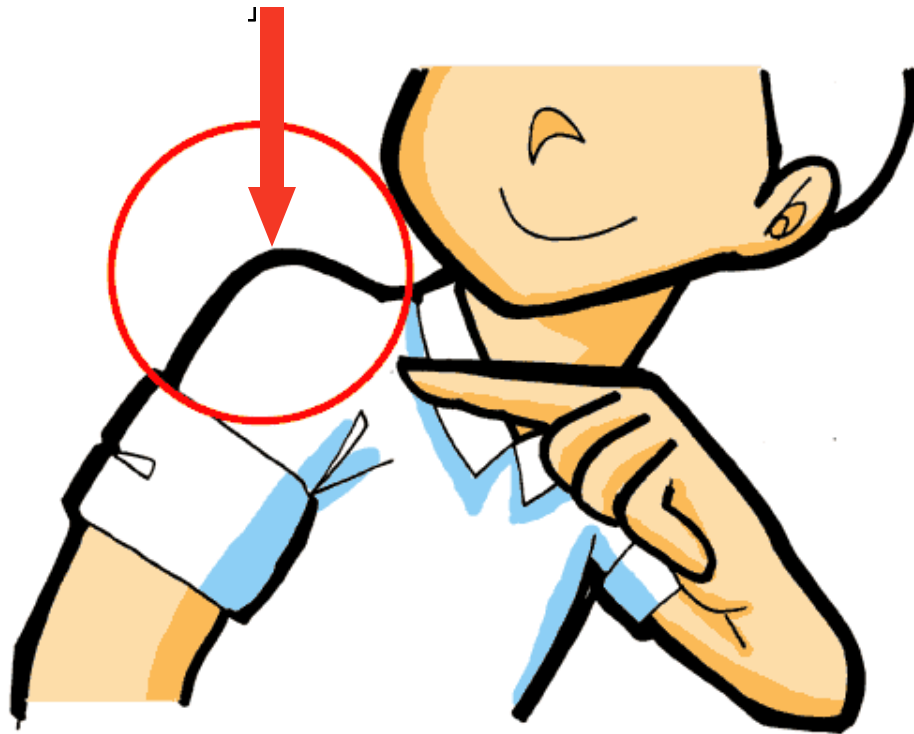


LANGUAGE of ANATOMY PART 2

Courtesy of Dr. Susan Maskel
Western Connecticut State University

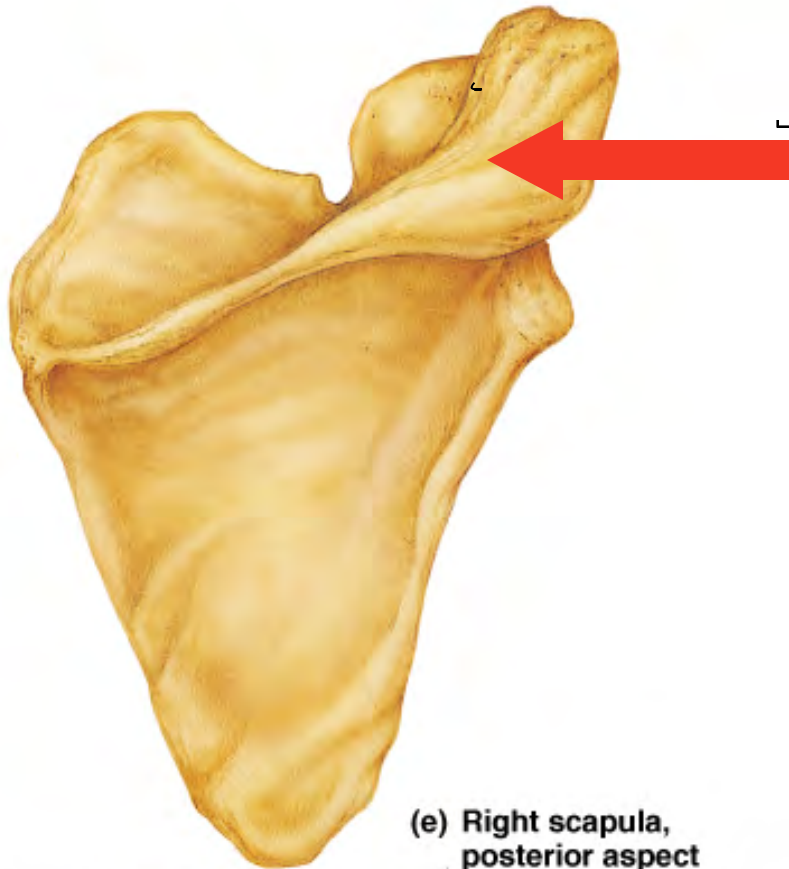


ACROMIAL

“pertaining to the point of the shoulder”

Note: this term was also used in Language of Anatomy Part 1

The
patient
had an
acromial
fracture.



(e) Right scapula,
