



# History of Health Care

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## Chapter 1

# Do Now

- ✦ You have an infected sore, and the doctor uses leeches to treat the infection.
- ✦ Is this an ancient or modern treatment? Does it work?



# Introduction to History of Health Care

- ✦ Skim Tables 1-1 through 1-8 and write in your composition notebooks:
- ✦ 3 things you knew or have heard of
- ✦ 3 things you didn't know
- ✦ 3 things you want to learn more about
  - ✦ Of the three things you want to learn more about, list 3 resources that you can use to find out more about them.

# Objectives



- ✦ Differentiate between early beliefs and the cause of disease and treatment and current beliefs about disease and treatment
- ✦ Identify at least 10 major events in the history of health care.
- ✦ Name at least 6 historical individuals and explain how each one has helped improve health care.
- ✦ Create a timeline showing what you believe are the 20 most important discoveries in health care and why.

# Timelines

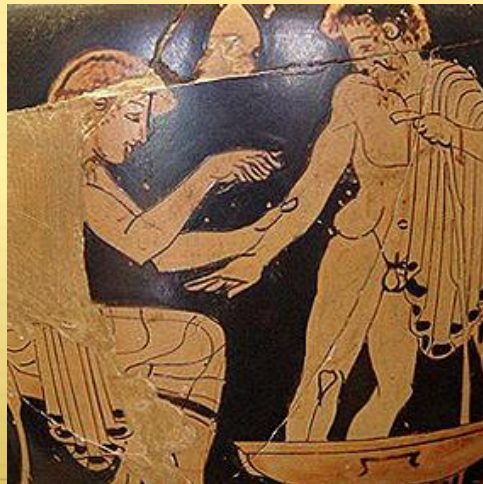


- ✦ Due Monday 8/29
- ✦ Graded on the following rubric:
  - ✦ 20 total events /people identified (10 pts)
  - ✦ Correct dates (10 pts)
  - ✦ 5 arrows showing relationships between a set of two items and how they are connected (10 pts)
  - ✦ Neatness, creativity, and pictures (10 pts)

# ANCIENT TIMES

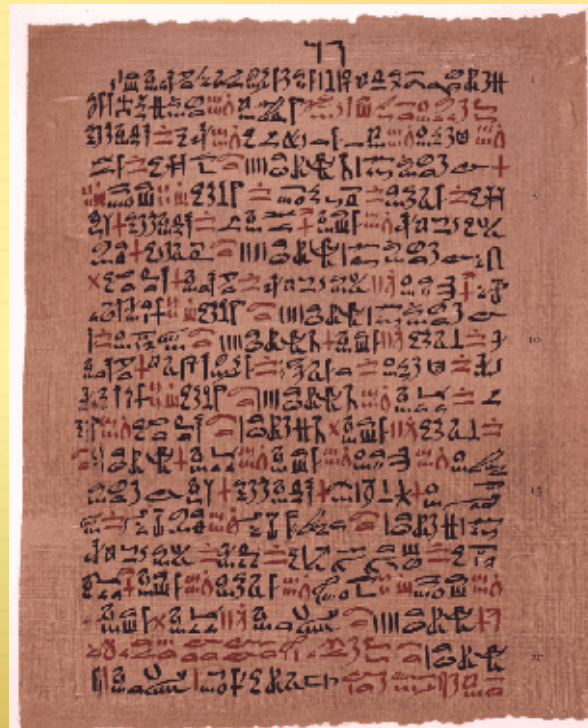


- ✦ Belief that disease and illness caused by demons and evil spirits.
- ✦ Belief that disease was punishment from gods.
- ✦ Treatments directed towards eliminating evil spirits through religious rites and ceremonies.



# ANCIENT EGYPTIANS

- ✦ 3000-300 B.C.
- ✦ First people to record health records (by priests)



# ANCIENT CHINESE

- ✦ 1700 BC-220 AD
- ✦ Strong belief in the need to cure the spirit and nourish the entire body.
- ✦ Today's holistic health methods stress treating the entire patient—mind, body, and soul.
- ✦ Acupuncture to relieve pain and congestion.





