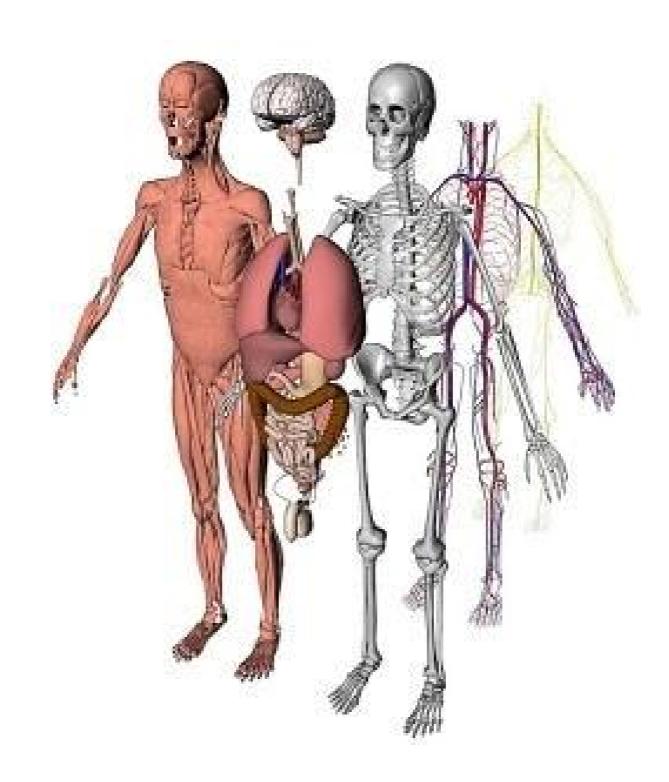


Objectives

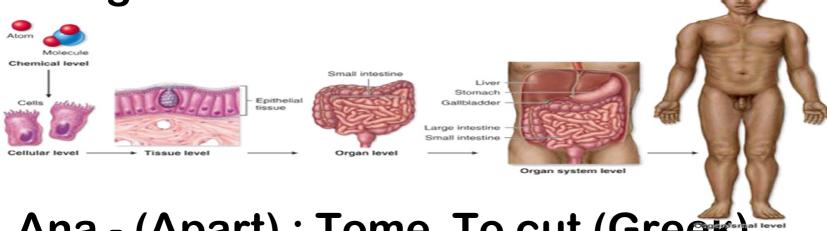
- 1. Definition
- 2. Need to study anatomy.
- 3. Subdivisions of anatomy
- 4. History of anatomy



Anatomy

• The branch of science which deals with the structural organization of living being.

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• Ana - (Apart) : Tome To cut (Greek)

Dissecare (Latin): To cut apart

Why do doctors study Anatomy?

- Symptoms and Signs
- Localize Pain, Lumps
- Withdrawing blood, injections
- Medical procedures
- Correction Surgeries



