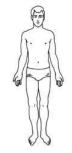
## ANATOMICAL TERMINOLOGY: Directional Terms

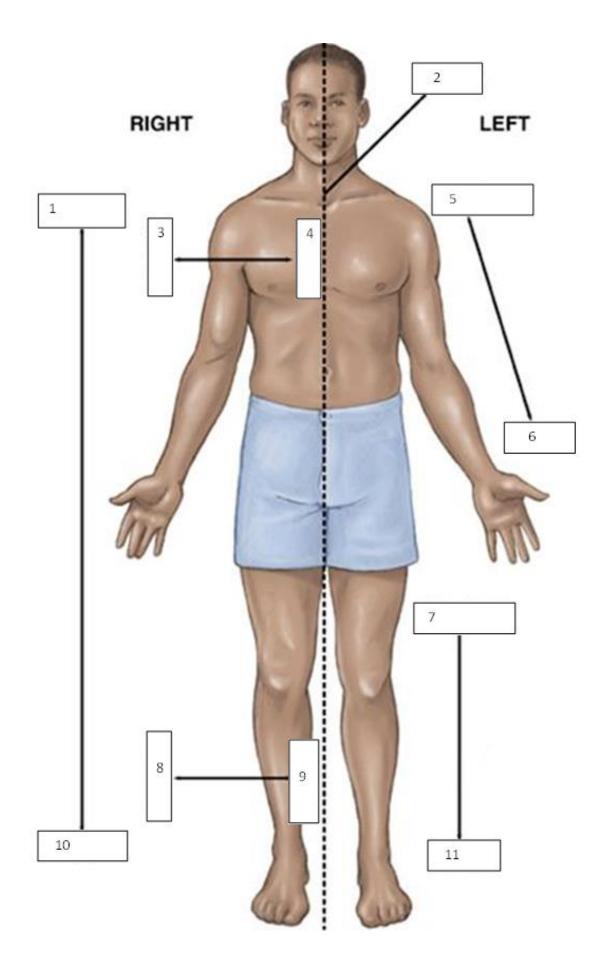
There is universal agreement in the field of anatomy that the relative description of the human body is always in a specific position called \_\_\_\_\_\_\_. In this position, the individual is standing upright, face forward, with the upper limbs positioned at the sides, the palms turned forward, and the feet flat on the floor.



**FIGURE A** 

**Directional terms** are used by anatomists to locate numerous body structures in relationship to one another. Label the following directional terms on Figure B, based on their description below. Then, using the same directional terms, fill in the blanks to describe the body parts relationship to one another.

1. Superior:						
	Example: The head is	to the shoulders.				
2.	.Inferior:					
	Example: The intestines are	to the lungs				
3.	.Anterior (also known as ventral):					
	Example: The trachea is	to the esophagus.				
4.	Posterior (also known as dorsal):					
	Example: The esophagus is	to the trachea.				
5.	Medial:					
	<i>Example:</i> The ulna is	to the radius.				
6.	Lateral:					
	Example: The lungs are	to the heart.				
7.	Intermediate:					
	Example: The index finger is	to the thumb and middle finger.				
8.	Proximal:					
	Example: The knee is	to the shin.				
9.	Distal:					
	Example: The elbow is	the shoulder.				
10	. Superficial:					
	Example: The skin is	to the muscles.				
11	. Deep:					
	<i>Example:</i> The ribs are	to the skin.				



- 1. The heart is \_\_\_\_\_\_ to the lungs.
- 2. The thumb is \_\_\_\_\_\_ to the wrist.
- 3. The kneecap is \_\_\_\_\_\_to the ankle.
- 4. The nose lies on the \_\_\_\_\_\_ surface of the body.
- 5. The eyes are located \_\_\_\_\_\_ to the nose.
- 6. The ears are situated \_\_\_\_\_\_ to the head.
- 7. The upper arm muscle is \_\_\_\_\_\_ to the skin.
- 8. The ring finger is located \_\_\_\_\_\_relative to the thumb.
- 9. The spine is located \_\_\_\_\_\_.
- 10. The esophagus is located \_\_\_\_\_\_to the trachea.
- 11. The large intestine is \_\_\_\_\_\_to the stomach.
- 12. The hamstrings are located \_\_\_\_\_\_\_to the quadriceps.

   13. The brain is \_\_\_\_\_\_to the heart.
- 14. The index finger is \_\_\_\_\_\_\_to the thumb and middle finger.
- 15. The liver is \_\_\_\_\_\_to the diaphragm
- 16. Fingers are located \_\_\_\_\_\_ to the wrist bones.
- 17. The skin on the dorsal surface of your body is said to be located on your surface.
- 18. The great(big) toe is \_\_\_\_\_\_ to the little toe.
- 19. The skin on your leg is \_\_\_\_\_\_ to the muscle tissue in your leg.
- 20. When you float face down in a pool, you are lying on your \_\_\_\_\_\_ surface.
- 21. The lungs and the heart are located \_\_\_\_\_\_\_ to the abdominal organs.

