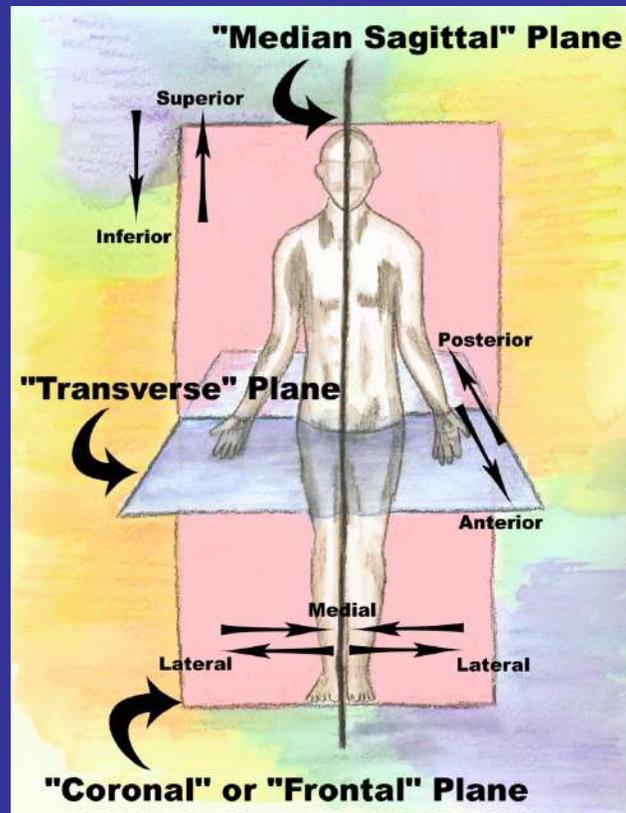


# Unit 6:2 – Body Planes, Directions and Cavities



# Anatomic Position



Body upright with face front, arms at the sides with palms forward, and feet parallel