# ANCIENT GREEKS

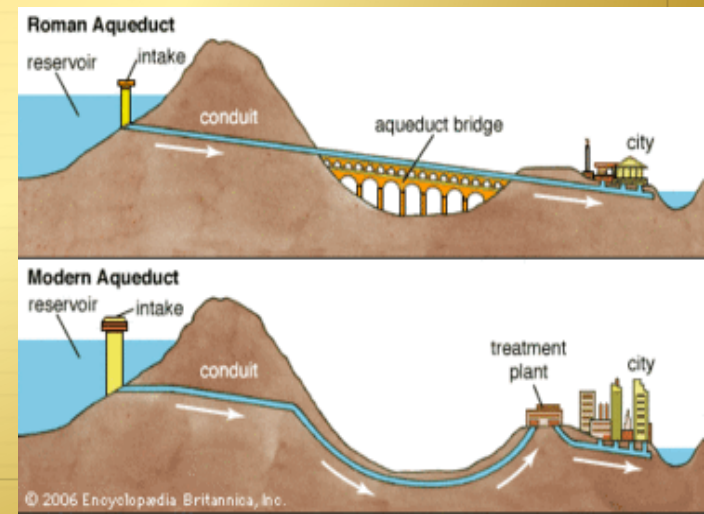


- ✦ 1200-200 BC
- ✦ Hippocrates: father of medicine, “Hippocratic Oath”
- ✦ Established that disease is caused by natural causes, not supernatural spirits and demons
- ✦ First culture to stress that a good diet and cleanliness would help prevent disease



# ANCIENT ROMANS

- ✦ 753-400 AD
- ✦ Realized that some disease was connected to filth, contaminated water, and poor sanitation.
- ✦ Began development of sanitary systems
- ✦ Sewers, aqueducts, drained swamps and marshes, laws to keep streets clean
- ✦ First hospitals for soldiers, ill people
- ✦ Galen and the Non-Naturals



# Do Now




✦ You are a practicing physician preparing to treat a 67 year old male complaining of cough, runny nose, and shortness of breath.

- 1. What common ailment might you diagnose this patient with?**
- 2. What would you recommend your patient do to help his symptoms?**
- 3. What ancient civilization was the first to create health records?**

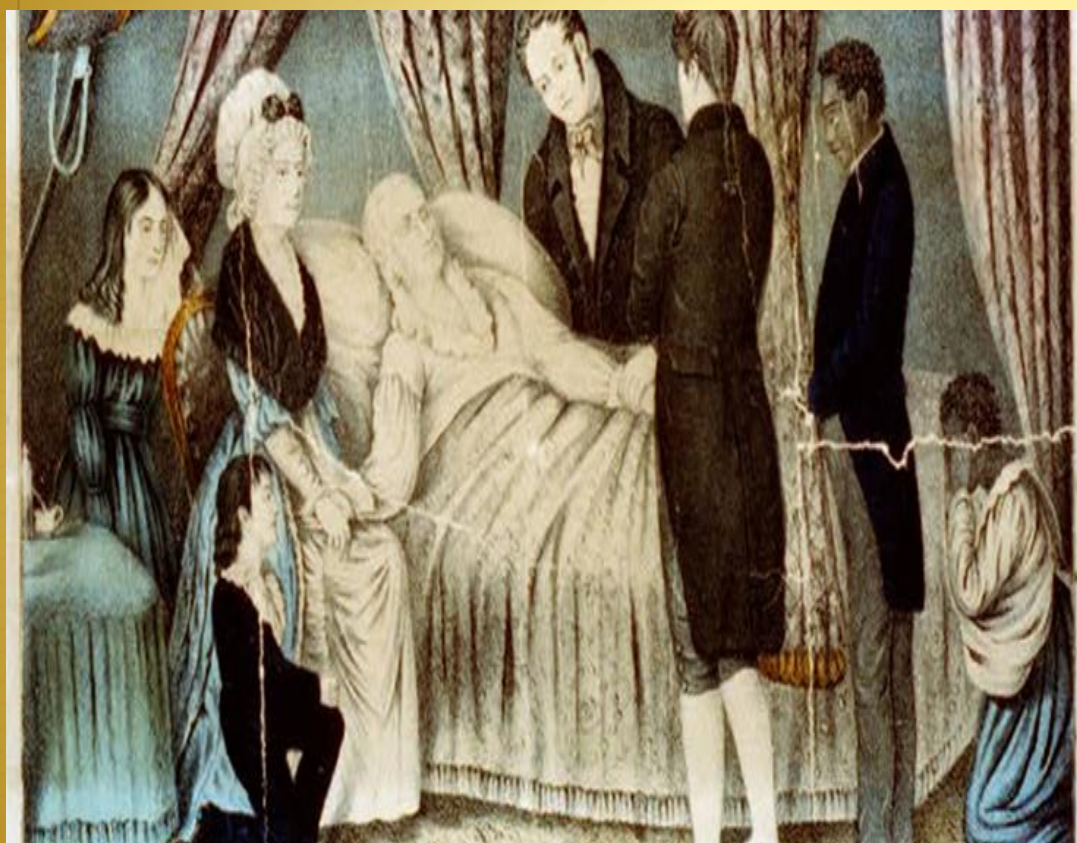
# George Washington's Excruciating Final Hours

