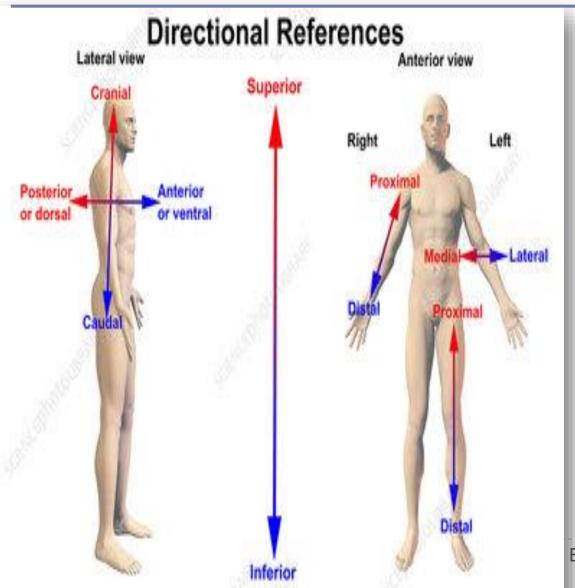


#### Human Anatomy -1st year



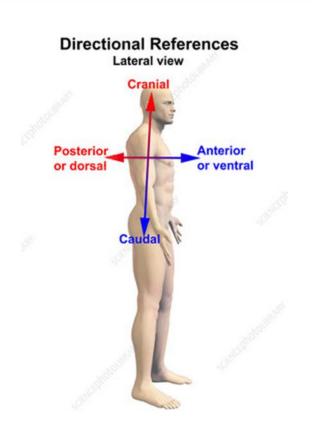


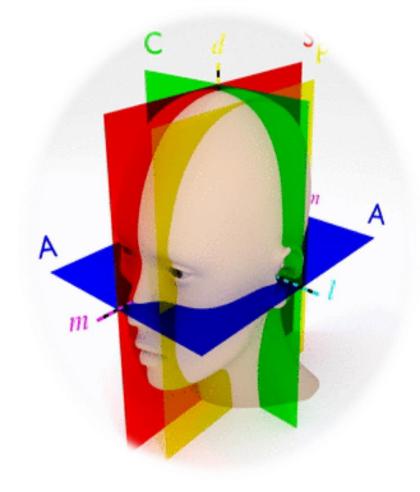
Descriptive anatomical terms of position Lecture (2) By Dr: Hassna Bader Jawad Department of human anatomy College of medicine University of Basrah

Basrah Medical College Department Of Human Anatomy

#### Descriptive Anatomical Terms

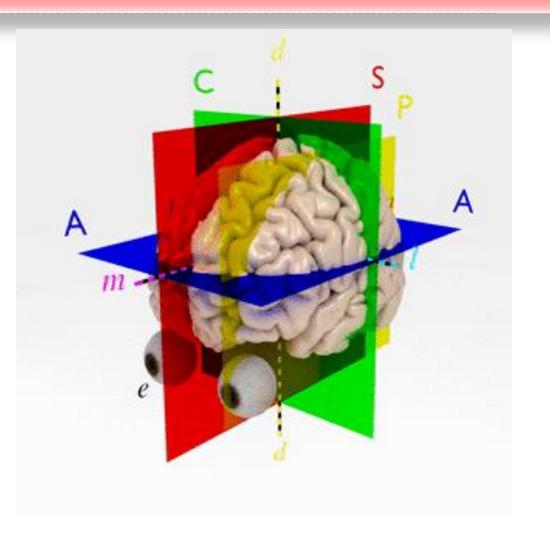
At the end of this lecture you should be able to: **Define Anatomical** planes **Describe the types** of planes **Describe terms of** position (Direction)





