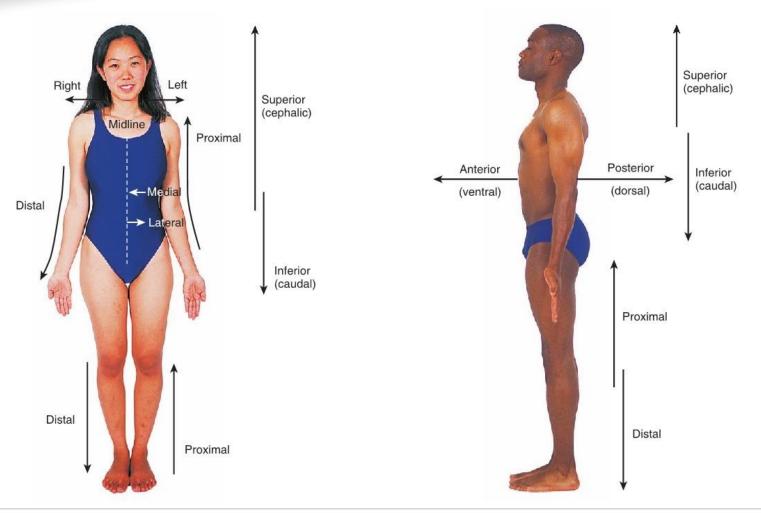


#### Revision (Body Positions)

- A human standing erect with the face directed forward, the arms hanging to the sides, and the palms facing forward is in the anatomical position.
- A person lying face upward is supine; a person lying face downward is prone.
- Directional terms always refer to the anatomical position, no matter what the actual position of the body.