- ✦ December 14, 1799—Washington goes on a horseback ride in the freezing rain. Complains of chills, shortness of breath.
- ✦ 2 am—Washington awakes with profound shortness of breath
- ✦ 6 am—Washington develops fever, breathing becomes more labored
- ✦ 7:30—12 to 14 ounces of blood removed, tonic of butter, molasses, and vinegar administered.

# Washington's Final Hours



- ✦ 9 am—Dr. Craik does “Spanish Fly Treatment”
- ✦ 9:30 am—another 18 ounces of blood removed
- ✦ 11 am—32 ounces of blood removed, followed by a dose of calomel and tartar emetic.
- ✦ 10 pm—Washington dies.
- ✦ **In total, doctors remove 80 ounces, or almost 40% of his total blood volume!!!**



# The Non-Naturals



- ✦ Key to understanding attitudes about early health
- ✦ Health=balance
  - ✦ Air
  - ✦ Food and drink
  - ✦ Sleep and watch
  - ✦ Evacuation and repletion
  - ✦ Motion and rest
  - ✦ Passions of the mind

# Dark Ages

- ✦ 500-1000 AD
- ✦ Fall of Roman Empire, study of medicine stopped.
- ✦ Individuals again lived in filth, little to no hygiene.
- ✦ Epidemics of smallpox, dysentery, typhus and plague.
- ✦ Monks and priests stressed prayer to treat illness.





# Mesoamerican Medicine



- ✦ 1100 AD
- ✦ Aztec culture in central Mexico
- ✦ Three main causes of illness/disease
  - ✦ Supernatural-displeasure of gods
  - ✦ Magical-curses, sorcery
  - ✦ Natural
- ✦ Treatments depended on category of disease



