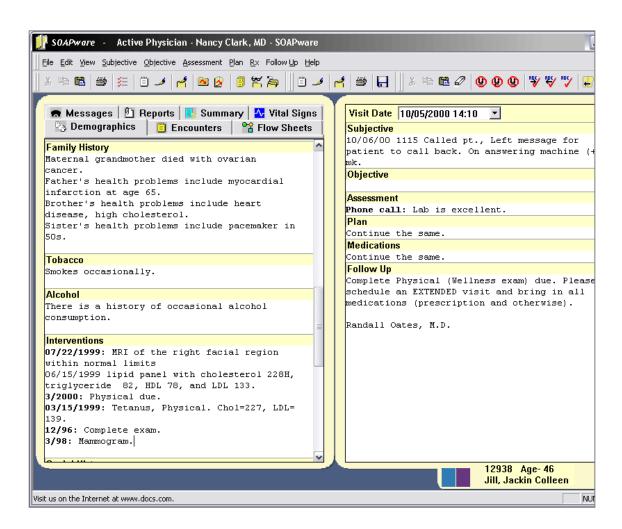
- Medical errors account for more deaths than breast cancer, AIDs and motorcycle accidents.
- US has highest HC costs per capita in world
- US has worst outcomes of industrialized nations. (infant mortality, lifespan, etc.)
- Healthcare is 10-15 yrs behind business in adoption of IT

Some Hospitals are using Tablet Capture Devices

- Microsoft Office OneNote
- Windows Journal
- Microsoft Educational Pack for Tablet PC
- Microsoft Experience Pack for Tablet PC
- Sticky Notes
- Snipping Tool



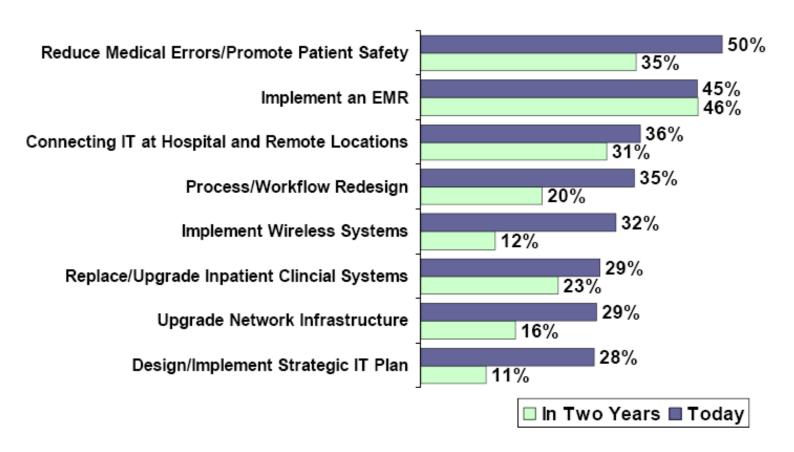
Electronic Medical Records



Projected IT Priorities

(Today vs. Next Two Years)

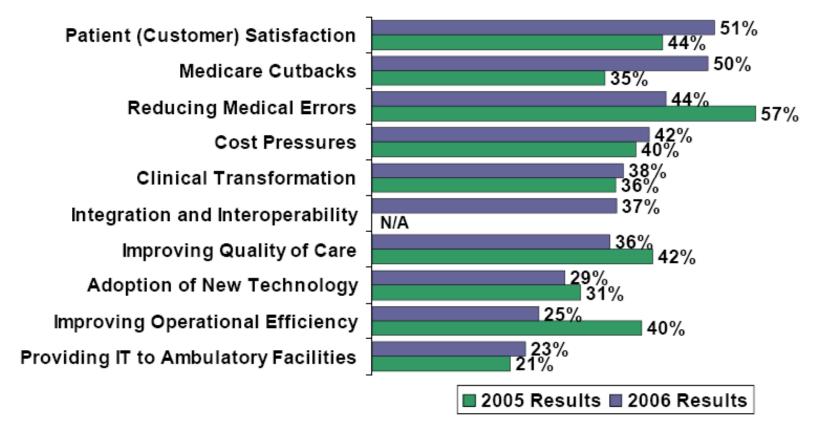
Figure 9



Top Business Issues Facing HealthCare

(2006 vs. 2005 Results)