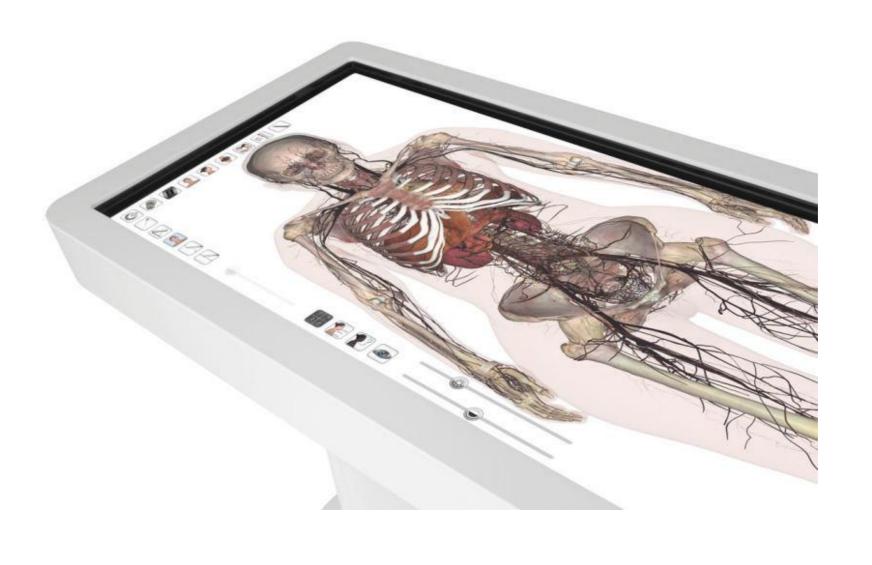
Subdivisions of Anatomy

- Cadaveric Anatomy
- Living Anatomy
- Developmental Anatomy
- Microscopic Anatomy
- Surface Anatomy
- Radiographic Anatomy
- Applied Anatomy
- Experimental Anatomy
- Genetics
- Comparitive Anatomy
- Physical Anthropology

Cadaveric Anatomy

Gross Anatomy Macroscopic Anatomy







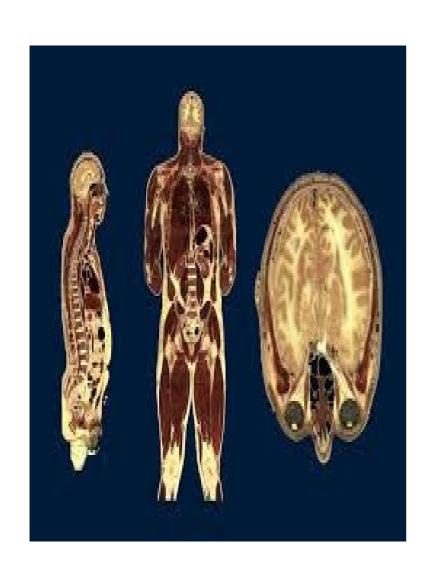


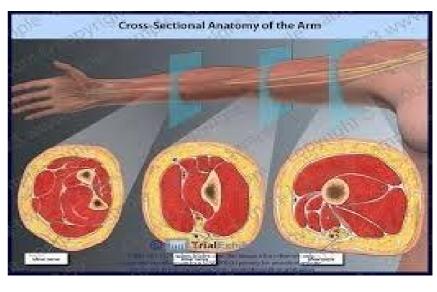
- **REGIONAL ANATOMY**
 - Head and neck
 - Brain
 - -Thorax
 - Abdomen
 - Upper Limb
 - Lower limb

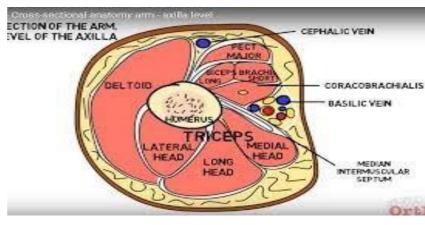
SYSTEMIC ANATOMY

- Integumentary system
- Skeletal system
- Muscular system
- Nervous system
- Cardiovascular system
- Lymphatic system
- Endocrine system
- Digestive system, Respiratory system, **Urogenital** system

