

Introduction to  
**Medical  
informatics**

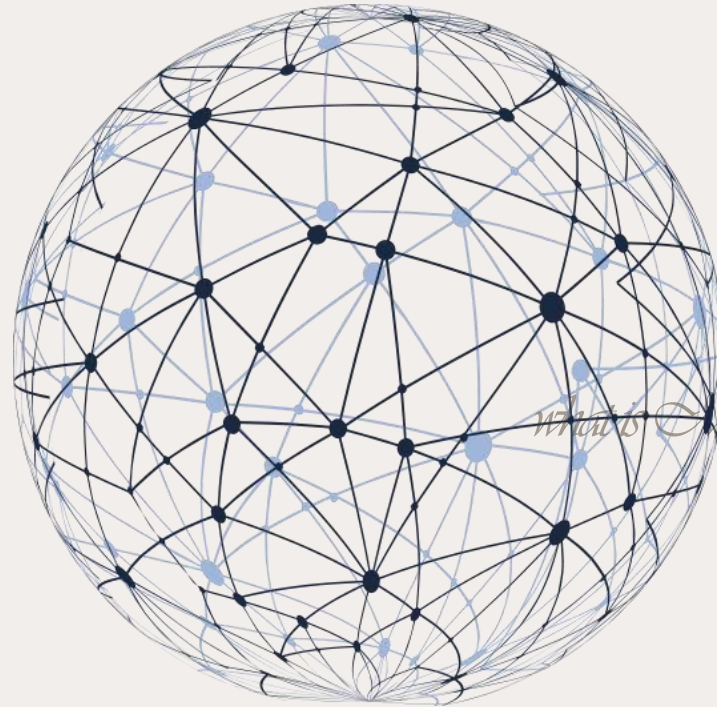


**Overview of Health Informatics**  
Lecture: 1

# Objectives

01.

*Introduction to information  
Technology*



02.

*What is Medical Informatics*



## *Information Technology*

- is the use of computer systems or devices to access information.
- Information technology is responsible for such a large portion of our workforce, business operations and personal access to information.
- Whether you are storing, retrieving, accessing or manipulating information, IT greatly impacts our everyday lives.
- Information technology is used by everyone from enterprise companies all the way down to one-person businesses and local operations.
- Global companies use it to manage data and innovate their processes
- Even in market sellers use smartphone credit card readers to collect payments.



# Healthcare functions and Information Technology



02.

Medical Informatics

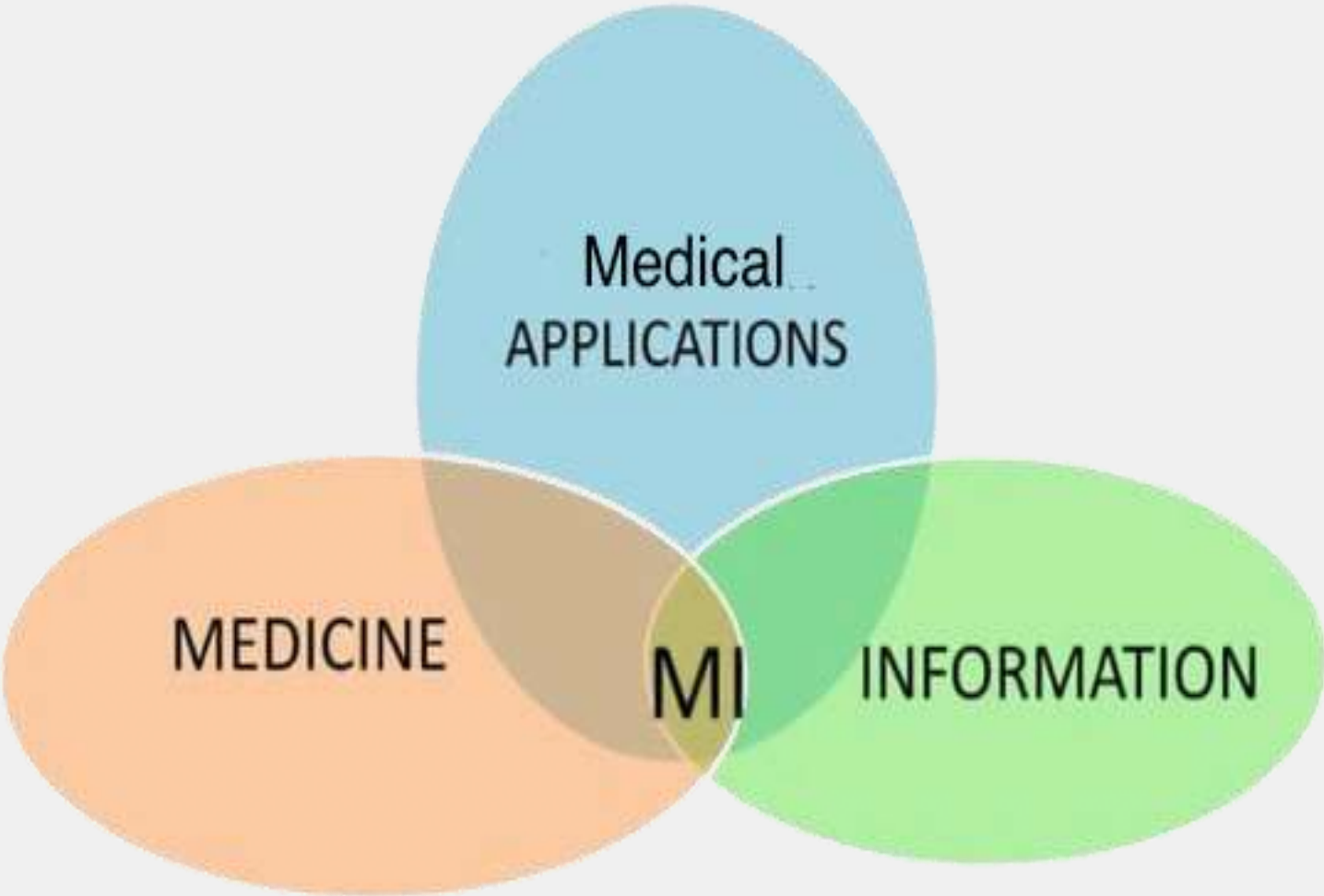
*Learn what is the medical  
informatics*



