Re-Visiting Health Informatics HINF1100

Fall 2008

What is Health Informatics?

- Health Informatics is a scientific discipline that deals with all aspects of understanding and promoting the effective organization, analysis, management and use of health information to improve the delivery and practice of healthcare
- Health Informatics is the study of applying information and technology to improve health and healthcare
- Health Informatics = Health + Healthcare + People +
 Information + Technology

Why Health Informatics

- Health Informatics is an exciting new discipline that aims to transform the healthcare system by incorporating information systems to support healthcare processes
- Health Informatics is revolutionizing healthcare by developing technology-based solutions to help both health professionals and patients

How Does Health Informatics Help?

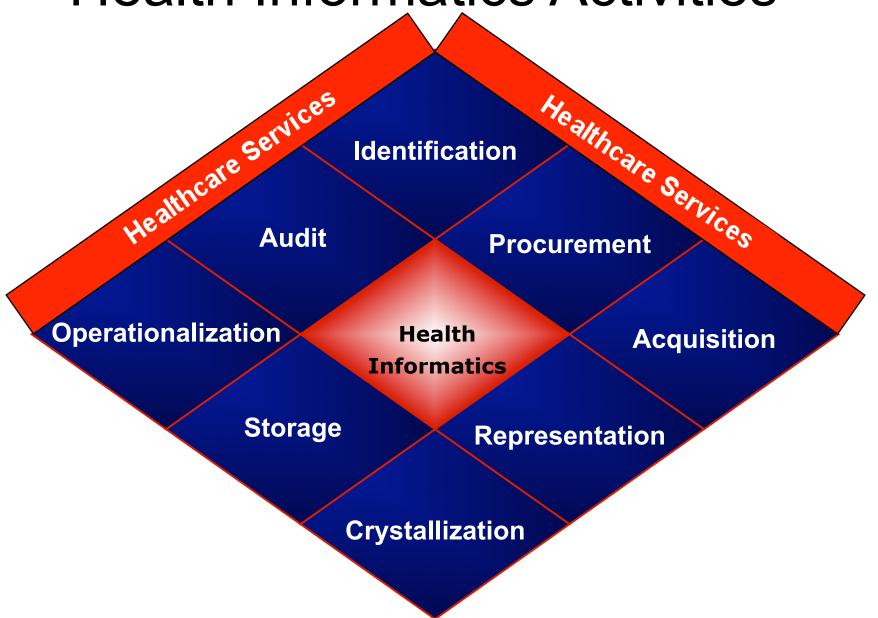
- ★ Record patient's health information in an electronic format
- ★ Manage flow of patient information between health professionals, departments and institutions
- ★ Offer patients easy & timely access to healthcare services
- ★ Inform health professionals about best evidence and practice guidelines
- ★ Provide decision support services to health professionals to reduce medical errors
- ★ Optimize healthcare resources to reduce cost and to improve efficiency
- ★ Improve patient safety and the quality of care
- ★ Facilitate remote healthcare at a patient's home

What do Health Informaticians Do?

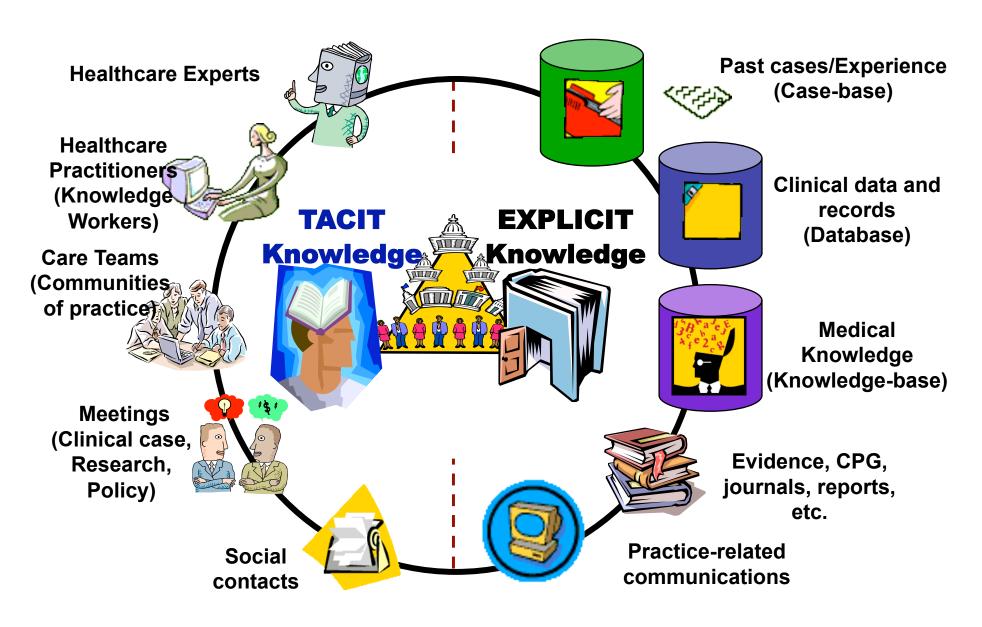
Health Informaticians *support*, *design*, *lead* and *manage* a variety of key healthcare components