Cross Sectional Anatomy







Living Anatomy

Inspection



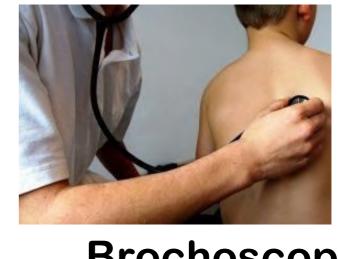
Percussion



Otoscope

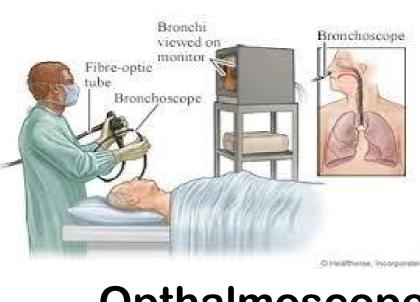


Auscultation



Brochoscope





Opthalmoscope



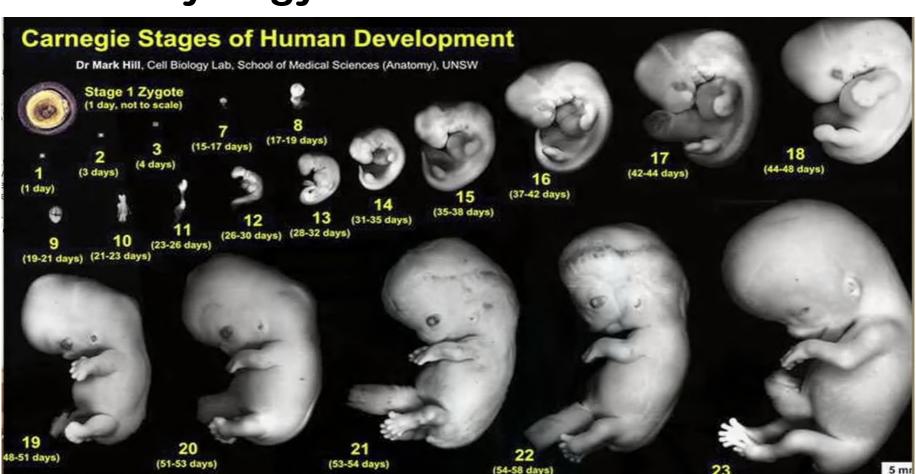






Developmental Anatomy

Embryology



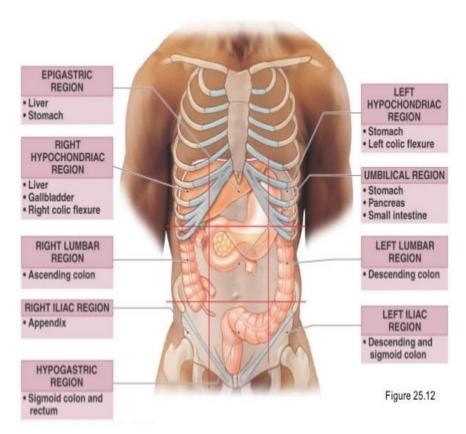
Microscopic Anatomy

Histology

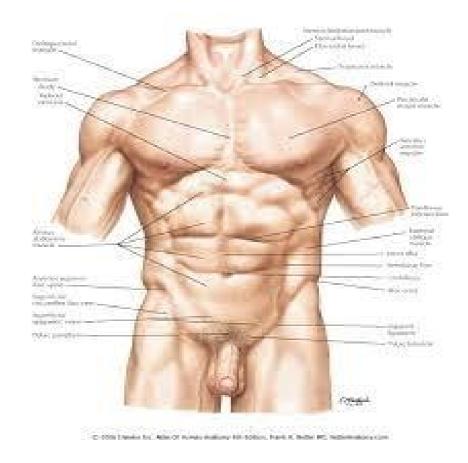




Surface Anatomy



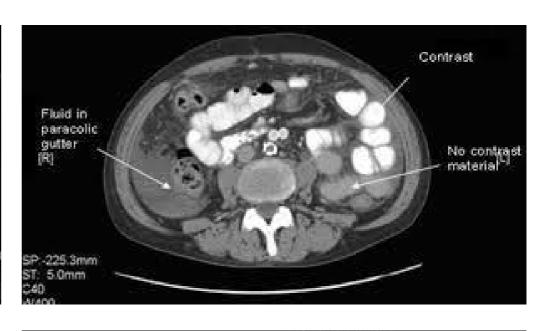
The stomach – intraperitoneal, occupies the left hypochondriac, epigastric, and portions of the umbilical and left lumbar regions