# Middle Ages

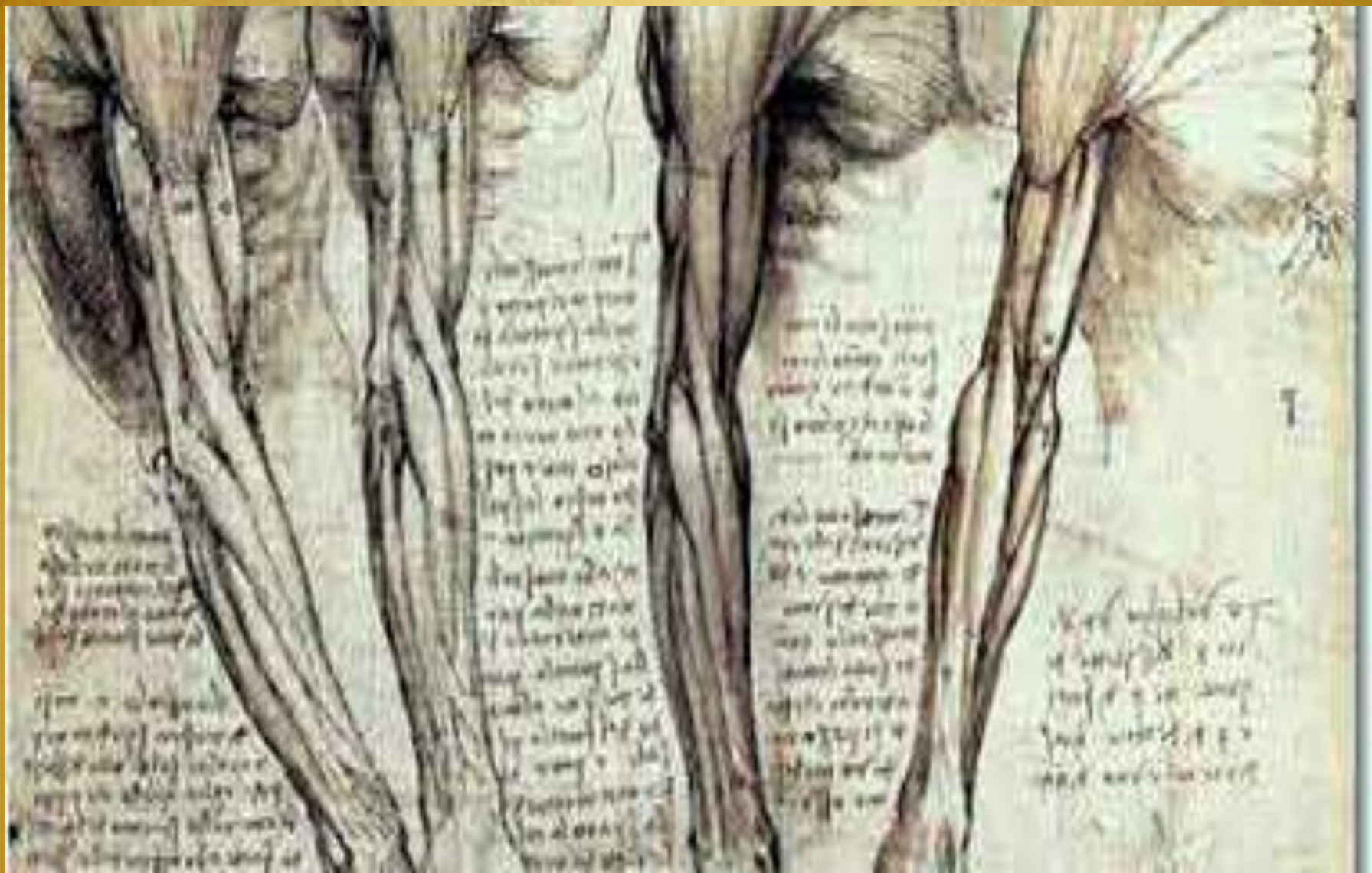


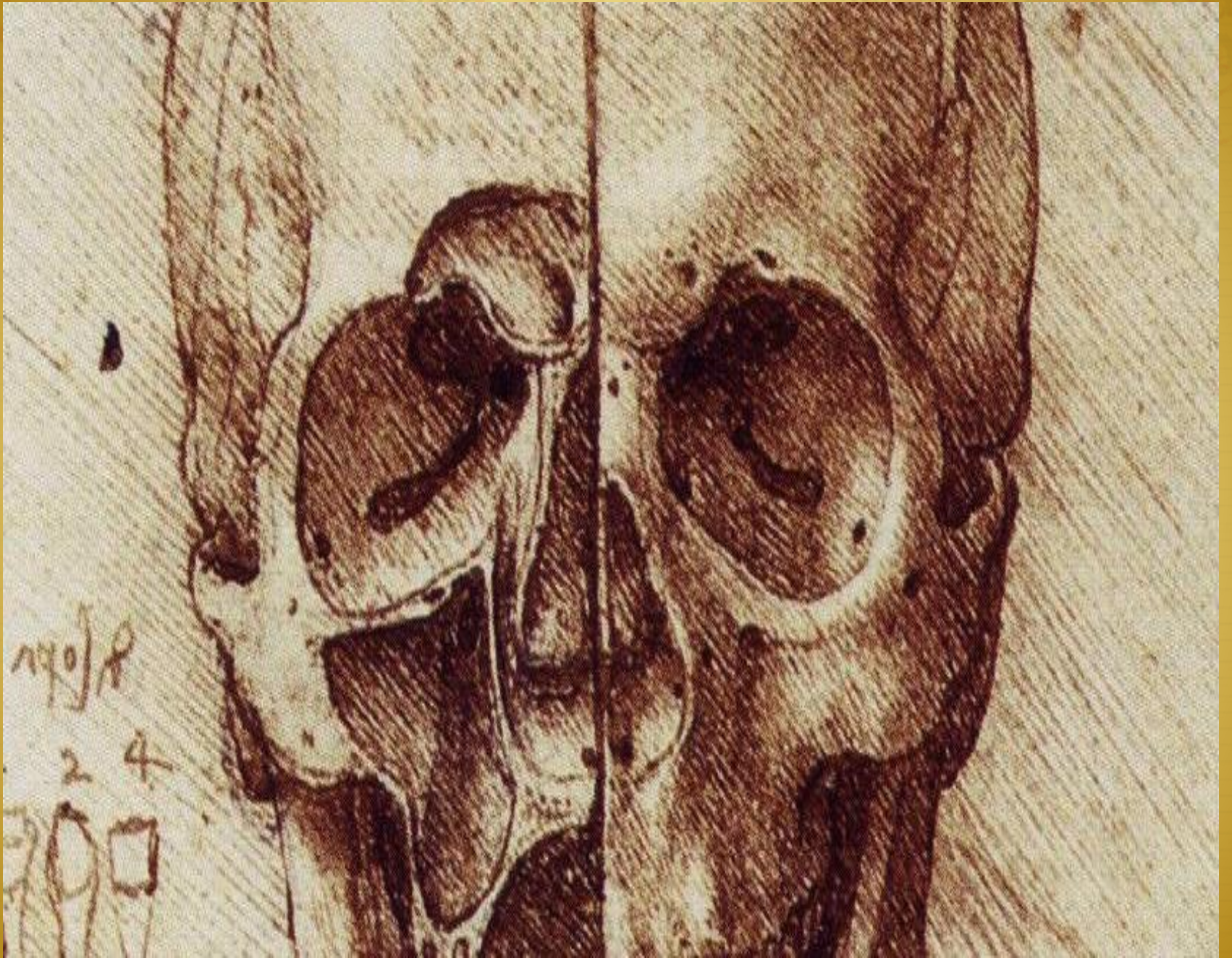
- ✦ 11<sup>th</sup>-14<sup>th</sup> Century
- ✦ Renewed interest in medicine
- ✦ Translated writings of Greek/Roman physicians
- ✦ Medical universities created to train physicians
- ✦ 1300's, epidemic of bubonic plague killed almost 75% of population of Europe and Asia.