posterior aspect

BRACHIAL

“pertaining
to the
arm”

*Note: refers to upper arm;
between shoulder & elbow*



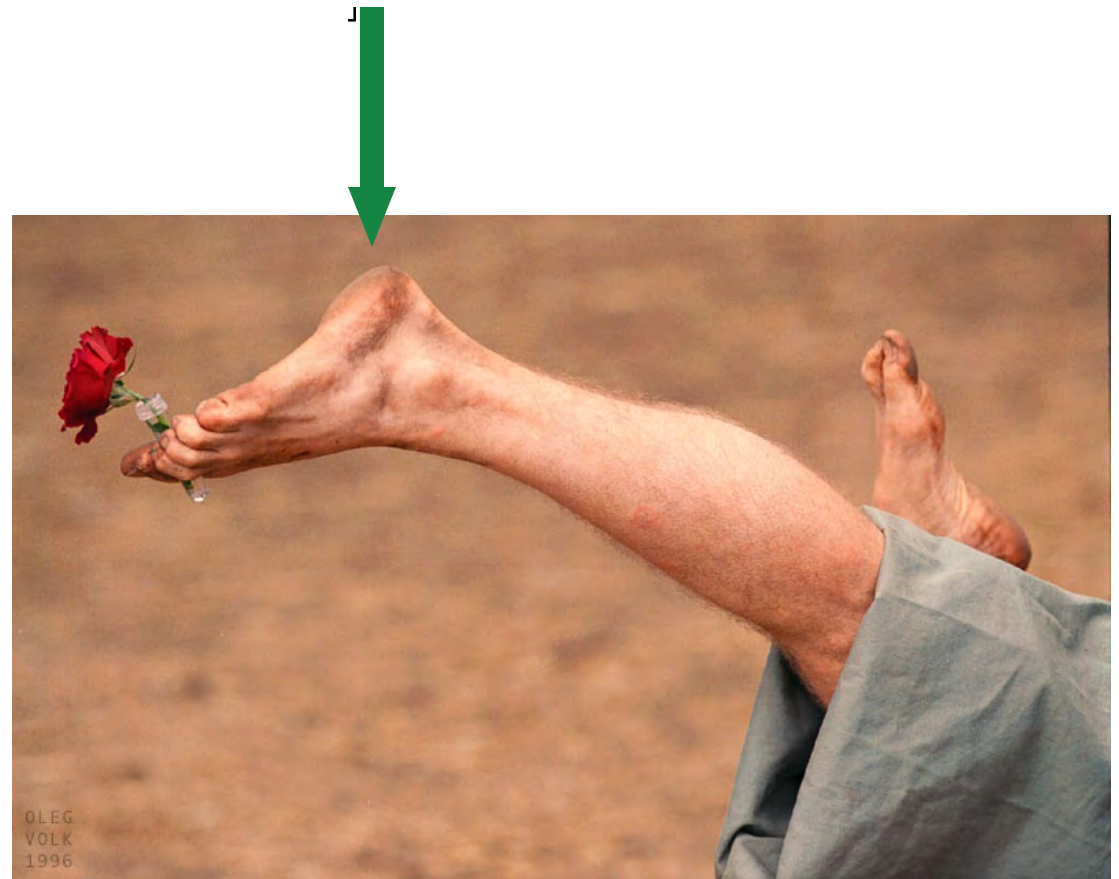
Note: this term was also used in Language of Anatomy Part 1



When taking a patient's blood pressure, the cuff of the sphygmomanometer is placed around the **brachium** & **brachial** artery.