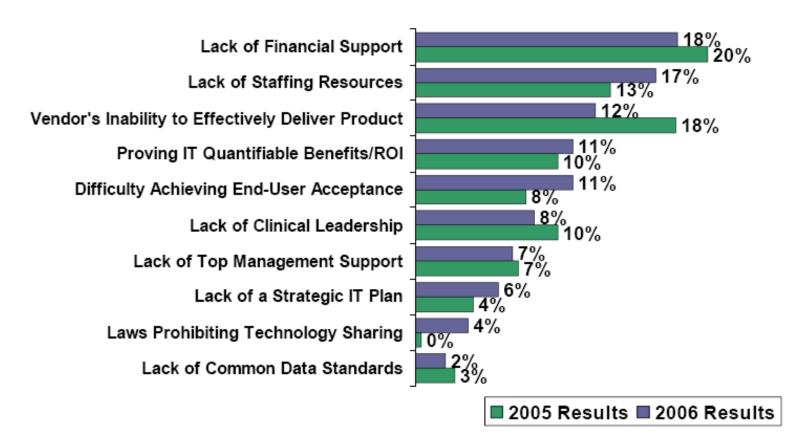
Figure 10



Most Significant Barriers to Barriers to Implementing IT

(2006 vs. 2005 Results)

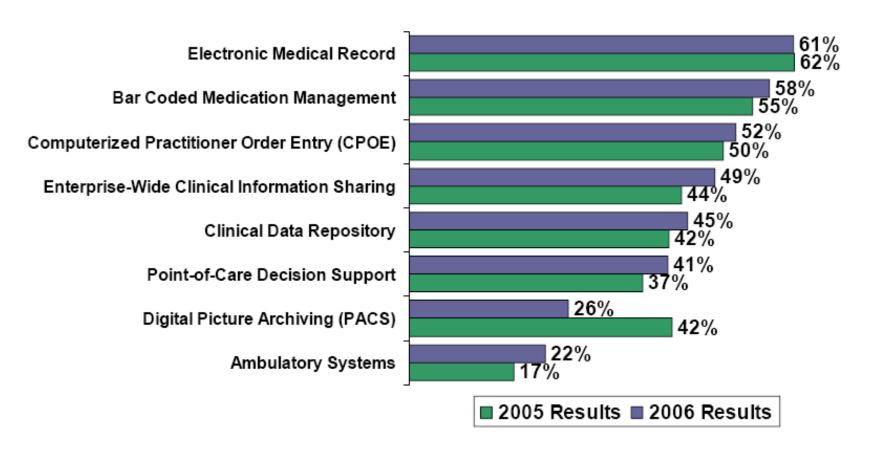
Figure 11



Most Important Applications

(2006 vs. 2005 Results)

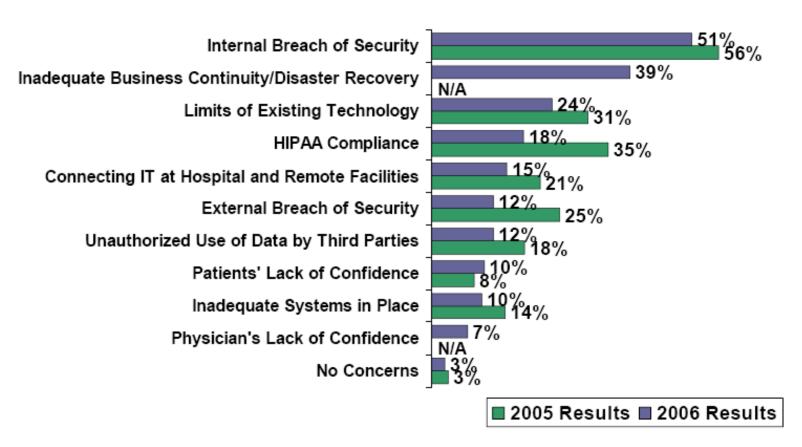
Figure 12



Top Security Concerns of Computerized Medical Information

(2006 vs. 2005 Results)