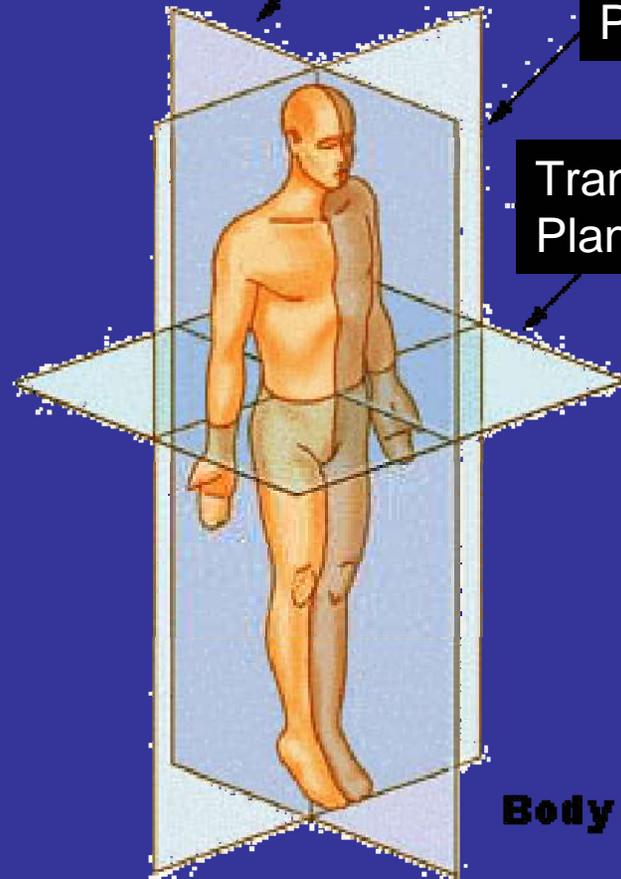
# Body Planes

Imaginary lines drawn through the body to separate the body into sections

Midsagittal or Median Plane

Frontal or Coronal Plane

Transverse Plane



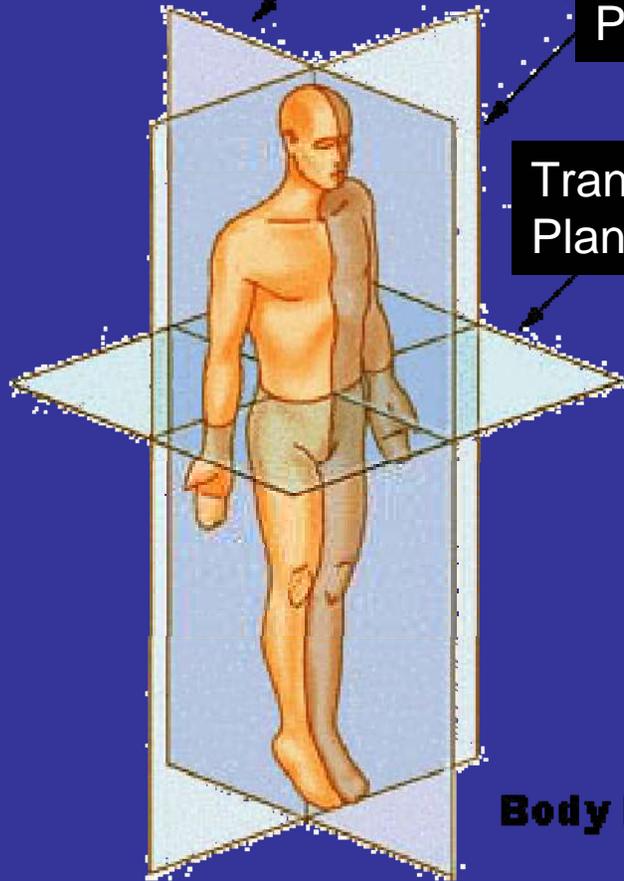
**Body Planes**

# Body Planes

Midsagittal or Median Plane

Frontal or Coronal Plane

Transverse Plane



Midsagittal divides the body into right and left sides

Frontal divides the body into front and back sections

Transverse divides the body into top and bottom half

**Body Planes**

# Directions

Superior – above or higher

Inferior – below or lower

Ventral (Anterior) – toward belly or front

Dorsal (Posterior) – nearer to the back

Cranial – near the head

Caudal – near sacrum or tail

Medial – toward the midline of the body, dividing it into left and right portions

Lateral (Opposite) – toward the side, farther from the midline

Proximal – nearer the origin of the structure

Distal – farther from the origin of the structure



# Transverse Plane

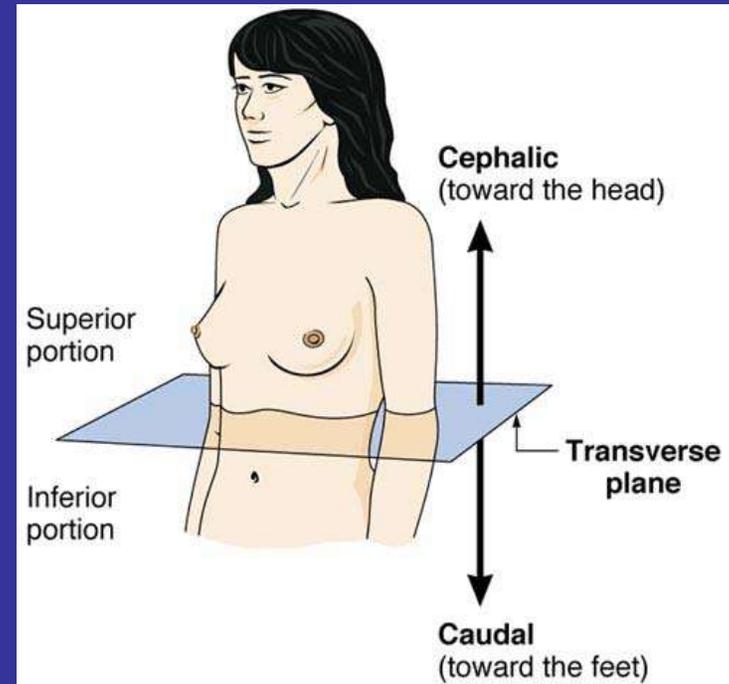
- Directional Terms

- Superior vs. Inferior

- Superior- body parts above other body parts
      - Ex: your shoulder is superior to your hip