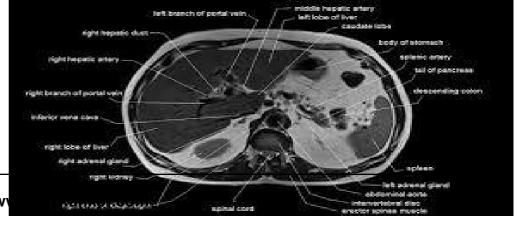
Radiographic Imaging Anatomy





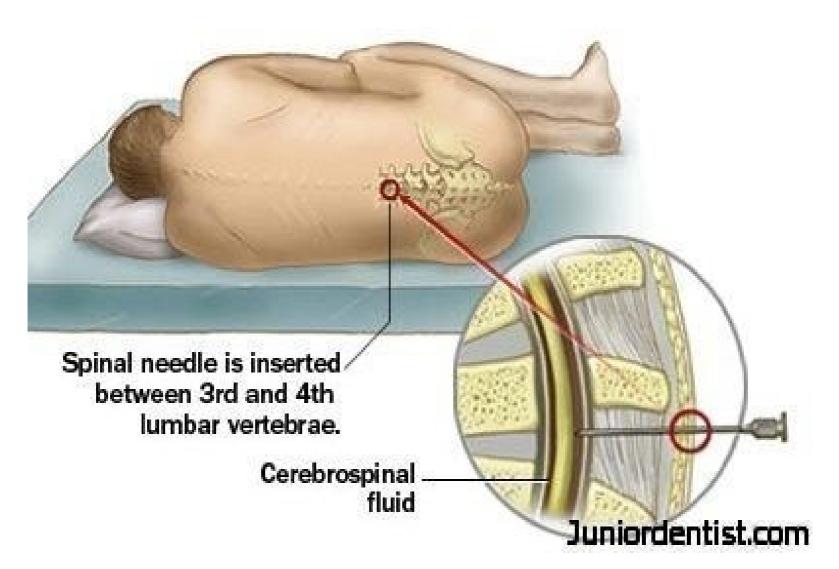




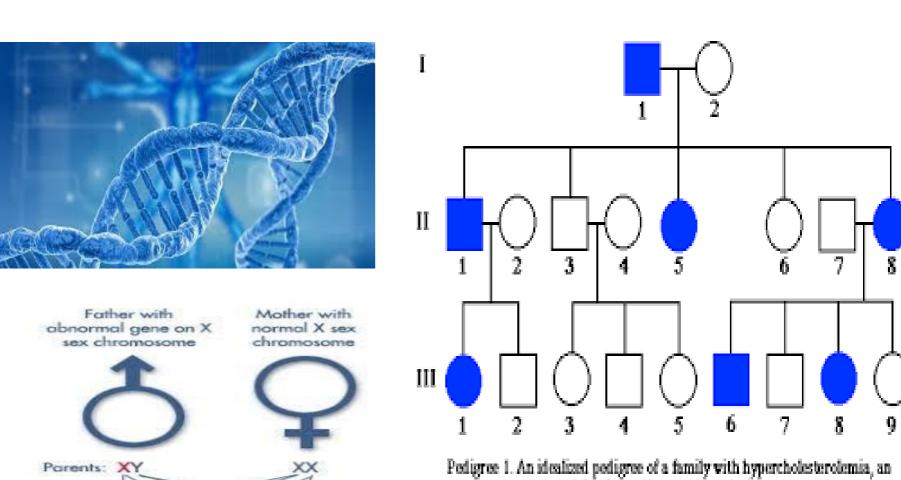




Applied Anatomy

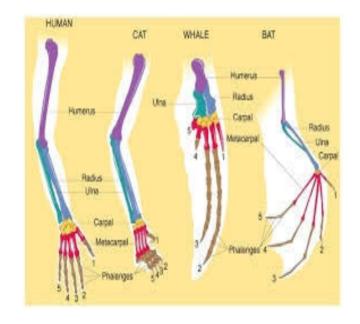


Genetics

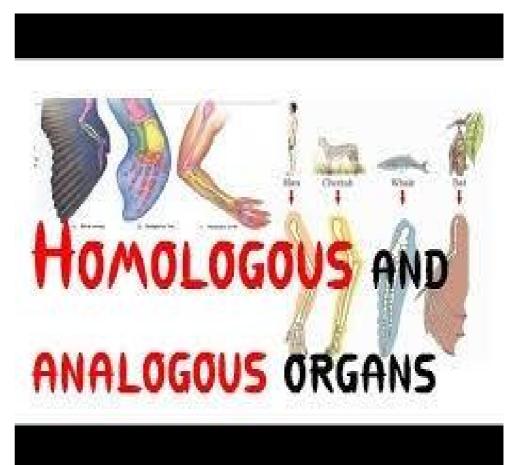


Pedigree 1. An idealized pedigree of a family with hypercholesterolemia, an autosomal dominant disease where the heterozygote has a reduced number of functional low density lipoprotein receptors.