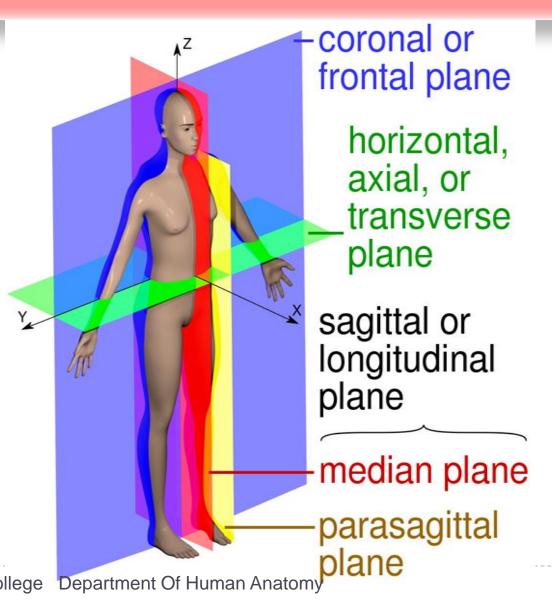
#### **Anatomical Planes**

An imaginary lines that are used to divide the human body vertically or horizontally into sections. They are are used to locate or describe the location of structures in the body. These terms are often used to describe medical imaging such as CT scans, and MRIs where the scans take pictures of the body in flat slices.



#### Median or Midsagittal Planes

This is a vertical plane that divides the body into equal right and left halves. It runs vertically from the head through the belly button and down to the toes. The median plane, therefore, creates equal right and left halves of our body. Sometimes the median plane is referenced as the 'midsagittal Or sagittal
Basrah Medical College



#### Para Sagittal Planes

Any vertical plane \*
that is parallel to
the median plane and divides the body into right and left parts. It is sometimes called paramedian planes, as the prefix 'para' means parallel .



#### Midsagittal Plane

If the sagittal plane runs directly down the midline of the body, it is called a "midsagittal plane" or median plane.

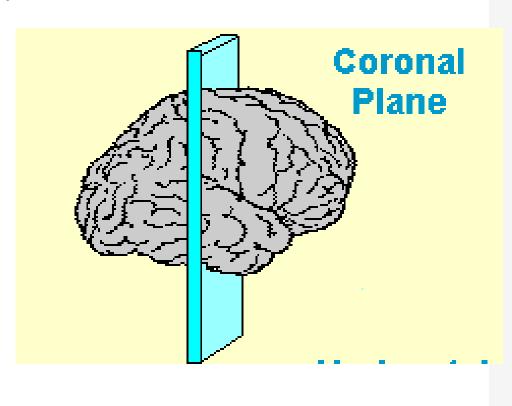
Sagittal planes that are uneven (not down the midline) are called parasagittal planes.

Parasagittal Plane

adite/shuttentock.com

#### Frontal Or Coronal Plane

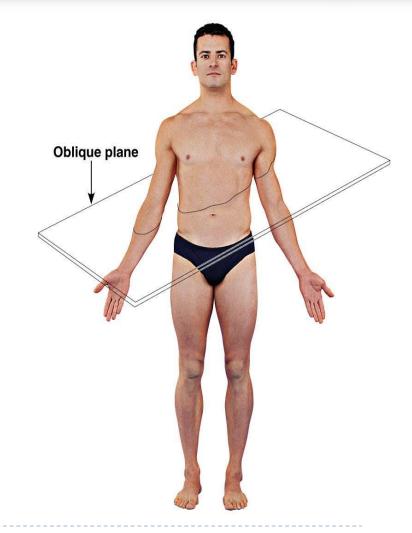
the plane that divides the body or an organ into an anterior (front) portion and a posterior (rear) portion. The frontal plane is often referred to as a coronal plane. ("Corona" is Latin for "crown.")