In Anatomy specific terms are used to explain the location of body organs, systems, as well as body movements.

1. Fill in the missing words to make the passage correct using words from the word bank provided.

reference, side, stand, body, arms, hands, anatomical, forward

All anatomical terms have a	point which is called the
position. This is a	position where you
up, head straigh	andby your
, with the palm o	yourfacing

Complete these sentences using the terms superior and inferior.

- 2. The hands are \_\_\_\_\_\_to the feet
- 3. The knees are \_\_\_\_\_\_ to the waist.
- 4. The elbow is \_\_\_\_\_\_ to the wrist.
- 5. The calf muscle is \_\_\_\_\_\_to the ankle.

Complete these sentences using the terms anterior and posterior.

- 6. The heel is \_\_\_\_\_\_ to the toes.
- 7. The biceps are \_\_\_\_\_\_to the triceps.
- 8. The hamstring is to the quadriceps.

Complete these sentences using the terms lateral and medial.

 9. The arms are \_\_\_\_\_\_to the midline.

 10. The neck is \_\_\_\_\_\_to the arms.

11. The shoulders are \_\_\_\_\_\_to the midline.

## Anatomical Terms – Word Match

Match the correct terms with their meanings. Place the correct letter in the empty column

 Superior	a. closer to the top of the limb
 Inferior	b. lying face downwards
 Anterior	c. towards the head, or above
 Posterior	d. back or at the back of
 Lateral	e. closer toward the bottom or end of a limb
 Medial	f. towards the feet, or below
 Proximal	g. front, or in front of
 Distal	h. lying face upwards
 Supine	i. toward the side of the body, or away from the midline
	of the body
 Prone	j. toward the midline of the body

Circle the answer which will make the sentence correct.

- 13. The big toe is on the lateral/medial side of the body?
- 14. The shoulder blade is on the anterior/posterior side of the body?
- 15. The hand is distal/proximal to the elbow?
- 16. The hips are superior/inferior to the shoulders?
- 17. The shoulders are medial/lateral to the spine?
- 18. The knee is distal/proximal to the ankle?
- 19. What is the importance of having the anatomical position?

## **Multiple Choice**

- 1. Which of the following sets of directional terms are most appropriately referred to as opposite?
  - a. Distal and proximal

c. Superior and ventral

b. Medial and inferior

- d. Anterior and deep
- 2. The anatomical term that means "away from the midline of the body" is

a. medial	b. Proximal	c. Distal	d. lateral
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 3. The ankle is \_\_\_\_\_\_ to the knee.

 a. deep
 b. Peripheral
 c. Superior
 d. distal

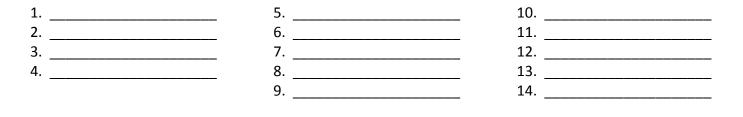
4. The concept of anatomical position stipulates all of the following EXCEPT the

- a. forearms are supine
- c. arms are held down to the sidesd. mouth is closed
- b. feet are slightly apart c

Several incomplete statements are listed below. Correctly complete each statement by choosing the appropriate anatomical term from the key. Record the key letters and/or terms on the correspondingly numbered blanks below. Some terms are used more than once.

a.	anterior	d.	inferior	g.	posterior	j.	superior
b.	distal	e.	lateral	h.	proximal	k.	transverse
с.	frontal	f.	medial	Ι.	sagittal		

In the anatomical position, the face and palms are on the \_1\_ body surface; the buttocks and shoulder blades are on the \_2\_ body surface; and the top of the head is the most \_3\_ part of the body. The ears are \_4\_and \_5\_ to the shoulders and \_6\_ to the nose. The heart is \_7\_ to the vertebral column (spine) and \_8\_ to the lungs. The elbow is \_9\_ to the fingers but \_10\_ to the shoulder. The abdominopelvic cavity is \_11\_ to the thoracic cavity and\_12\_ to the spinal cavity. In humans, the dorsal surface can also be called the \_13\_ surface; however, in quadruped animals, the dorsal surface is the \_14\_surface.



Fill in the blank completing the analogy.

- A. anterior is to ventral as posterior is to \_\_\_\_\_
- B. superficial is to external as deep is to \_\_\_\_\_
- C. cranial is to caudal as superior is to \_\_\_\_\_
- D. medial is to lateral as proximal is to \_\_\_\_\_