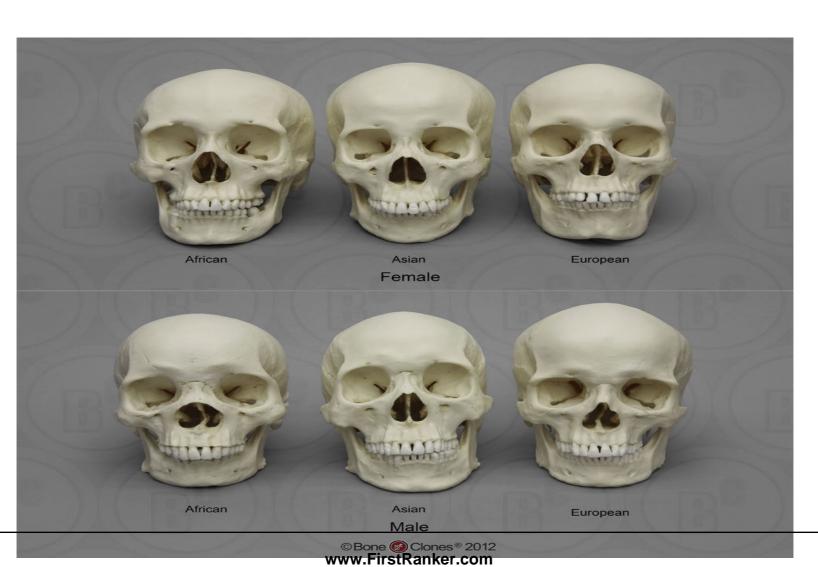
Comparitive Anatomy



Offspring: XX



Physical Anthropometry







No science is complete without the knowledge of its HISTORY.

HISTORY OF ANATOMY

"The past is not dead history, it is living material out of which man builds for the future".

Rene Dubos (1901-1982)

Beginning Of Civilization

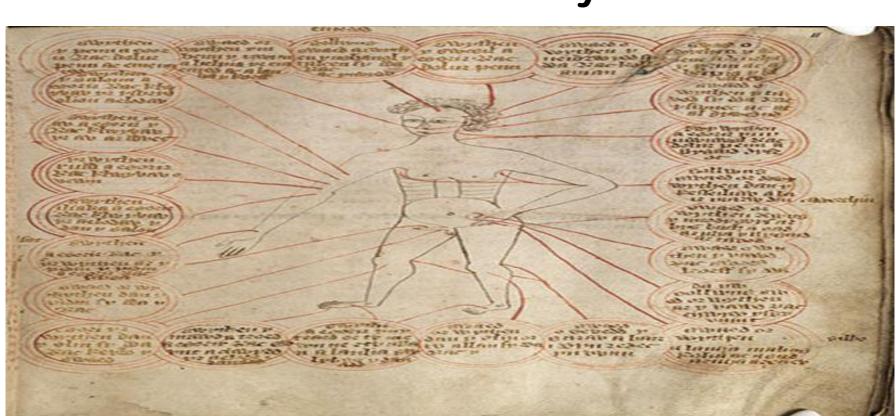
- Art of Killing
- Not the Art of Healing





2700 - 2600 BC

- "Neiching" China
- Earliest Book on Anatomy.