#### FUNDAMENTAL Figure



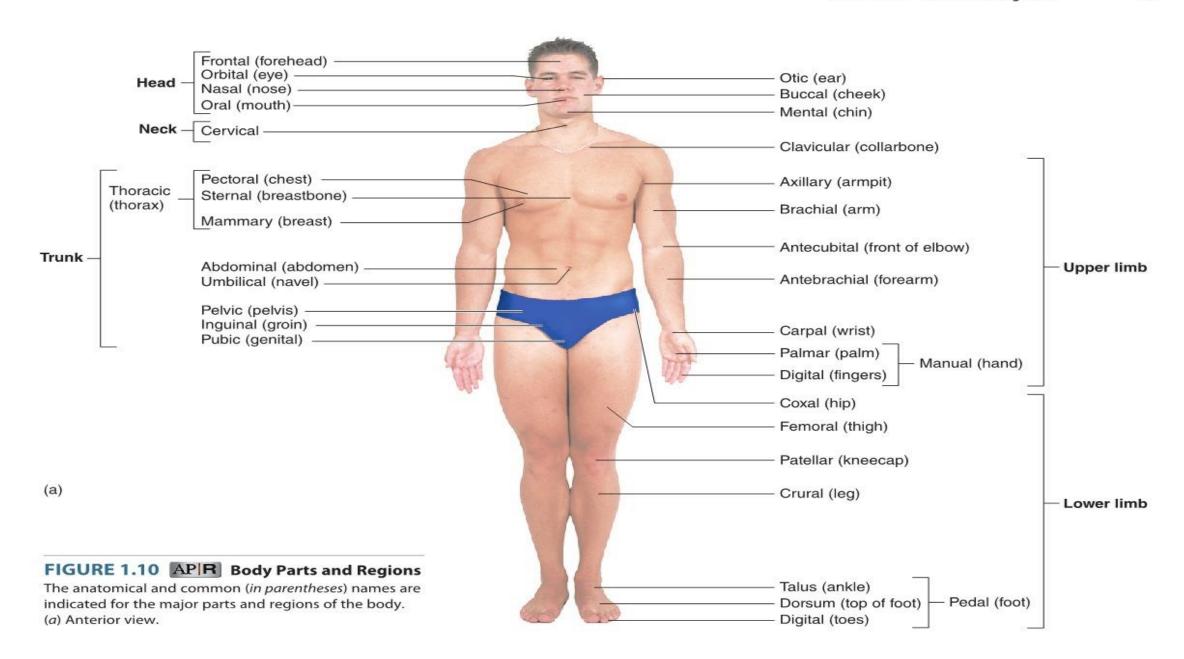
#### FIGURE 1.9 AP R Directional Terms

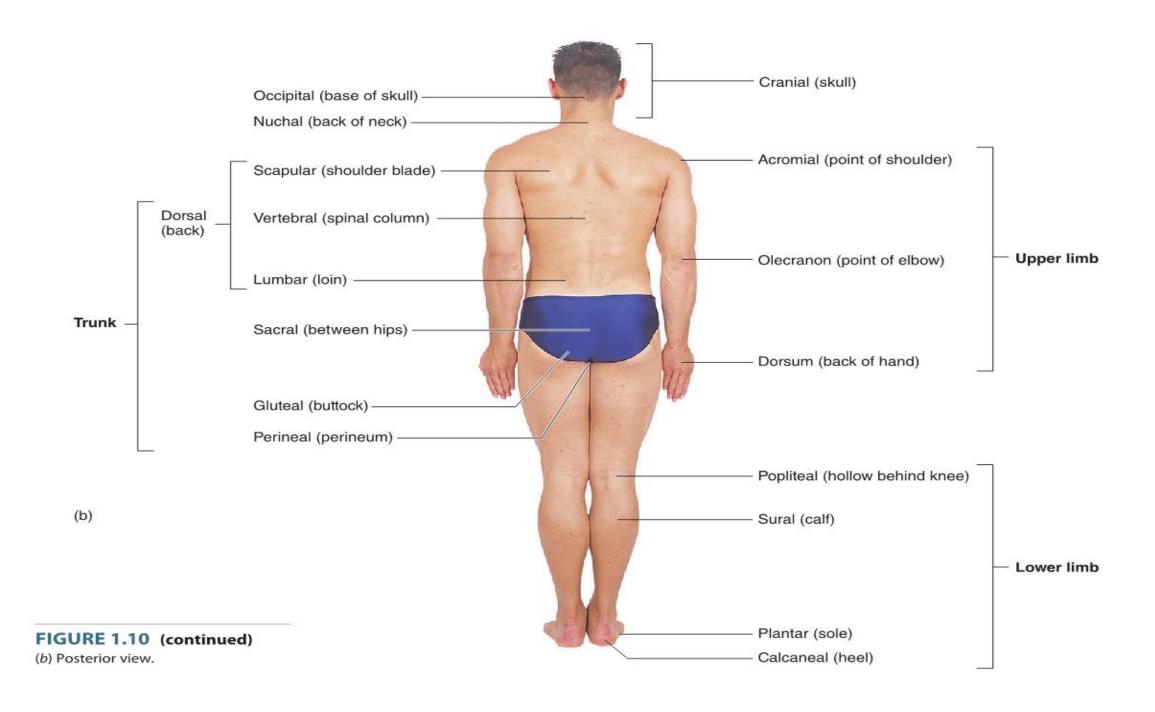
All directional terms are in relation to the body in the anatomical position: a person standing erect with the face directed forward, the arms hanging to the sides, and the palms of the hands facing forward.

## Directional terms

TABLE 1.2	Directional Terms for Humans		
Terms	Etymology*	Definition	Examples
Right Left		Toward the right side of the body Toward the left side of the body	Right ear Left eye
Superior Inferior	L. higher L. lower	A structure above another A structure below another	The chin is superior to the navel.  The navel is inferior to the chin.
Cephalic	G. kephale, head	Closer to the head than another structure (usually synonymous with superior)	The chin is cephalic to the navel.
Caudal	L. cauda, a tail	Closer to the tail than another structure (usually synonymous with <i>inferior</i> )	The navel is caudal to the chin.
Anterior Posterior	L. before L. <i>posterus,</i> following	The front of the body The back of the body	The navel is anterior to the spine.  The spine is posterior to the breastbor
Ventral Dorsal	L. ventr-, belly L. dorsum, back	Toward the belly (synonymous with <i>anterior</i> ) Toward the back (synonymous with <i>posterior</i> )	The navel is ventral to the spine.  The spine is dorsal to the breastbone.
Proximal	L. proximus, nearest	Closer to the point of attachment to the body than another structure	The elbow is proximal to the wrist.
Distal	L. di- plus sto, to stand apart or be distant	Farther from the point of attachment to the body than another structure	The wrist is distal to the elbow.
Lateral	L. latus, side	Away from the midline of the body	The nipple is lateral to the breastbone
Medial	L. medialis, middle	Toward the midline of the body	The nose is medial to the eye.
Superficial	L. superficialis, toward the surface	Toward or on the surface (not shown in figure 1.10)	The skin is superficial to muscle.
Deep	O.E. deop, deep	Away from the surface, internal (not shown in figure 1.10)	The lungs are deep to the ribs.