Inferior – body parts below other body parts

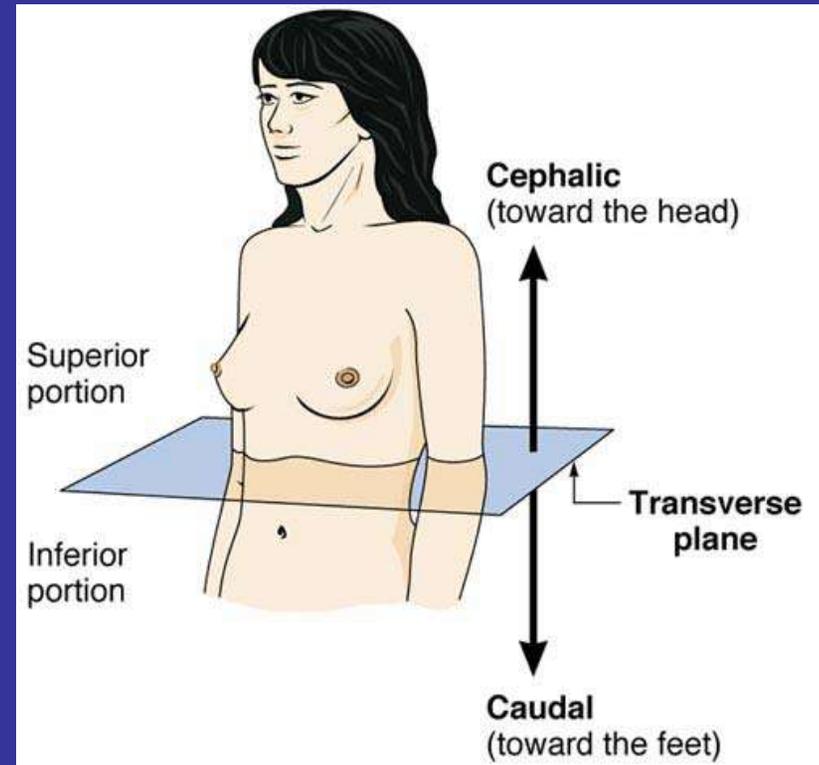
- Ex: your shoulder is inferior to your head