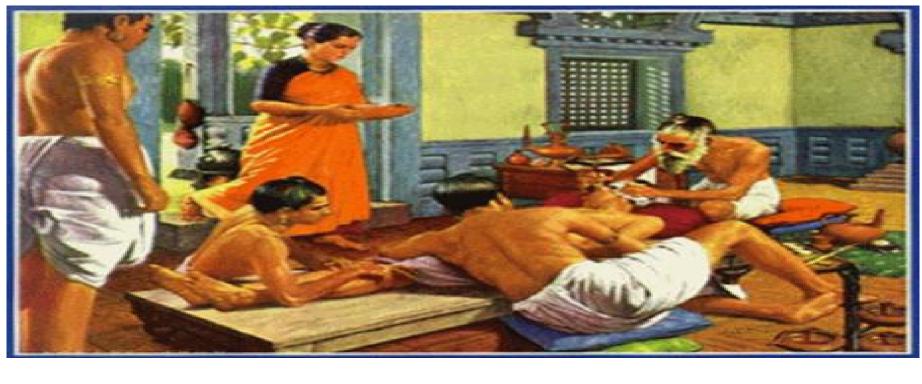
1700 – 1600 BC

- "Mummification" Egypt
- Removal of putrifiable organs.
- Lost glory :Alexandrian school burned



1000 BC

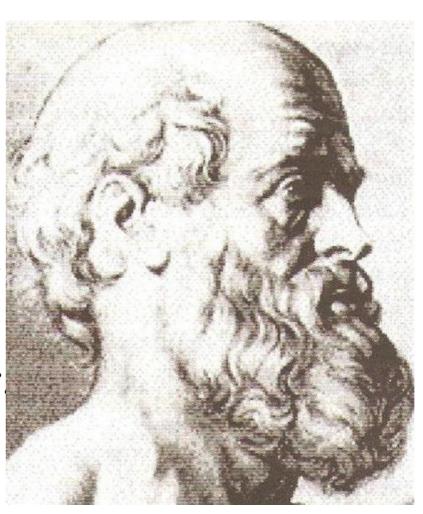
- India
- Susrutha, Charaka, Dhanvanthari
- Surgery Practices



Hippocratus

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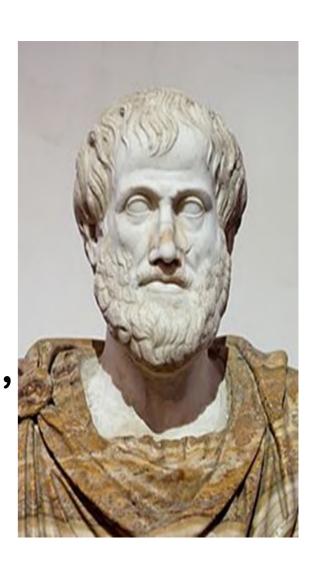
- 460-377 BC
- Greek physician
- Father of Medicine
- Founder of Anatomy.
- Guidelines, Scalpel,
 Deadbodies from war





Aristotle

- 384 322 BC
- Term "Anatomy",
- Accounted Embryology,
- Named arteries and veins.
- Heart Centre of emotions, intelligence.



Herophilus

- 325 300 BC
- Father of anatomy.
- Dissected criminals
- Brain Intelligence centre.
- Defined parts of Brain and Spinal cord.



