



Health Informatics as a Discipline

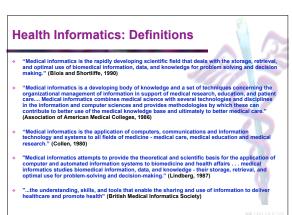
Health Informatics is concerned with all aspects of understanding 8 and promoting the effective organization, analysis, management, and use of information in healthcare.

8 What is information in healthcare?

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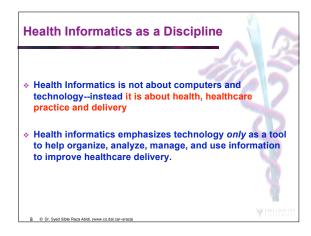
- formation about the patient's health
 Medical record, lab results, medical images, disease diagnostics Info
- Information about the treatment of the patient
 Investigation requisitions, prescriptions, referral letters, discharge summaries
- Information adjusticity, presulptions, release tenses, usurage summanes
 Information about the healthcare resources available within a healthcare environ
 Physicians/nurses on duty, number of beds available, drug formulary, imaging devices, operation theatres
- Information about medical procedures to support clinical decision
- Information about medical procedures to support clinical decisions
 Clinical protocols, inlined practice guidelines, best evidence, healthcare delivery p
 Information about public health and patient education
 Risk assessment, lifestyle modification, health improvement, health alerts
 Information for making healthcare policies
- Resource usage and cost, disease outbreaks, societal concerns (privacy of health inform

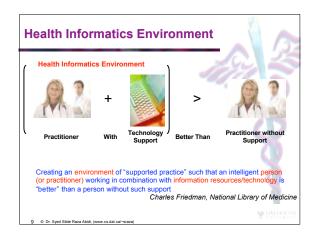


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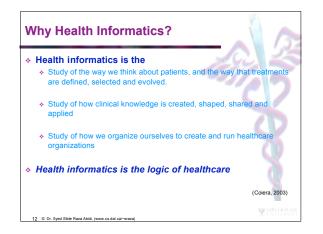
Role of Health Informatics

- Health informatics aims to help practitioners by
 Providing them efficient ways to capture, share and use patien information
 - Helping them to make better and informed decisions and action
 - Improving outcomes

10 C Dr. Syed Sibte Raza Abid







Why Health Informatics?

Health informatics allows

- Capturing all information about a patient's health status (over t lifetime)
- Sharing all information about a patient amongst all potential careproviders
- Providing patients easy and timely access to healthcare services
- Ensuring that care-providers are informed about the best possible care methods
- Reducing medical errors due to the lack of information and knowledge
 Optimizing the healthcare resources to reduce healthcare costs and to provide efficient services
- Training better practitioners and educating patients
- Making informed healthcare policies
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What does health informatics offer?

* Health informatics offers

- Health information systems
- Standards for recording health information
- Clinical support systems
- Communication systems (Internet based)
- Practitioner to practitioner
- Practitioner to patient
 Healthcare knowledge management
- Clinical practice guidelines, best evidence, terminologies
- Medical imaging systems
- Clinical data analysis systems
- Healthcare information retrieval systems
- Patient education programs (web-based)
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