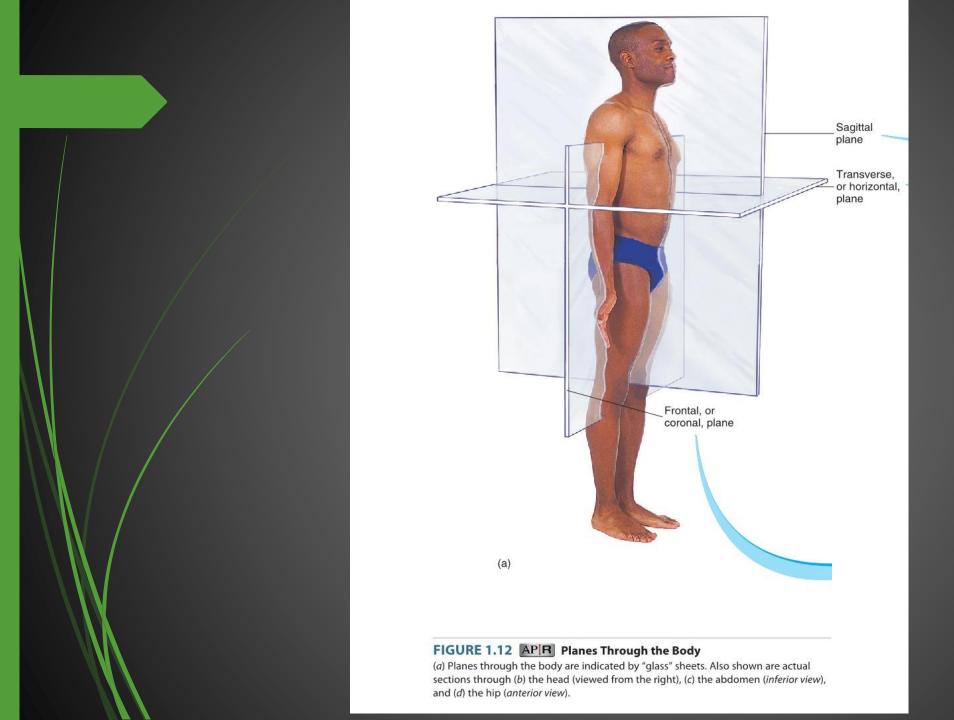
<sup>\*</sup>Origin and meaning of the word: L., Latin; G., Greek; O.E., Old English.





### Revision (Planes of the body)

- A sagittal plane also known as median plane divides the body into right and left parts (equal right and left halves).
- A transverse (horizontal) plane divides the body into superior and inferior portions.
- A frontal (coronal) plane divides the body into anterior and poste-rior parts.