Lead	Hospital Information Systems Management		stems	Health Technology Innovations & Research				
	Health Technology Deployment Teams		ŀ	Health Policy Teams		Health Standards		
Design	Hospital Information Systems		ems	Patient Support Services		t	E-Health Systems	
	Electronic Health Records Decis		ecision	ion Support Systems		ns Re	esearch Tools	Manage
Support	Knowledge Management Know		owledge	wledge Access Knowl			ledge Translation	
	Information Flow			Information Standards				
	Data Collection	Da Stora		Data Sharing		Data Analysis		

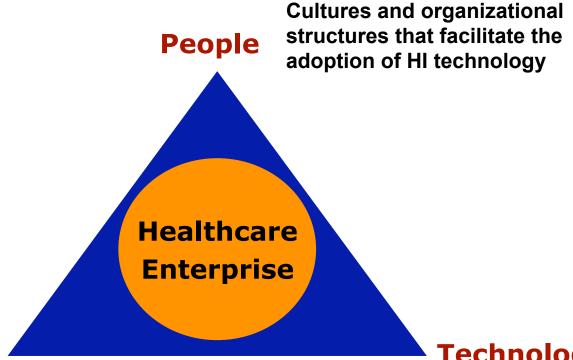
Health Informatics Activities



Health Informatics Knowledge



Health Informatics Environment



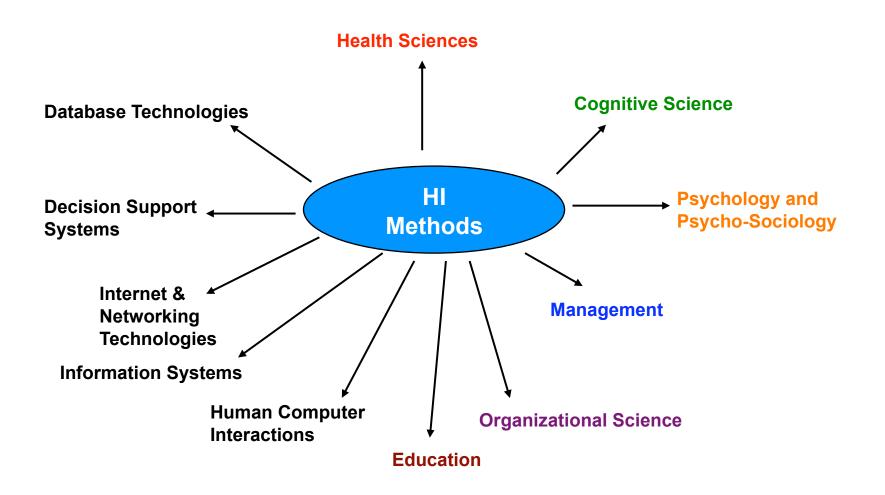
Processes

An operational environment that incorporates HI solutions within the workflow

Technologies

IT technologies and techniques

Health Informatics Solutions



State of Affairs: Possible Barriers to Health Informatics

- Potential of HI Technology
 - Culture
 - Infrastructure (Techniques and Technology)
 - Incentive
- Lack of Collaboration
 - Ad hoc means of communication
 - Paucity of resources (time, space, incentives, etc.)
 - Islands of operations
- Heterogeneity
 - Departments
 - Standards
 - Systems
 - No binding glue...

State of Affairs: Possible Barriers to Health Informatics

- Lack of Value Proposition
 - Upfront cost
 - Piecemeal initiatives

- 'Unawareness' to Health Informatics
 - What can be done?
 - Can it really be done?
 - How will this help healthcare? How will it help me, my department?

Health Informatics Outlook

- Health Informatics is
 - Needed
 - Needed to be done
 - Needed to be done correctly
 - Needed to be done correctly in stages
 - Needed to be done correctly in stages whilst involving all healthcare stakeholders

HI Internships

- NS Dept of Health
- IWK
- Ministry of Health Ontario
- QEII Renal Clinic/Medical Informatics
- NS Rehabilitation Centre
- Poison Control, IWK
- Cancer Care Nova Scotia
- Cancer Care NS Surveillance & Epidemiology
- Population Health Research Unit
- Eye Care Centre, VG
- Centre for Research in Family Health, IWK
- CIHI, Standards Department
- CIHI, Clinical Administrative Databases, Toronto
- CDHA
- Canada Health Infoway
- South West District Health Authority
- Federal Healthcare Partnership
- Sunnybrook Hospital (Aging & Veterans Care Directorate)

- College of Pharmacy, Dal
- Dept. of Radiology, Dal
- DME, Dalhousie University
- Urology, Dalhousie University
- AGFA (University of Waterloo)
- HeadQuarters Hair Solutions Clinic
- Medusa Medical
- Neusoft Co., LTD
- Barrington Consulting Group
- Nuvus Consulting Group
- SLIC Hair Removal Clinic
- Dr. Lief Surgurdson Inc.

The End