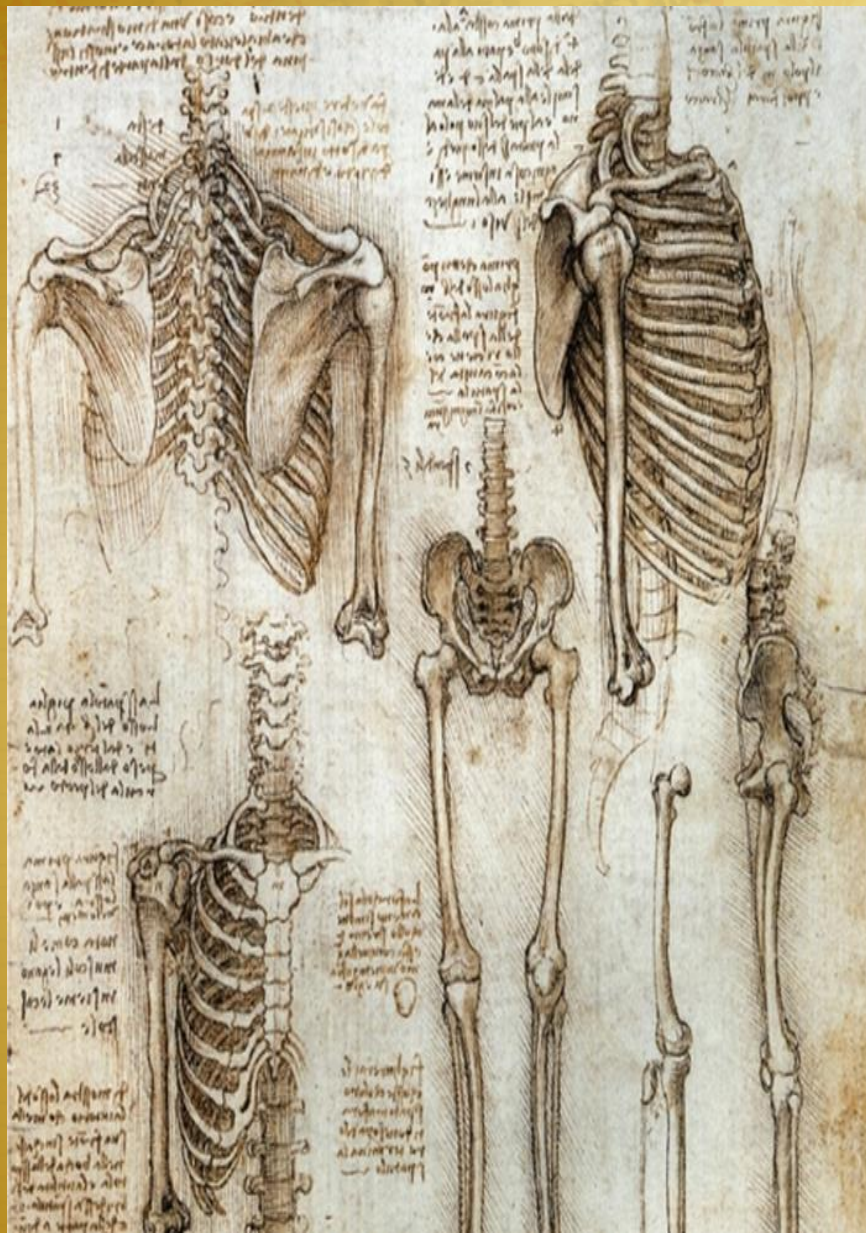
# Renaissance