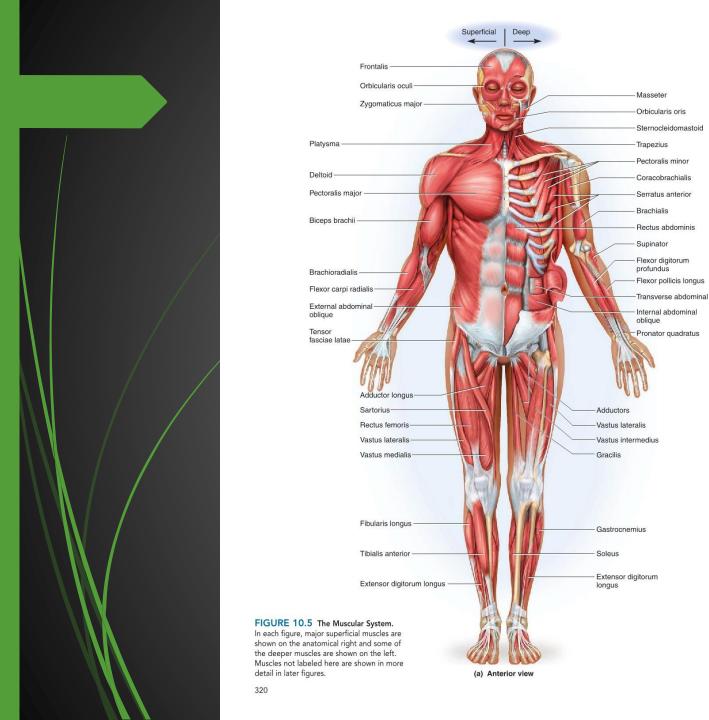


#### Introduction

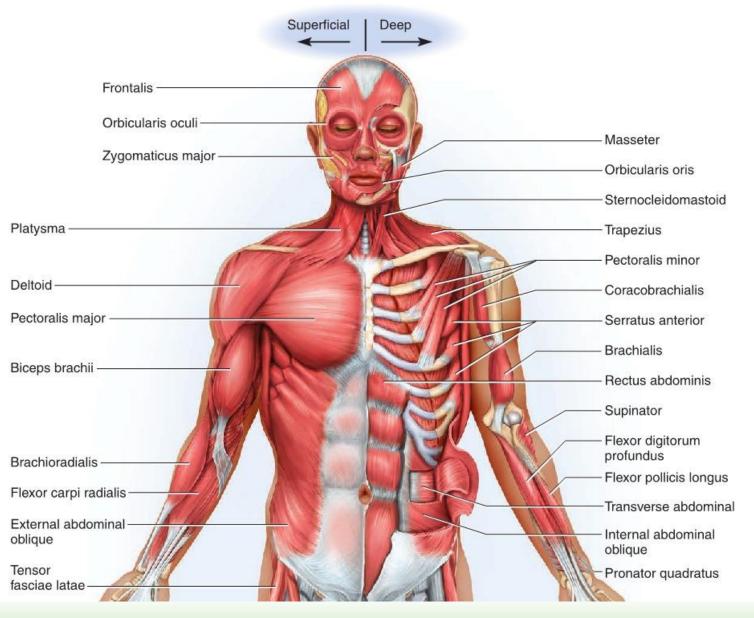
- Muscles constitute nearly half of the body's weight and occupy a place of central interest in several fields of health care and fitness.
- Muscular system is closely related to skeletal and nervous system in the connecting link of human movement.

#### Making sense of muscle names

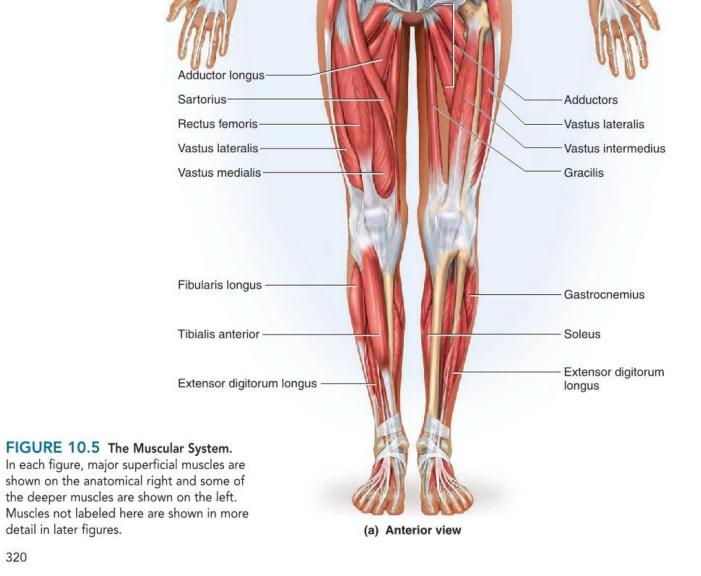
- Muscle names typically describe some distinctive aspects of the structure, location, or action of a muscle, and become very helpful once we grow familiar with a few common Latin words.
- For example, the depressor labii inferioris is a muscle that lowers (depresses) the bottom (inferior) lip (labium), and the flexor digiti minimi brevis is a short (brevis) muscle that flexes the smallest (minimi) finger (digit)