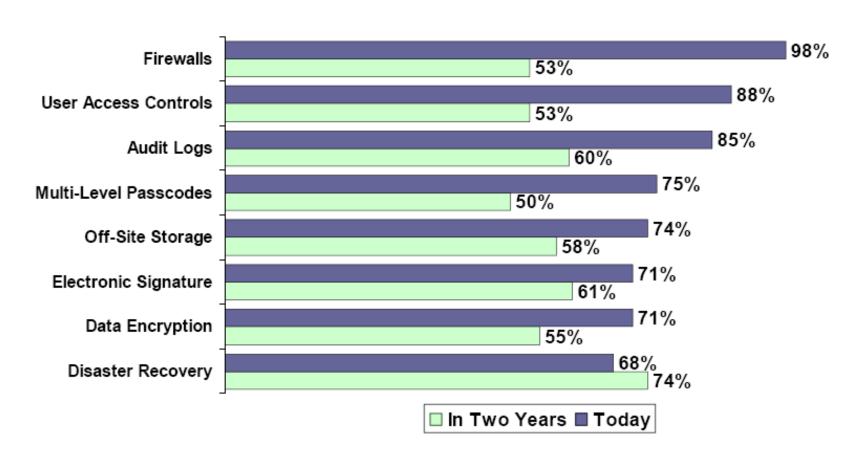
Figure 14



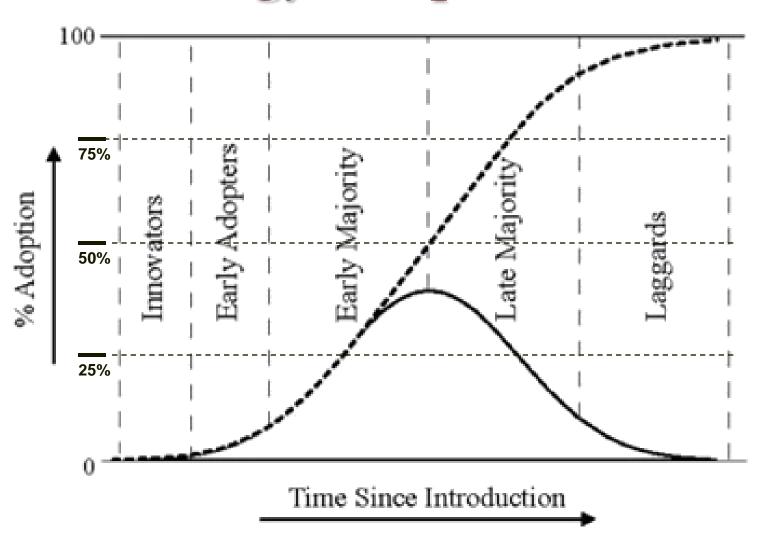
Security Tools

(Today vs. Next Two Years)

Figure 15



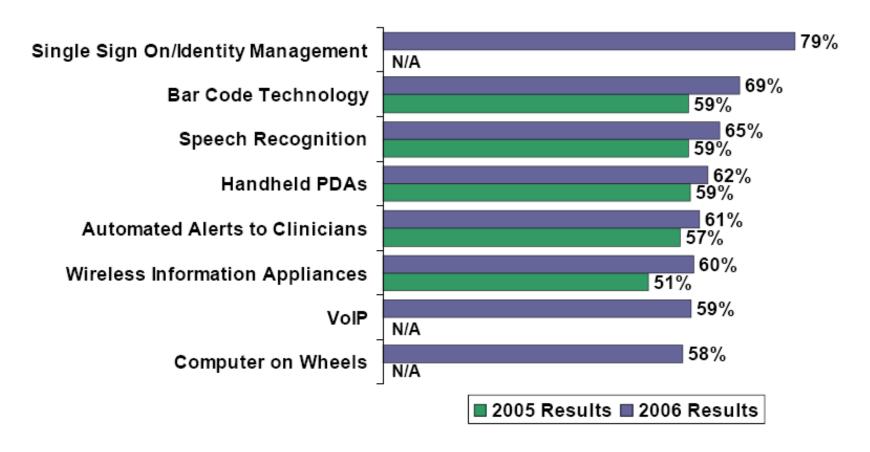
Technology Adoption Curve



Technology Adoption (Next Two Years)

(2006 vs. 2005 Results)