CALCANEAL

“pertaining
to the heel
of the foot”





Calcaneal petechiae, also known as “black heel” or “talon noir”, is caused by hemorrhaging in the heel area. It was first noticed in some basketball players.



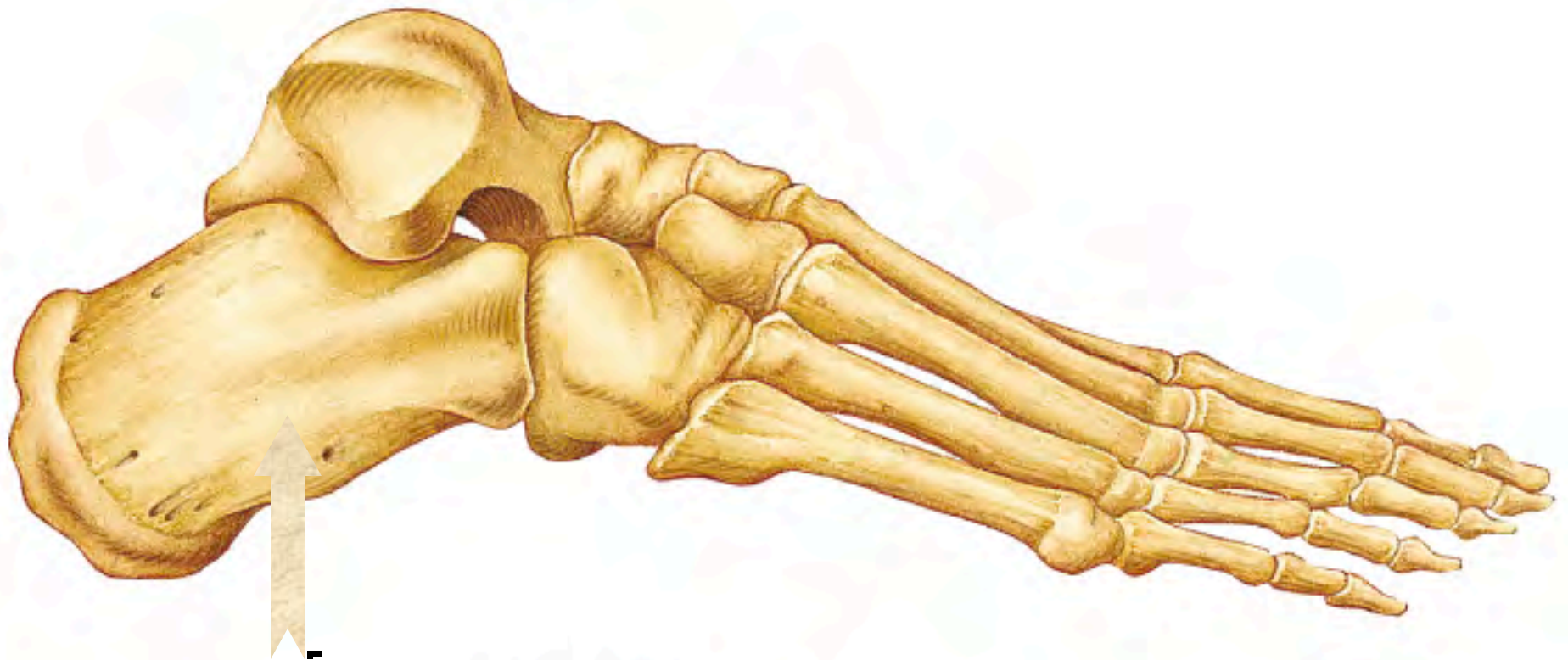
Pop Quiz!

What is the common name for the part of the foot you would expect the bone called the calcaneus to be in?

answer on next page

Answer:

heel



(c) Lateral view



CEPHALIC

“pertaining
to the
head”



Cephalic presentation is the most common birth position for a baby (i.e., the baby is born head first).

DORSUM

“pertaining
to the
back”



(b) Posterior

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Note: this term was also used in Language of Anatomy Part 1



The buttocks are on the
dorsum of the body.