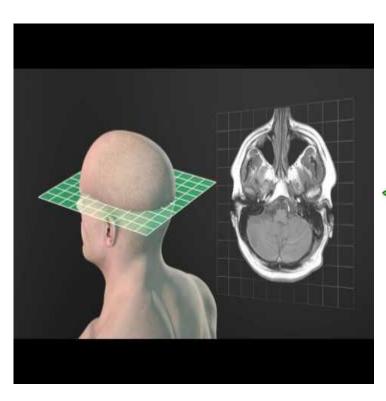
### Oblique Plane

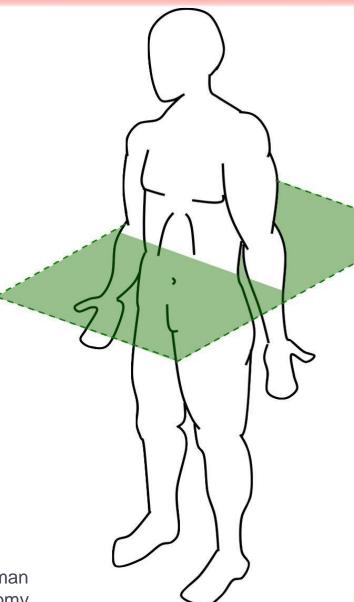
Plane cut neither vertical nor horizontal ,pass through body between transverse and one of vertical planes



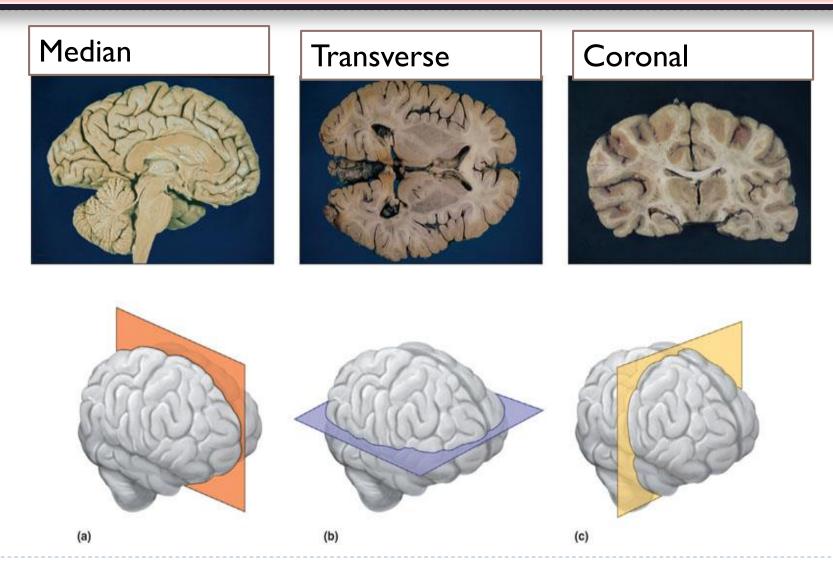
#### Horizontal Plane

The plane that divides the body or organ horizontally into upper and lower portions. Transverse planes produce images referred to as cross sections.









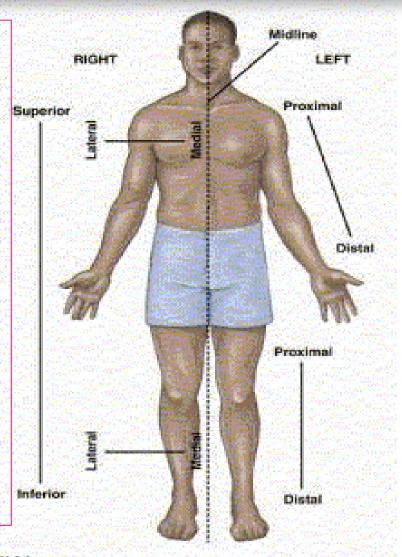
Basrah Medical College Department Of Human Anatomy

### Descriptive Anatomical Terms

Learning anatomy is similar to learning a new language. There are thousands of anatomy terms that students need to master in a very short time. Advancing in anatomy is impossible without understanding the anatomical alphabet first and foremost.