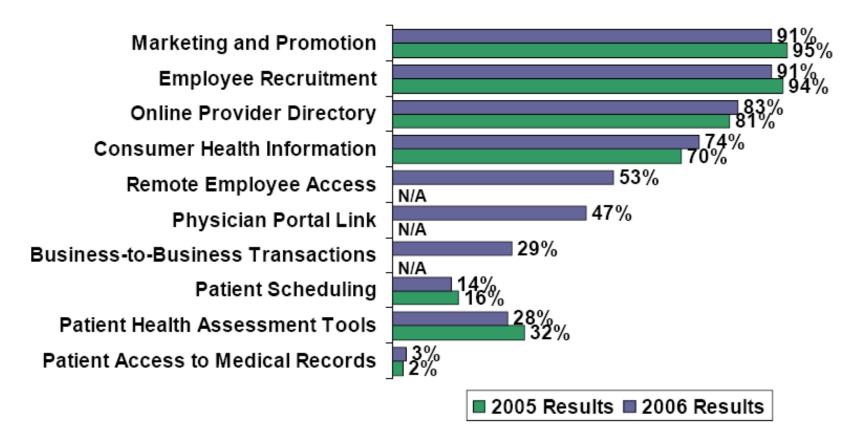
Figure 17



Current Web Site Functions



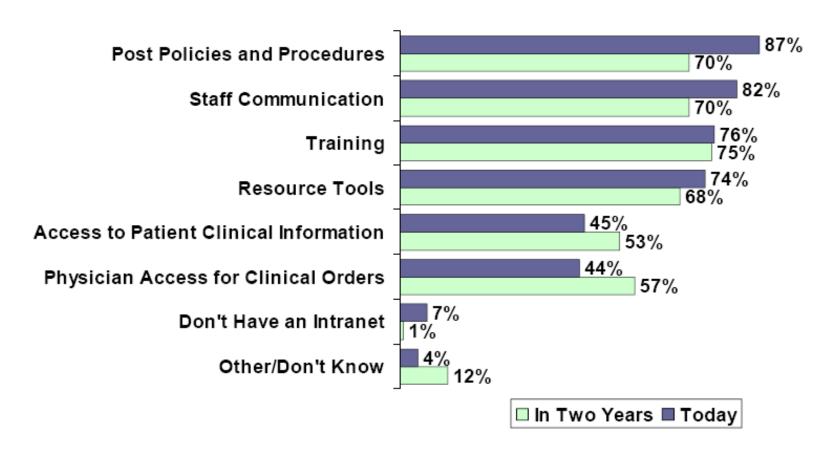
Figure 19



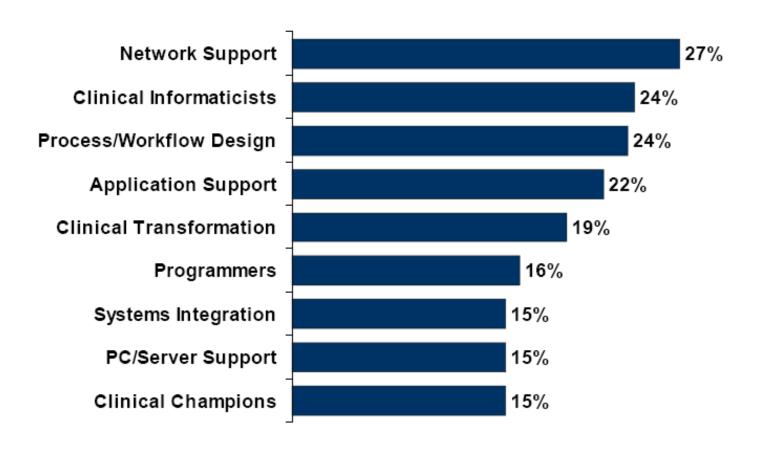
Intranet Functions

(Today vs. Next Two Years)

Figure 21



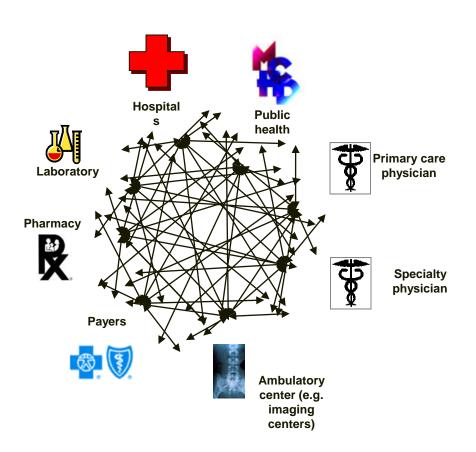
2006 Health IT Staffing Needs



Goals

"Wiring" Healthcare

Current system fragments patient information and creates redundant, inefficient efforts



Future system will consolidate information and provide a foundation for unifying efforts

