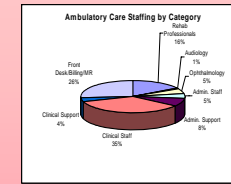


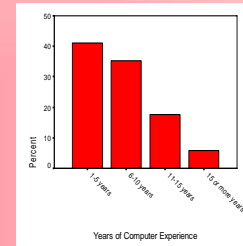
Background Overview

- Between 44,000 and 98,000 people die in US hospitals each year due to medical errors (Institute Of Medicine, 1999).
- 8.8 Million adverse drug events in ambulatory care each year (Center For Info Technology Leadership, 2003).
- Spiraling US healthcare cost (Center for Medicare & Medicaid Services):
- 1.7 Trillion dollars current expenditure.
- 2012 estimates are at 3 Trillion dollars.

Pilot Study Results

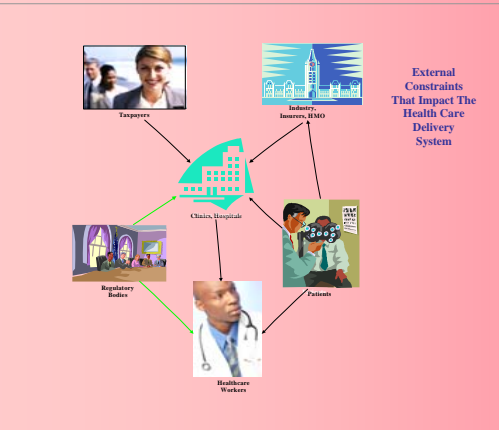


Preliminary study conducted with 18 participants in a clinical department.



Qualitative and quantitative findings suggest that there are non-monetary factors that contribute to gaps in clinical IT adoption.

- Resistance
- Human side of medicine
- Types of systems introduced

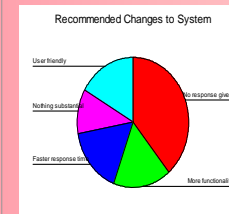


Why Is Clinical Health Care Less Aligned To Information Technology Than Administrative Health Care?

Karen Hare, NJIT
 Dr. Albert Jekelis, UMDNJ
 Dr. Brian Whitworth, NJIT



Findings That Identify IT Adoption Inhibitors



Major concerns retarding implementation of clinical information technology solutions include:

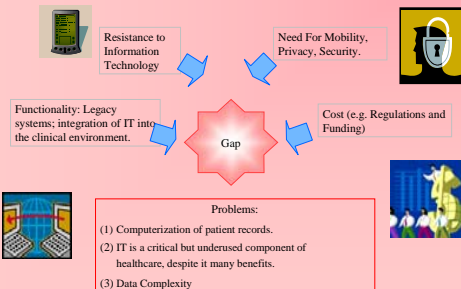
- Functionality
- User-friendliness
- System integration
- Technology Intimidation

Comparison Between Administrative And Clinical Healthcare.

Administrative Healthcare Systems	Clinical Healthcare Systems
HIMS - Designed to support information requirements of hospitals and university-affiliated medical centers; predominantly for healthcare delivery	CIS- Component of HMIS, clinically orientated capabilities, such as order writing and results communication.
Operational needs of the hospital, i.e., census management.	Computerized patient records
Patient billing	Clinical order entry
General accounting (payable, receivables)	Data privacy, confidentiality, and security
Payroll	Mobility

- The Implementation Of Technology Systems To Support Operations, In Clinical Healthcare Lags Behind Equivalent Businesses.
- IT Is Useful For The Business Aspect Of Healthcare.
 - Saves Money.
 - IT Alignment With Business, Organizational And Strategic Needs.
 - Not All Of The IT Success That Supports The Business Side Of Healthcare Has Been Realized For The Clinical.

Clinical Healthcare Problems: A Gap Between Clinical & Administrative Healthcare



Future Research Direction

This continuing research will seek to identify information technology solutions for clinical Healthcare practitioners that address agility, flexibility and mobility, while adhering to the constructs that are necessary for secure and confidential data.