**I.Terms Of Position** 

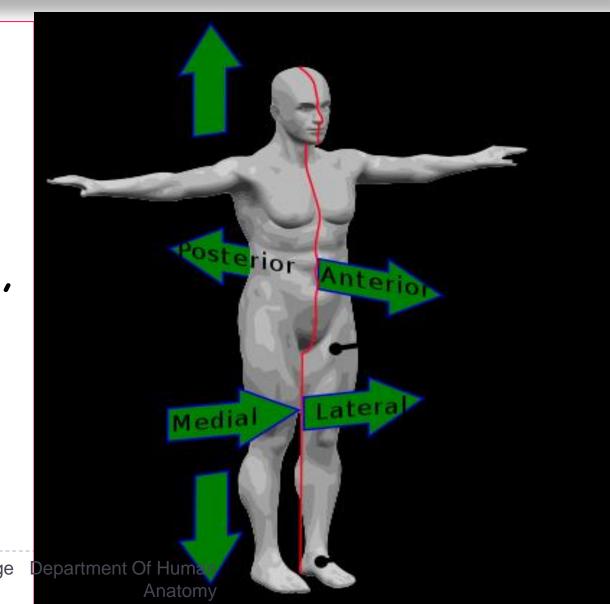
2. Terms Of Movement



#### Terms of Position Or Direction

Anatomical terms used to describe the position and relation between various structures.

Main directional terms: Anterior, posterior, ventral, dorsal, proximal, distal, median, medial, lateral, superior, inferior, cranial, caudal, external, internal, superficial, deep, palmar, dorsal, plantar

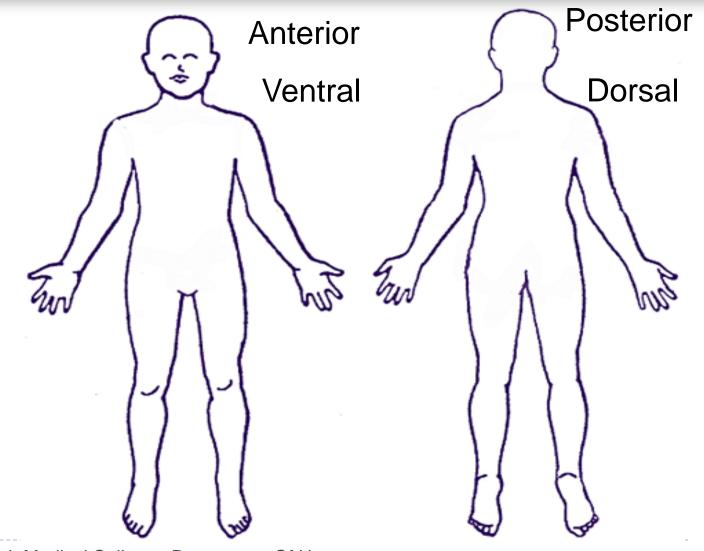




#### Anterior & Posterior

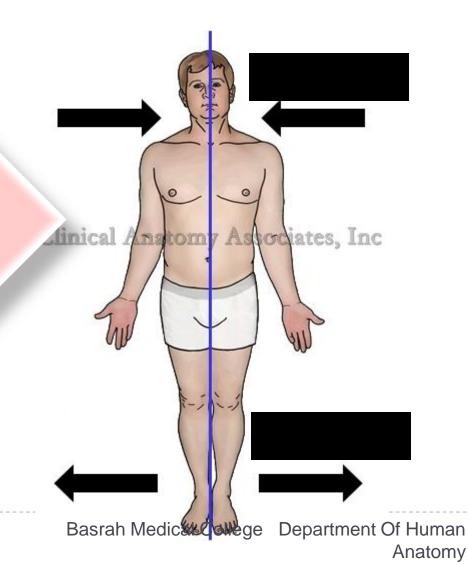
Anterior: or ventral Describes the front or direction toward the front of the body.

Posterior or dorsal Describes the back or direction toward the back of the body.