Birth of Christ

BC

AD

Galen of Pergamum

- 130 210 AD
- Prince of physicians
- Dissected monkeys and animals.
- Importance of spinal cord and nervous system.
- Never thought of Pulmonary

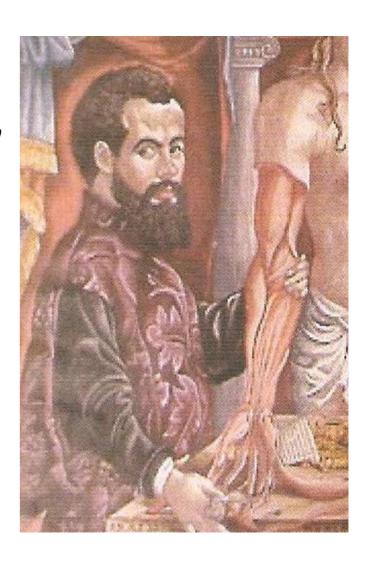
circulation.

Blood flows through pores of heart



Anderas Vesalius

- 1514 1654
- De humani corporis fabrica
- Father of Modern Anatomy
- 'Reformer of Anatomy'

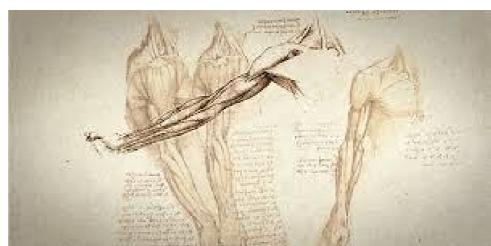


Leonardo da Vinci

- 1452 1519
- Italian "AllRounder"







Gray's Anatomy

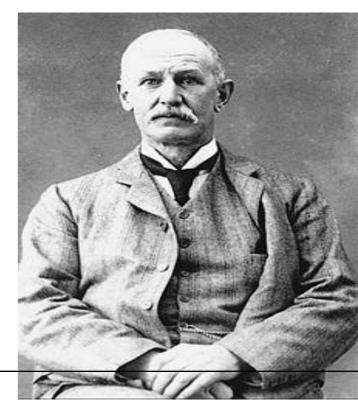
- Henry Gray & Henry Vandyke Carter
- St George's Hospital Medical School in London
- First publication:1858





Daniel John Cunningham

- Scottish Anatomist. 1850-1909
- Cunningham's Text-book of Anatomy and Cunningham's Manual of Practical Anatomy





Illegal Trade

- Burke and Hare murders.
- Robert Knox







Anatomy Act 1832

- Act of Parliament of the UK.
- Gave free licence to doctors, teachers of anatomy and medical students to dissect donated bodies.
- It was enacted in response to public revulsion at the illegal trade in corpses.

Embalming

 Art and Science to preserve human body with the help of certain chemicals (Formaldehyde, glycerin, etc).



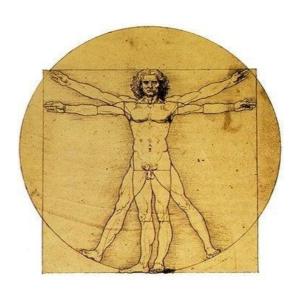




Q 1. Which surgeon of ancient India is also called as "Father of Surgery"?

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- A. Charak
- **B.** Sushruta
- C. Atreya
- D. Dhanvantri



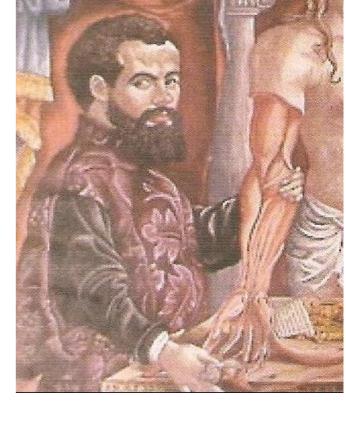
Q 2. Name the famous Greek Physician who is also called as the "Father Of Medicine"

- A. Aristotle
- B. Plato
- C. Hippocrates
- D. Herophilus



Q 3. Who is often referred to as the "Father Of Modern Anatomy"

- A. Leonardo Da Vinci
- B. Andreas Vesalius
- C. William Harvey
- D. Antonie Van Leeuwenhoek



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