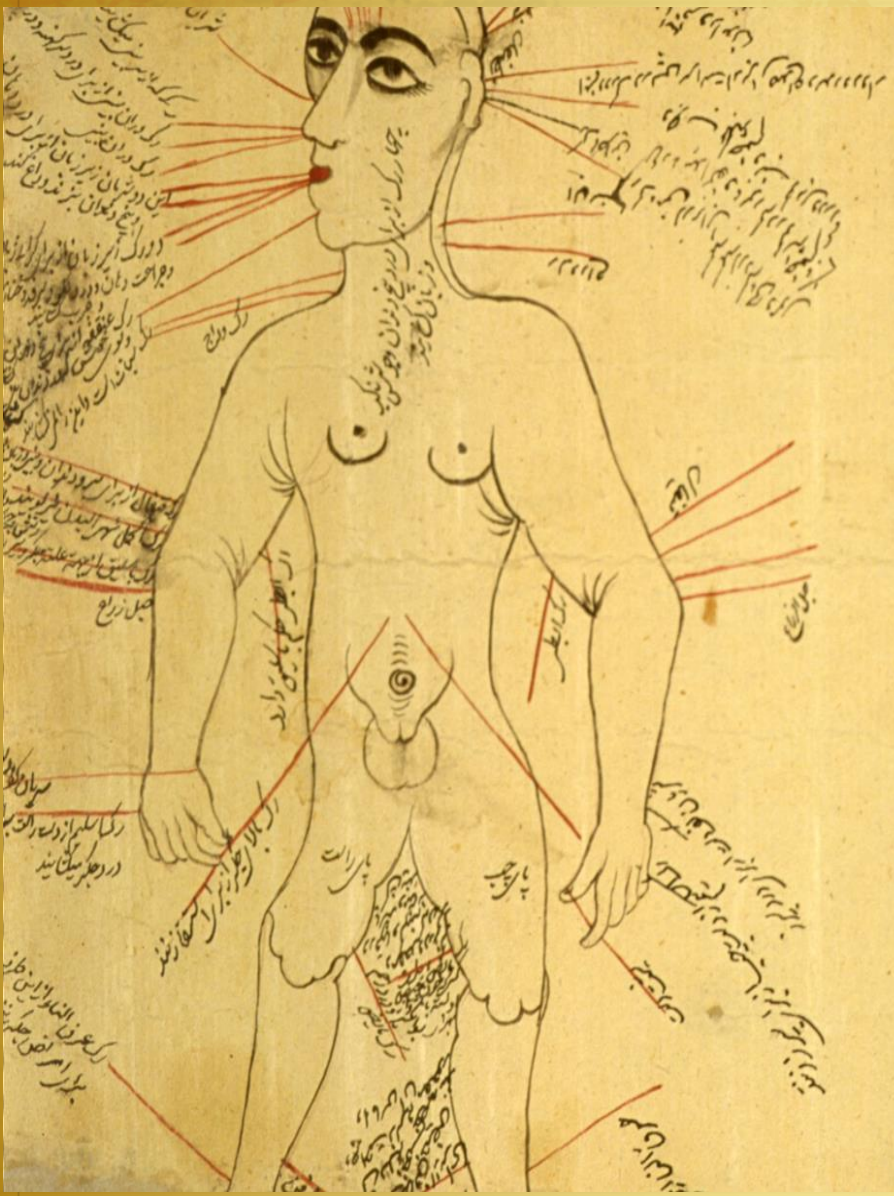
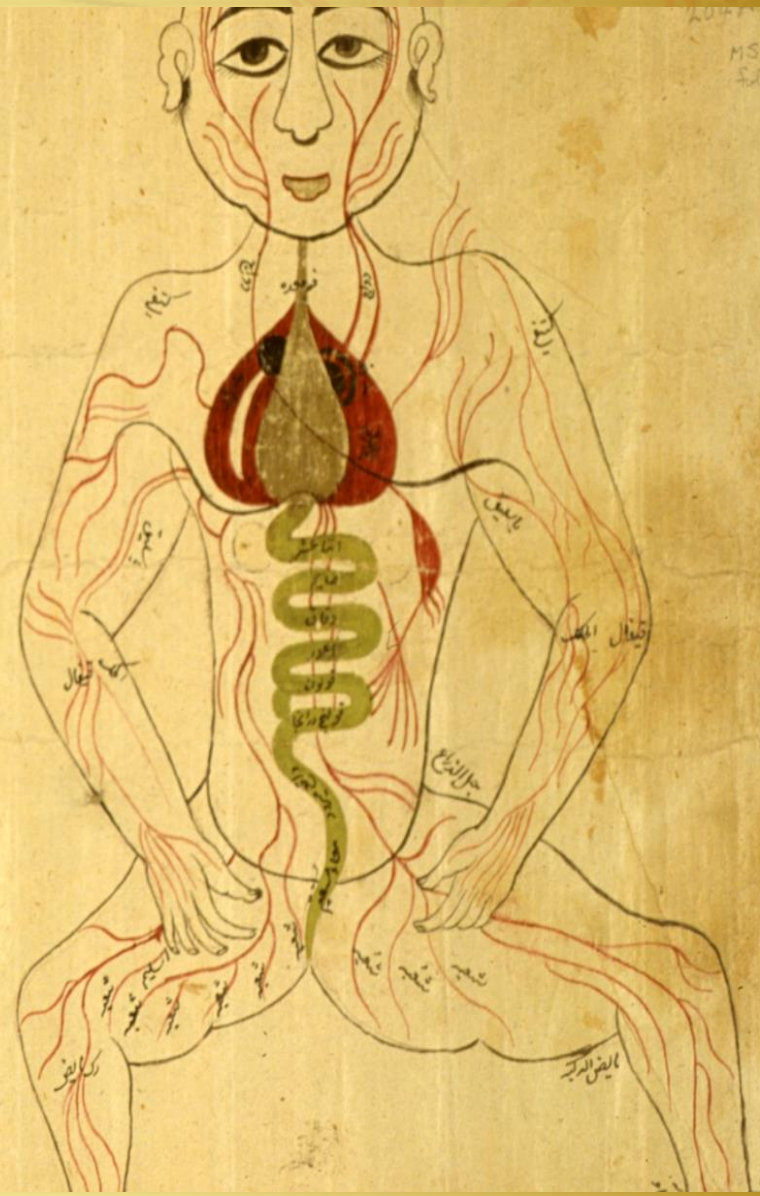