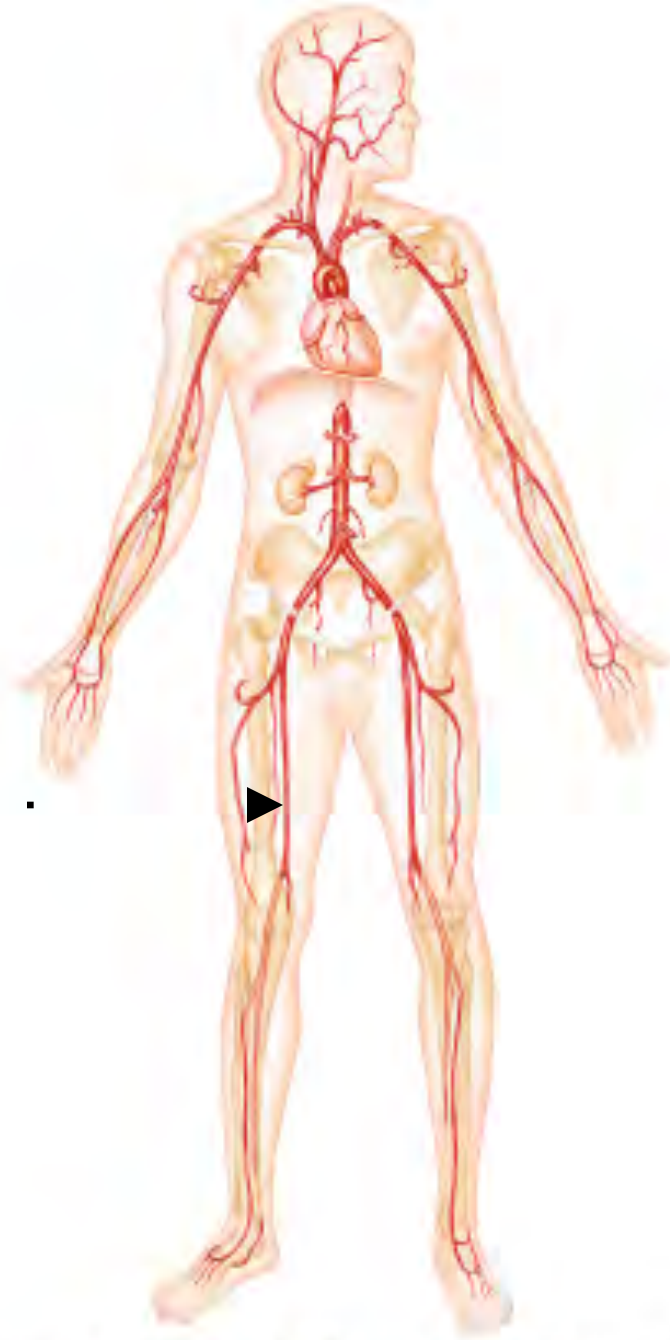
FEMORAL

“pertaining
to the
thigh”

*NOTE: this term was also
used in Language of Anatomy
Part 1*



The
femoral
artery is
located
in the
thigh
region.



(b)

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Pop Quiz!



What is the
scientific name
for the thigh
region?

