Definition & Branches of Anatomy

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DEFINATION OF ANATOMY

Anatomy

The word anatomy is the combination of two Greek words; ana =apart, tomas =to cut.

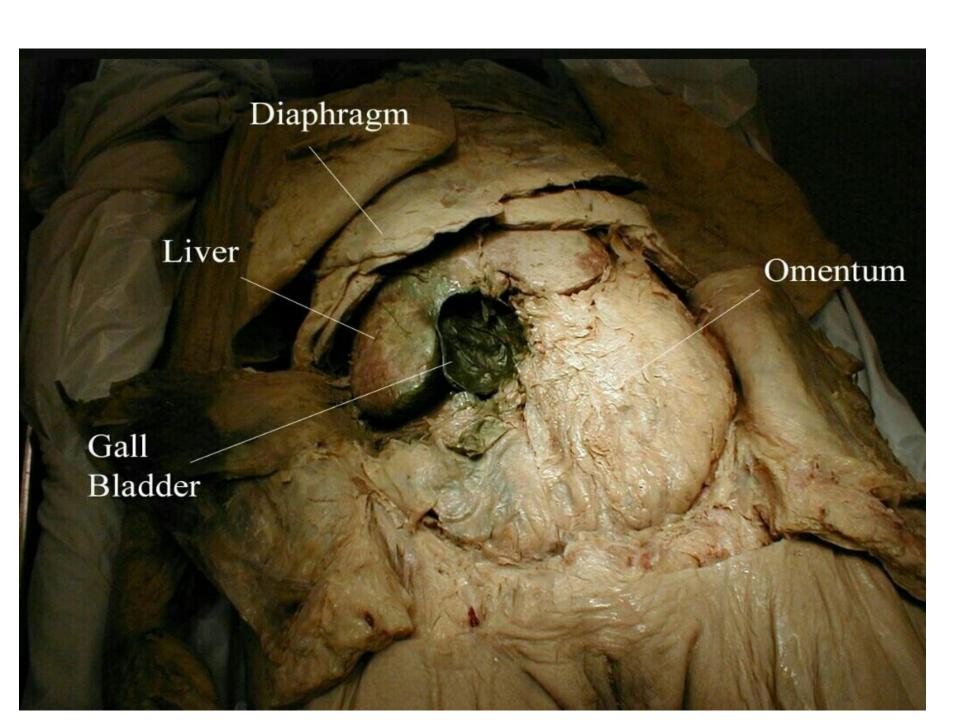
- The science that deals with the structure & organisation of the body.
- Studies of the body parts & their relationship.
- By means of dead body/Cadaver dissection.

Branches of human anatomy:

- **>**Gross Anatomy/cadaveric
- > Histology
- **Embryology**
- >Surface Anatomy
- >Living Anatomy
- >Clinical Anatomy
- > Radiological Anatomy.
- > genetics

GROSS ANATOMY

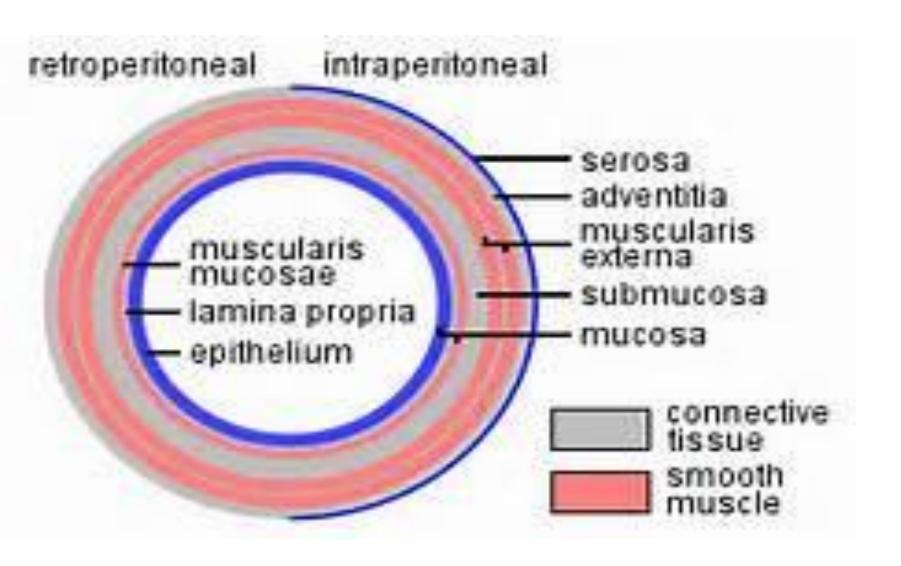
- Gross anatomy is the study of macroscopic details of human body structure.
- It also called cadaveric anatomy
- Cadaveric anatomy is studies on dead bodies usually with the naked eye
- Can be further divided into;
- 1. Regional anatomy-upper/lower limb, neck, abomen, thorax
- 2. Systemic anatomy- muscular, git, endocrine