## *Medical Informatics*

- is a sub-discipline of health informatics where skills in both medical and computer sciences come together in an effort to improve healthcare and patient outcomes.
- The goal of medical informatics is to ensure patients have access to critical medical information at the exact time and place needed to make medical decisions.
- Medical informatics also focuses on managing medical data for research and education
- Medical informatics is a fast-growing field that involves the collection and analysis of healthcare data





## *Medical informatics applications and fields of work*

01. Clinical informatics

03. Informatics analyst

05. Informatics specialist



02. Pharmacy or nutrition informatics

04. Nurse informatics

06. Informatics manager





*The main positives of medical informatics*

01.Reduce the cost

03.Store patient records  
better and more efficiently

05.Improve results



02.Enhance coordination

04.Patient empowerment

06.Patient privacy



*The most important disadvantages of medical information*

01.They require time to adapt quickly.



02.Overreliance on technology

03.Hacker threats on the Internet

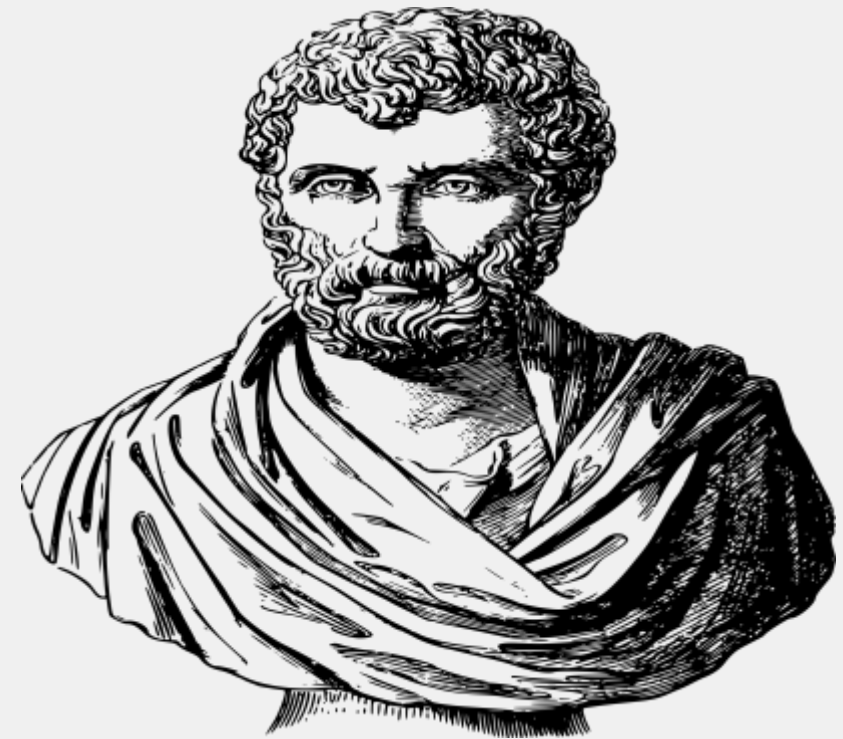


## *Medical Informatics Term*

The term of medical information dates from the second half of the 1970s and was borrowed from the French expression *informatique médicale*

..Before that time, other names were used such as:

- medical computer science
- Medical information science
- Computers in medicine
- Nursing informatics
- Dental informatics



## *Why Learn Medical Informatics?*

- Computers are fast and affordable today.
- And we want computers and IT shape our future now!
- Health informatics is the practice of acquisition, study and management Health data and application of health-related medical concepts Information technology systems to help doctors provide better health care.
- Health informatics, sometimes known as healthcare informatics, has grown as an evolving science with the expansion of electronic health records (EHRs) and health data analytics systems.



THANK YOU  
FOR LISTENING