# Transverse Plane

- More Directional Terms
  - Cranial vs. Caudal

- Cranial/Cephalic – near the head
- Caudal – near the feet



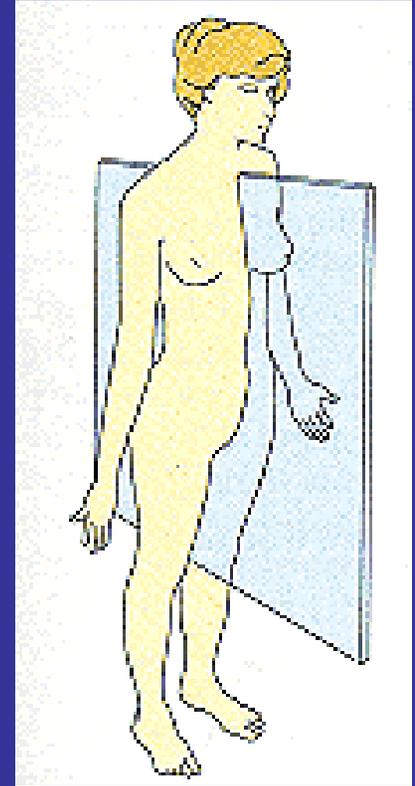
# Midsagittal Plane

- Directional Terms

- Medial vs. Lateral

- Medial – body parts close to the midline

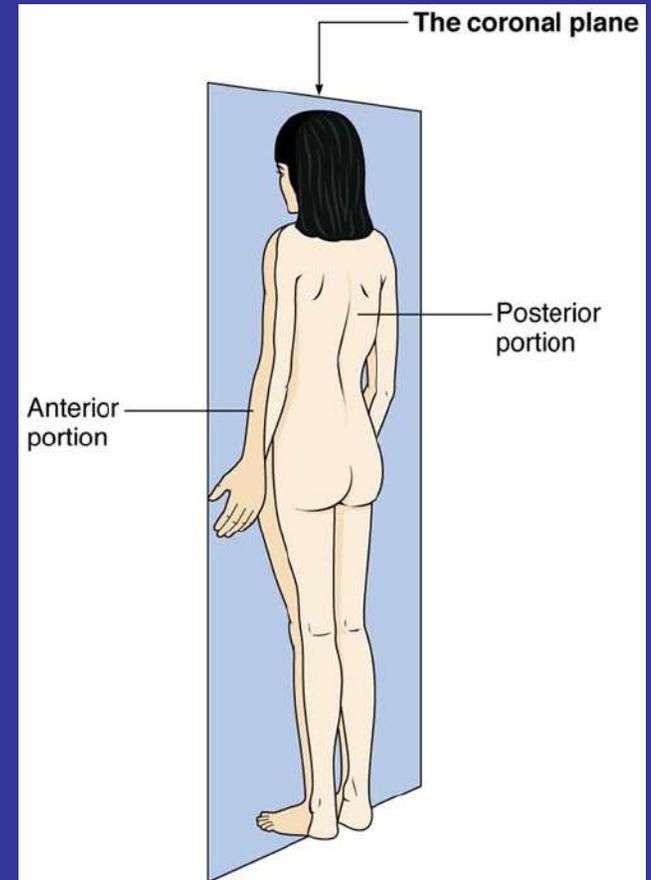
- Lateral – body parts away from the midline



# Frontal Plane

- Directional Terms
  - Ventral vs. Dorsal

- Ventral – body parts on the front of the body
- Dorsal – body parts on the back of the body