HISTOLOGY

- Also known as microscopic anatomy.
- It deals with the microscopic details of tissues that make human body.
- Many kinds of tissues are present in human body.
- 1. Epithelial tissue
- 2. Connective tissue
- 3. Muscular tissue
- 4. Nervous tissue

Diag. of histology

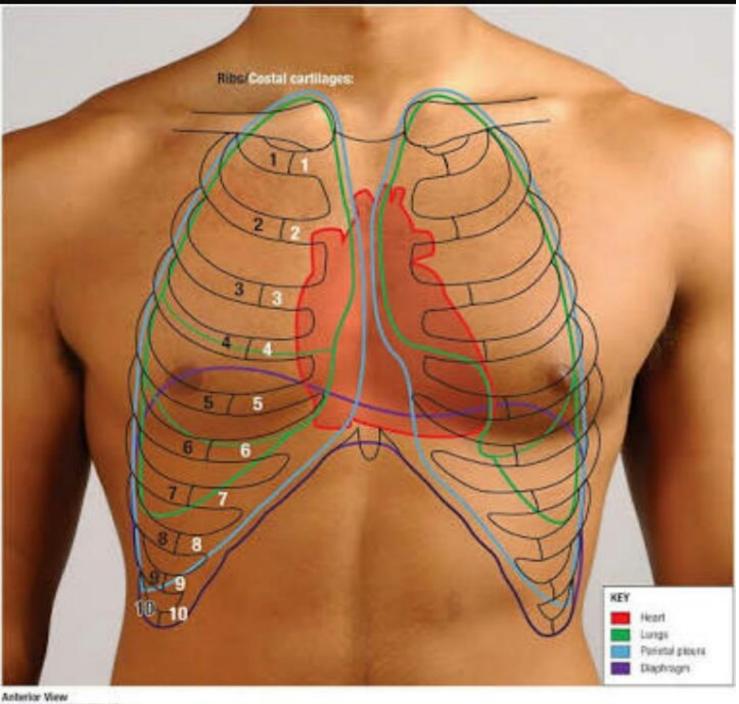


SURFACE ANATOMY

• Surface anatomy is the study of deeper parts of the body in relation to the skin

• It is helpful in clinical practice and surgical operations

• It is also known as topographic anatomy.



EMBRYOLOGY

• It is study of development of an embryo from a single cell to a human being complete before birth.

• Provides details of prenatal developmental changes in the body

Zygote

DEVELOPMENT





Mitosis begins (cleavage)



Differentiation (cells begin to change)





Growth (more cells)





CLINIC&L &N&TOMY

• Clinical anatomy is the application of anatomical knowledge to the medical and surgical practice.

It is also called applied anatomy

LIVING ANATOMY

- methods like dissection cannot be applied.
- Techniques to study living anatomy include palpation(feeling), percussion (tapping) & auscultations(listening), inspection (obervation) etc.

Radiological anatomy

- The study of the bones and deeper organs by plain and contrast radiography by usg and ct sacan
- In this branch we study the body by using various radiological and imaging
- Example are X-RAY. MRI. etc

GENETICS

- It is study of heredity , the process of transmission of genes from parents to daughters
- It can play role in the causation of defects and diseases

Thankyou