### Medial & Lateral

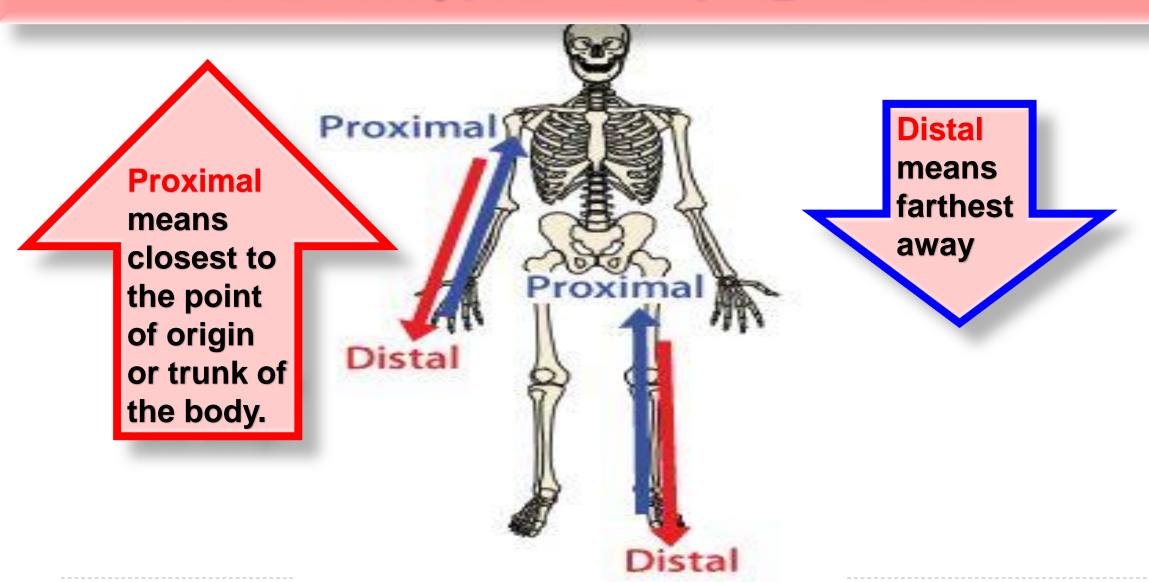
Medial means toward the midline of the body.



Lateral

means away from the midline.

### Proximal & Distal

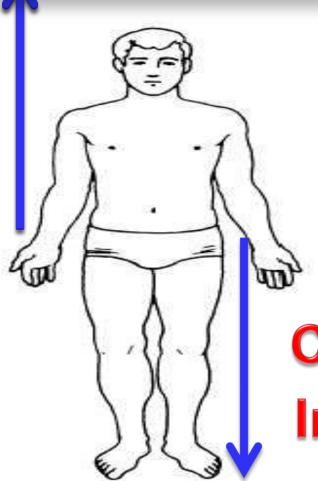


Basrah Medical College Department Of Human Anatomy

### Superior

### & Inferior

# Superior Cranial



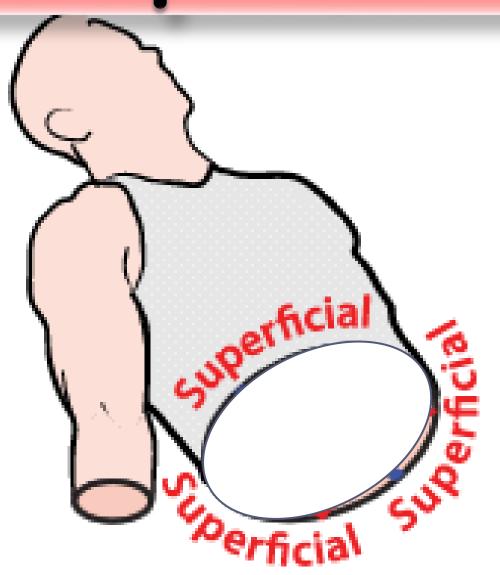
Superior OR Cranial) =above inferior OR Caudal = below. e.g. The elbow is superior (above) to the hand. The foot is inferior (below) to the knee.