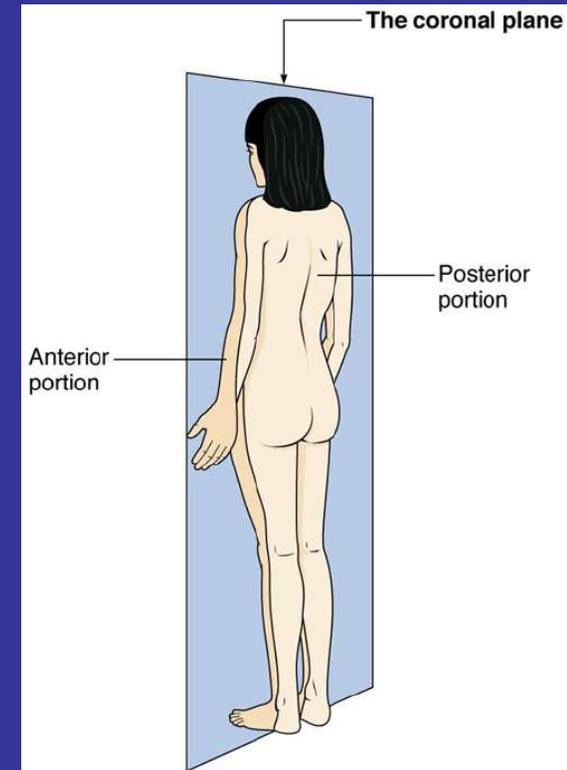
# Frontal Plane

- Directional Terms

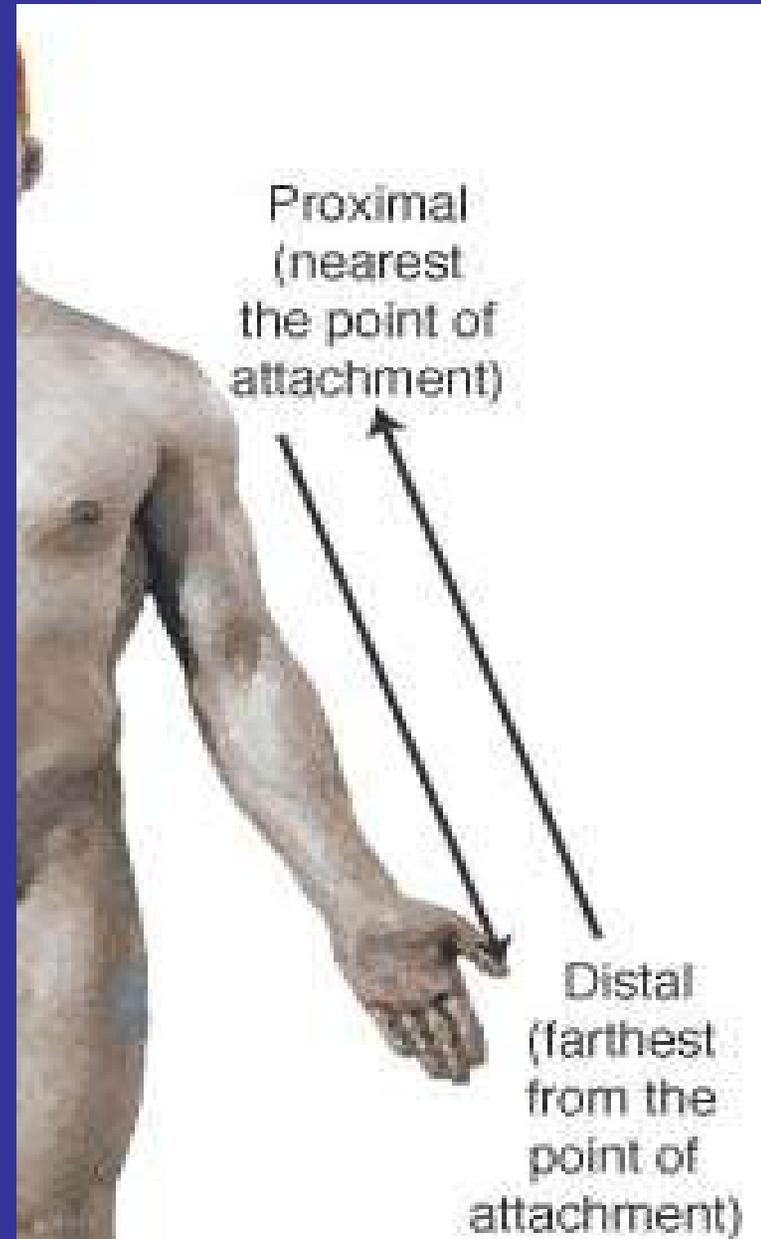
- Anterior vs. Posterior

- Anterior – body parts on the front of the body
    - Posterior – body parts on the back of the body