- ✦ 1350-1650, “rebirth of scientific medicine”
- ✦ Major source of new information was result of allowing human dissection
- ✦ Artists such as Michelangelo and Leonardo da Vinci were able to draw the body accurately
- ✦ Actual cause of disease still remained a mystery









# 16<sup>th</sup> / 17<sup>th</sup> / 18<sup>th</sup> Centuries



- ✦ Physicians gain increased knowledge of human body
- ✦ **Anton van Leeuwenhoek:** invented microscope
- ✦ **Edward Jenner:** invented vaccine for smallpox
- ✦ Apothecaries for medications began
- ✦ Average life span increased to 40-50 years





# 19<sup>th</sup> Century (1800's)



- ✦ Industrial revolution: access to more machines and books
- ✦ **Rene Laennec** invented stethoscope
- ✦ **Florence Nightingale**: founder of modern nursing. Used statistics to prove that number of deaths decreased with improved sanitary conditions.
- ✦ Infection control: microorganisms associated with disease.
- ✦ Many vaccines and medications developed.



Nursing is an art: and if it is to be made an art, it requires an exclusive devotion as hard a preparation, as any painter's or sculptor's work; for what is the having to do with dead canvas or dead marble, compared with having to do with the living body, the temple of God's spirit? Nursing is one of the Fine Arts: I had almost said, the finest of the Fine Arts.

(Florence Nightingale)

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# 19<sup>th</sup> Century



- ✦ **Joseph Lister and Louis Pasteur** develop methods to stop spread of disease.
- ✦ **Elizabeth Blackwell**: first female physician in US
- ✦ **Dorothea Dix**: appointed superintendent of Female Nurses of the Army
- ✦ **Clara Barton**: founder of American Red Cross, provided aid to wounded soldiers during Civil War.

# 20<sup>th</sup> Century (1900's)



- ✦ **William Roentgen** develops X-rays to view human body
- ✦ Causes for many diseases identified (virus or bacteria)
- ✦ Insulin for diabetes, antibiotics for infections.
- ✦ **Francis Crick and James Watson: credited** with discovery of the structure of DNA.
- ✦ Infection control, computer technology
- ✦ Access to affordable, quality healthcare a priority

# 21<sup>st</sup> Century (2000's)

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- ✦ 2003-completion of human genome project
- ✦ Embryonic stem cell research
- ✦ Threats to health care: bioterrorism, pandemics (worldwide epidemics)
- ✦ Genetically modified organisms