Caudal Inferior

154.75

### Superficial

# & Deep



Superficial (External) means toward the **body** surface

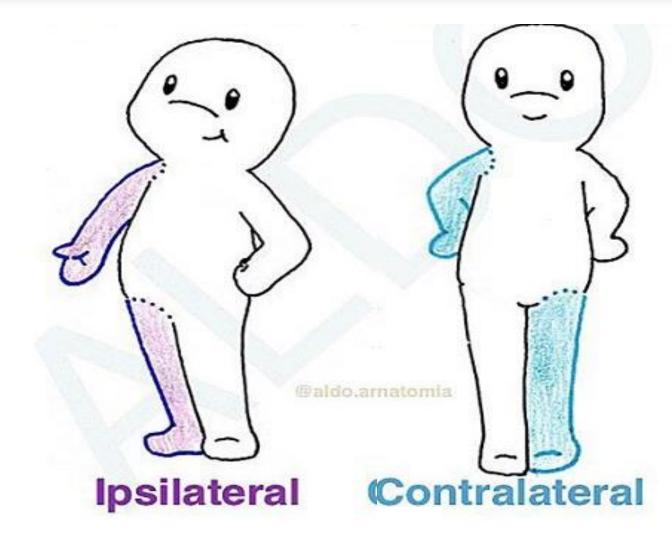
Deep (Internal) means farthest from the body surface.

#### Ipsilateral &

#### Contralateral

Ipsilateral means on the same side—the right arm is ipsilateral (on the same side) to the right leg.

Contralateral means on opposite side—the right arm is contralateral to the left leg.



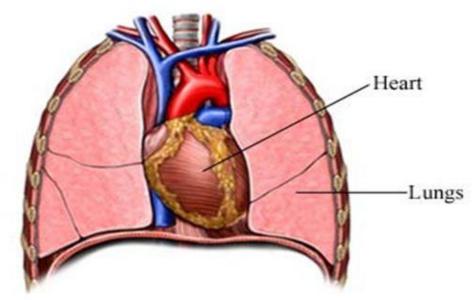


#### Intermediate

Intermediate: Being between or in the middle of two structures

Ex: The heart is intermediate

to the lungs

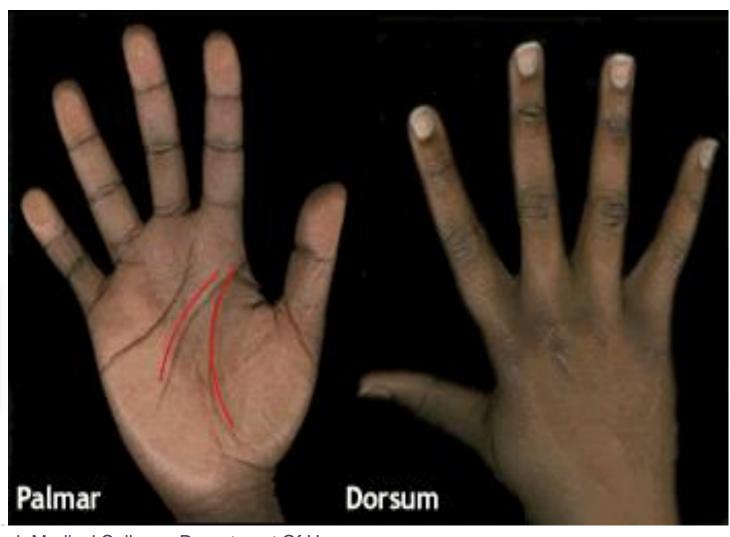


Basrah Medical College Department Of Human Anatomy

#### Palmar and dorsal

The front, or palm-side, of the hand is referred to as the palmar side

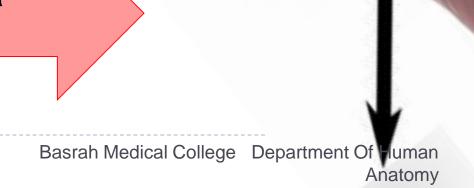
The back of the hand is called the dorsal side (Dorsum ).



### Plantar And Dorsal

The dorsum of foot is the area facing upwards while standing.

The plantar of foot is the area facing down while standing.



## Supine And Prone

Supine: body is lying on back



Prone: face lying downward.