\*\*similar to ventral and dorsal\*\*

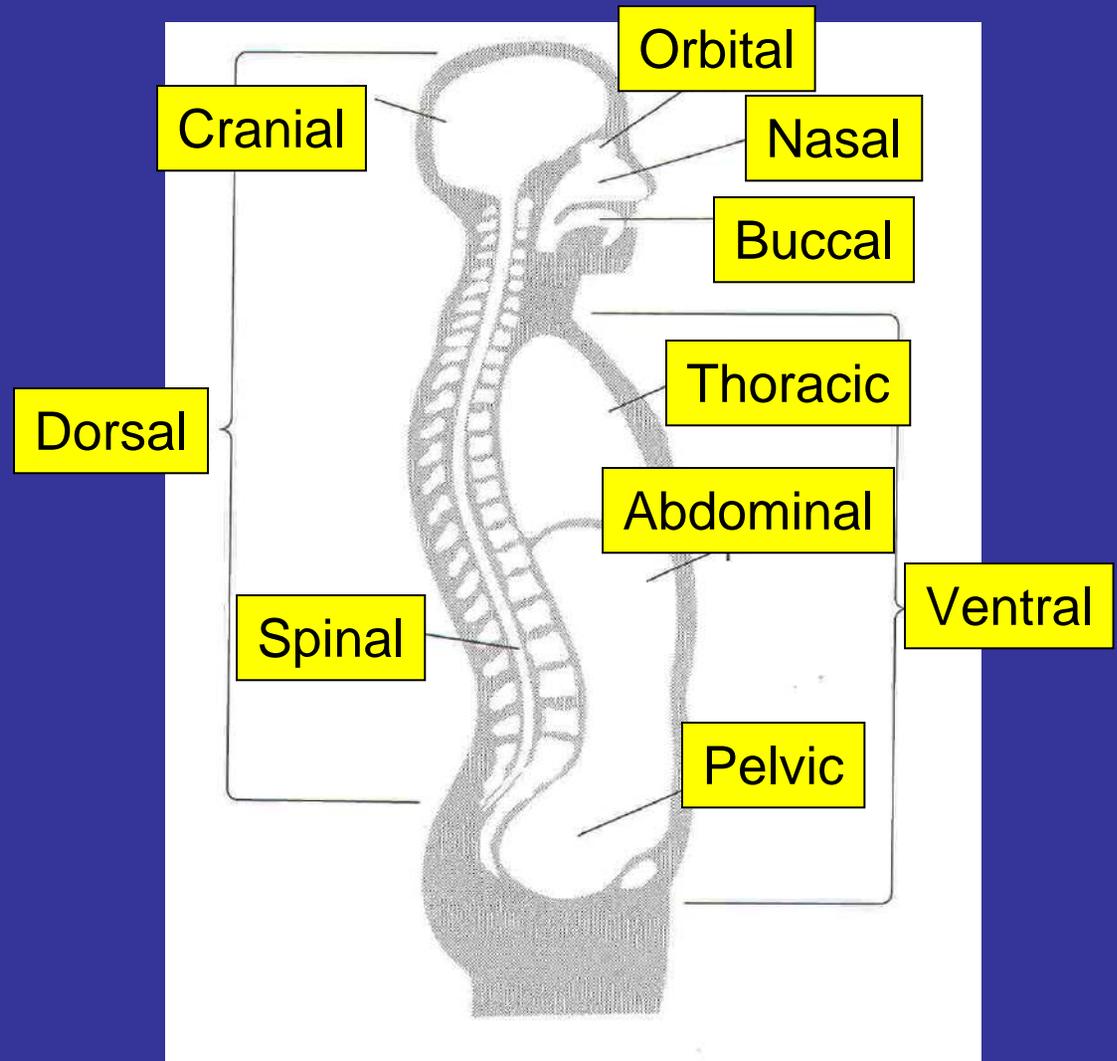


# Proximal and Distal



# Body Cavities

Spaces within the body that contain vital organs



# Body Cavities

## DORSAL CAVITY



*Cranial Cavity* – contains the brain

*Spinal Cavity* – encloses spinal cord



# Body Cavities

## VENTRAL CAVITY

*Thoracic Cavity* – contains the esophagus, trachea, bronchi, heart, lungs, and large blood vessels

### *Abdomino-pelvic Cavity* –

*Abdominal* – contains the stomach, small intestine, most of the large intestine, appendix, liver, gallbladder, pancreas, and spleen

*Pelvic* – contains the urinary bladder, reproductive organs, and the last part of the large intestines