# Frontal plane anterior label of the human body



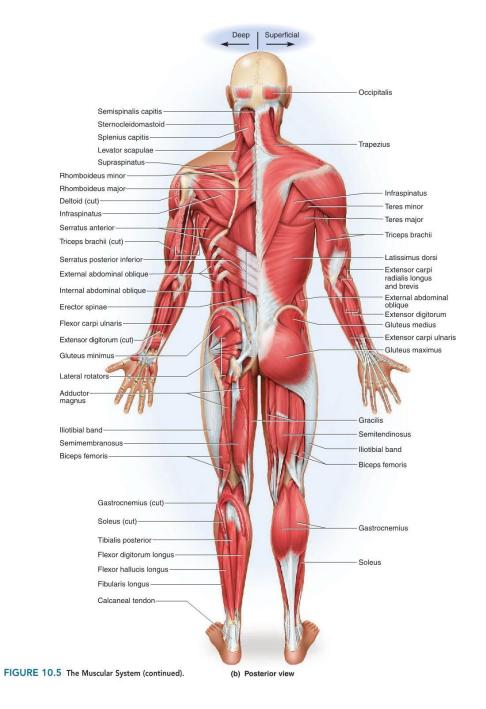
Note the muscle(s) each of the arrows touches



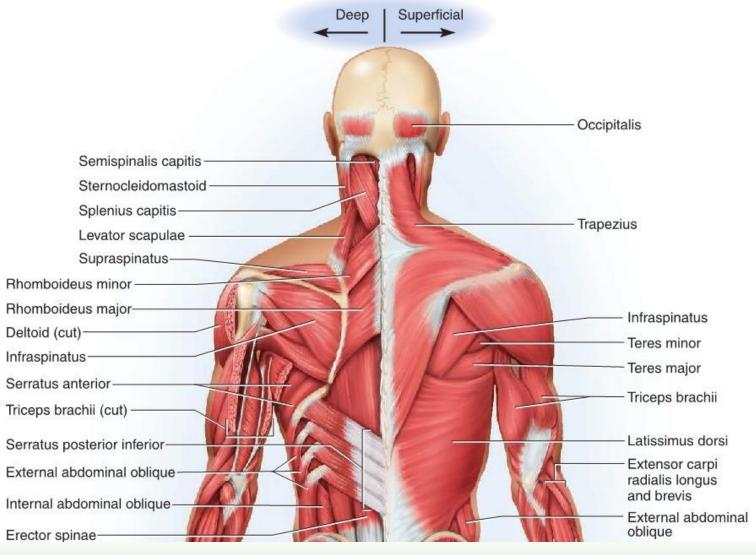
320

### Note the muscle(s) each of the arrows touches

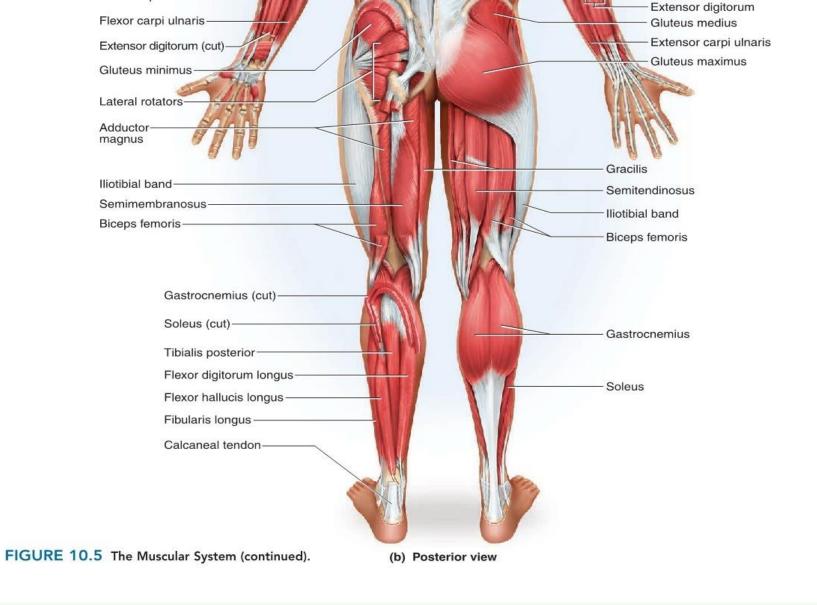




# Frontal plane posterior label of the human body



Note the muscle(s) each of the arrows touches



321

## Note the muscle(s) each of the arrows touches