# Body Cavities

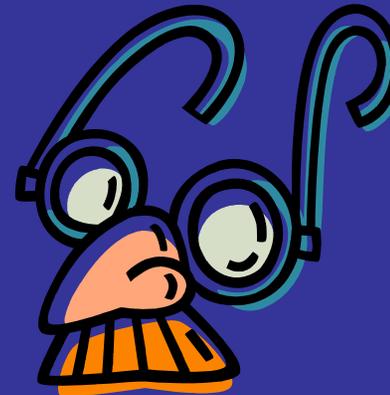
## ORBITAL CAVITY

*Contains the eyes*



## NASAL CAVITY

*Contains the nose structures*

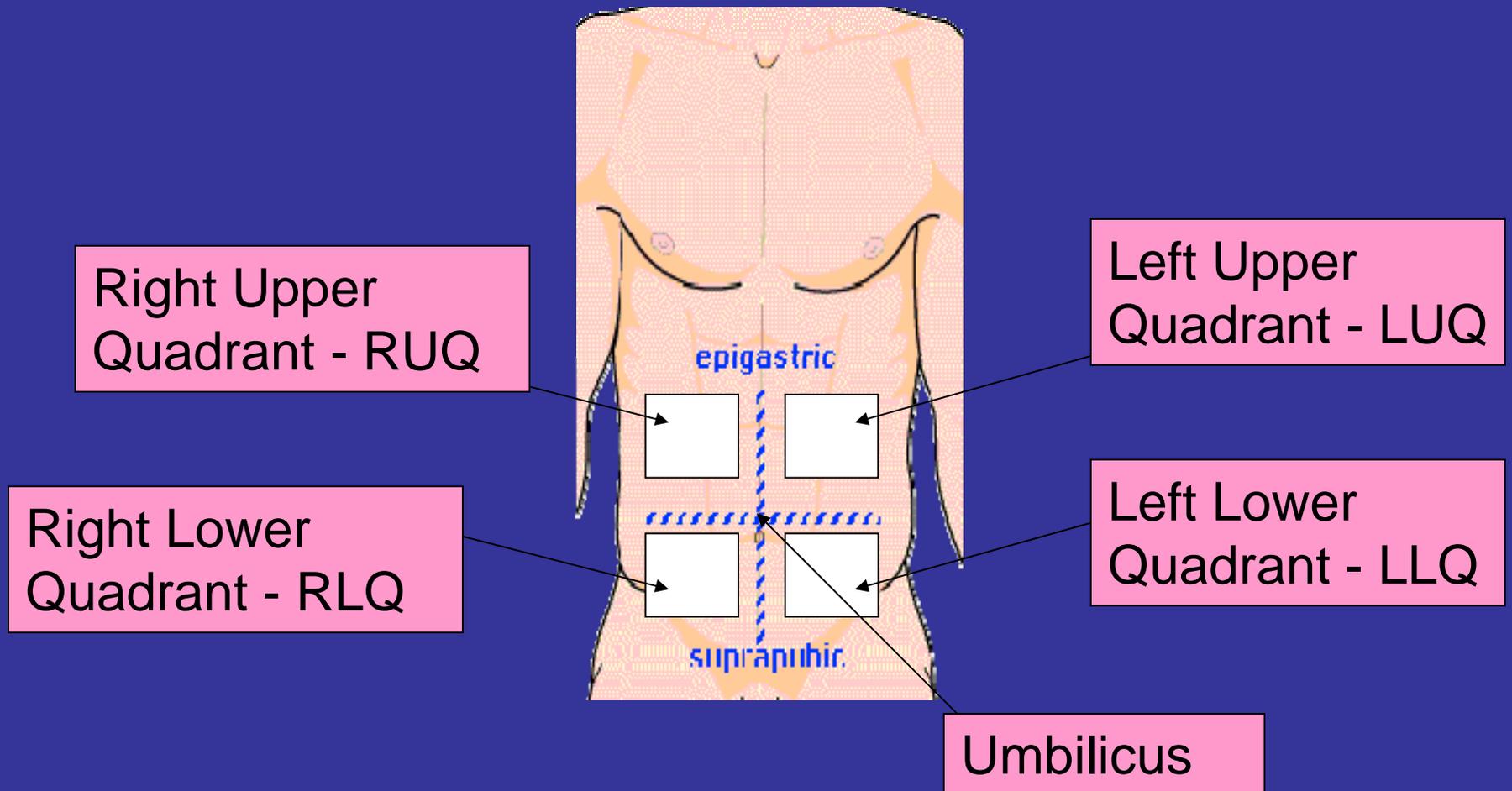


## BUCCAL CAVITY

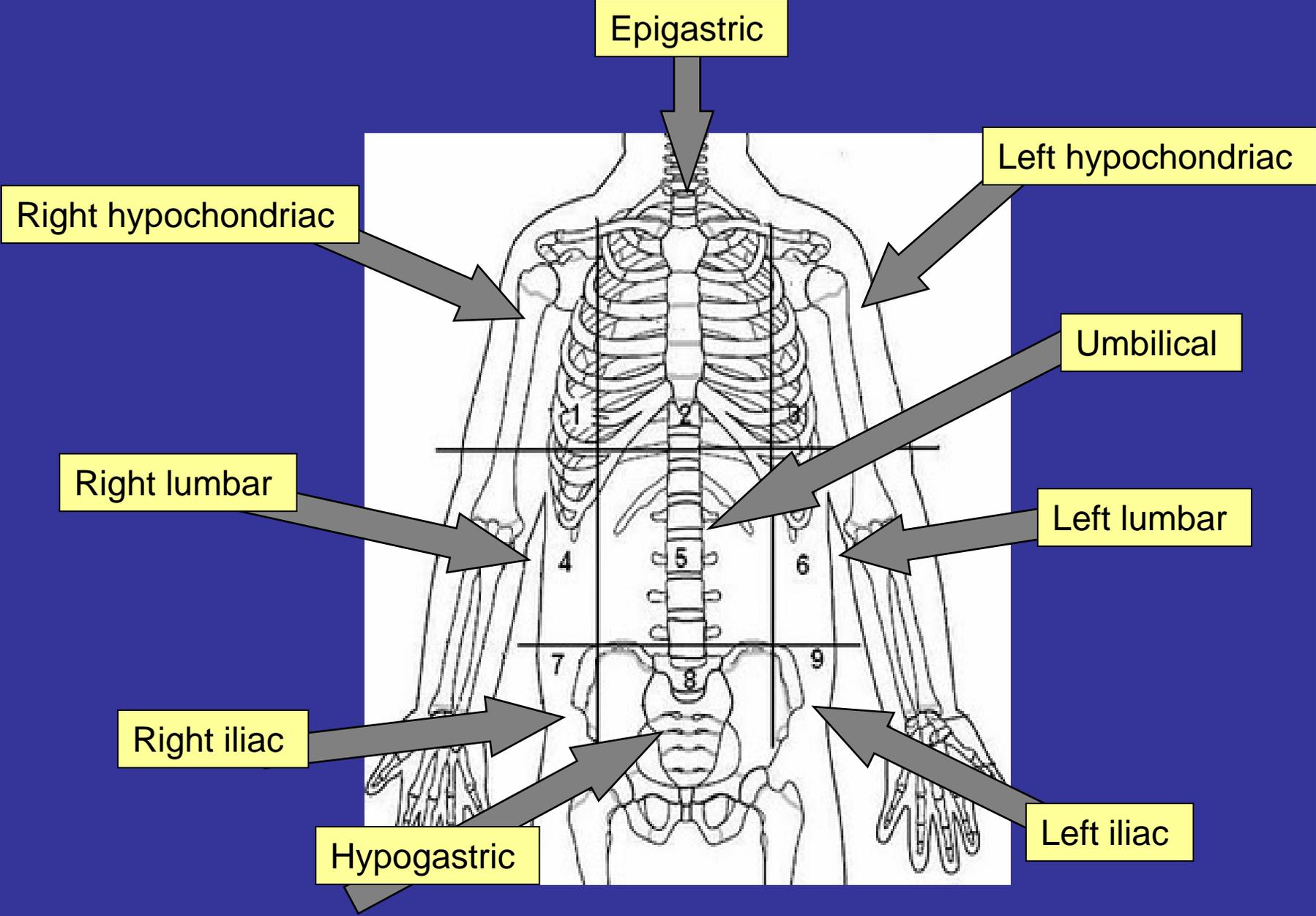
*Contains teeth and tongue*



# Abdominal Quadrants



# Abdominal Regions



# Sources

<http://www.geocities.com/manuseio/AnatomicPosition.jpg>

Abdominal Quadrants [medinfo.ufl.edu/.../slides/abdomen/abdomen.html](http://medinfo.ufl.edu/.../slides/abdomen/abdomen.html)

Abdominal

Regions [http://3.bp.blogspot.com/\\_j4UPku\\_f2F4/SYhSUIx6mXI/AAAAAAAAAEc/GM2ghyLhfvc/s320/Abdominal+Regions.JPG](http://3.bp.blogspot.com/_j4UPku_f2F4/SYhSUIx6mXI/AAAAAAAAAEc/GM2ghyLhfvc/s320/Abdominal+Regions.JPG)

<http://www.augustatech.edu/anatomy/ch1mdsag.gif>

Body planes and directions [www.norcalneuro.com/.../anatomic\\_terms.htm](http://www.norcalneuro.com/.../anatomic_terms.htm)