answer on next page

ANSWER

femoral
region





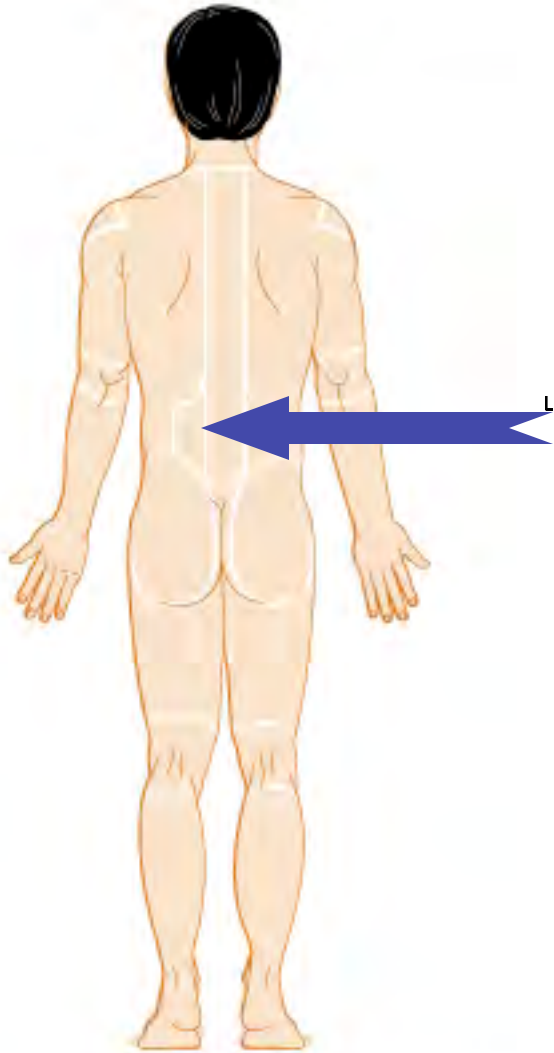
GLUTEAL

“pertaining to
the buttocks or
rump”

Muscles in the
gluteal region are in
part responsible for
hip movements.

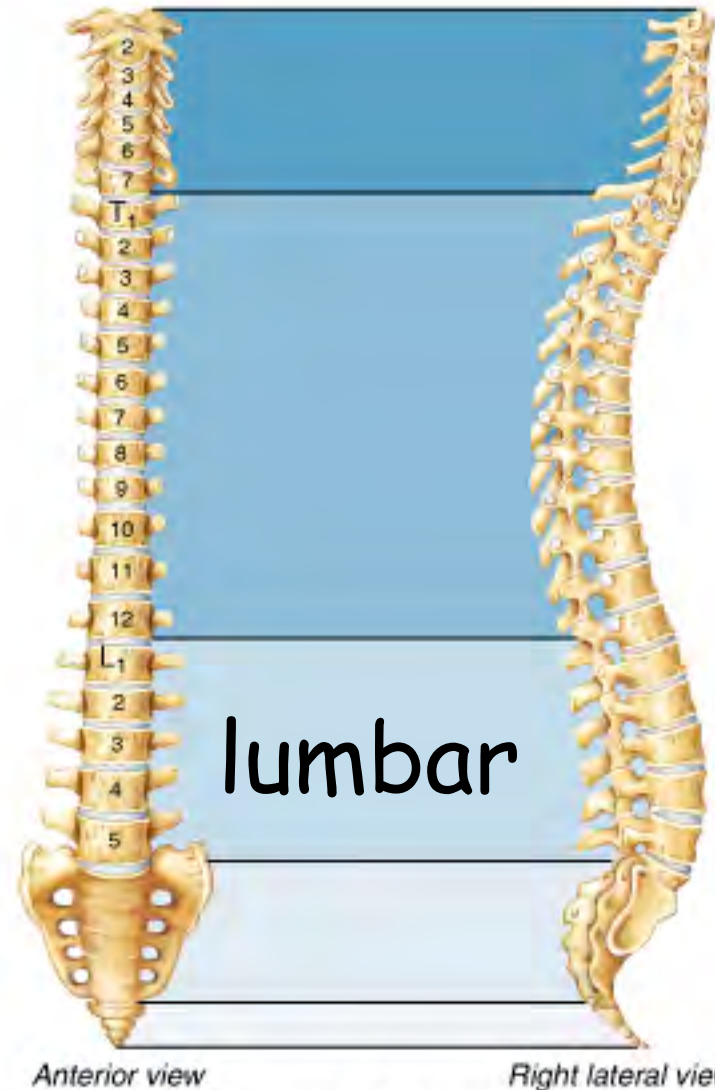
LUMBAR

“pertaining to the area of the back between the ribs and hips; the loin”



(b) Posterior

People
have five
lumbar
vertebrae.



MANUS

“pertaining to the hand”



Manus plana is a condition in which the hand lacks its normal arches (like flat feet in feet).



Pop Quiz!

What is the common name of the part of the body that a lumbar support is used to support?

answer on next page

Answer:

**Lower
back**

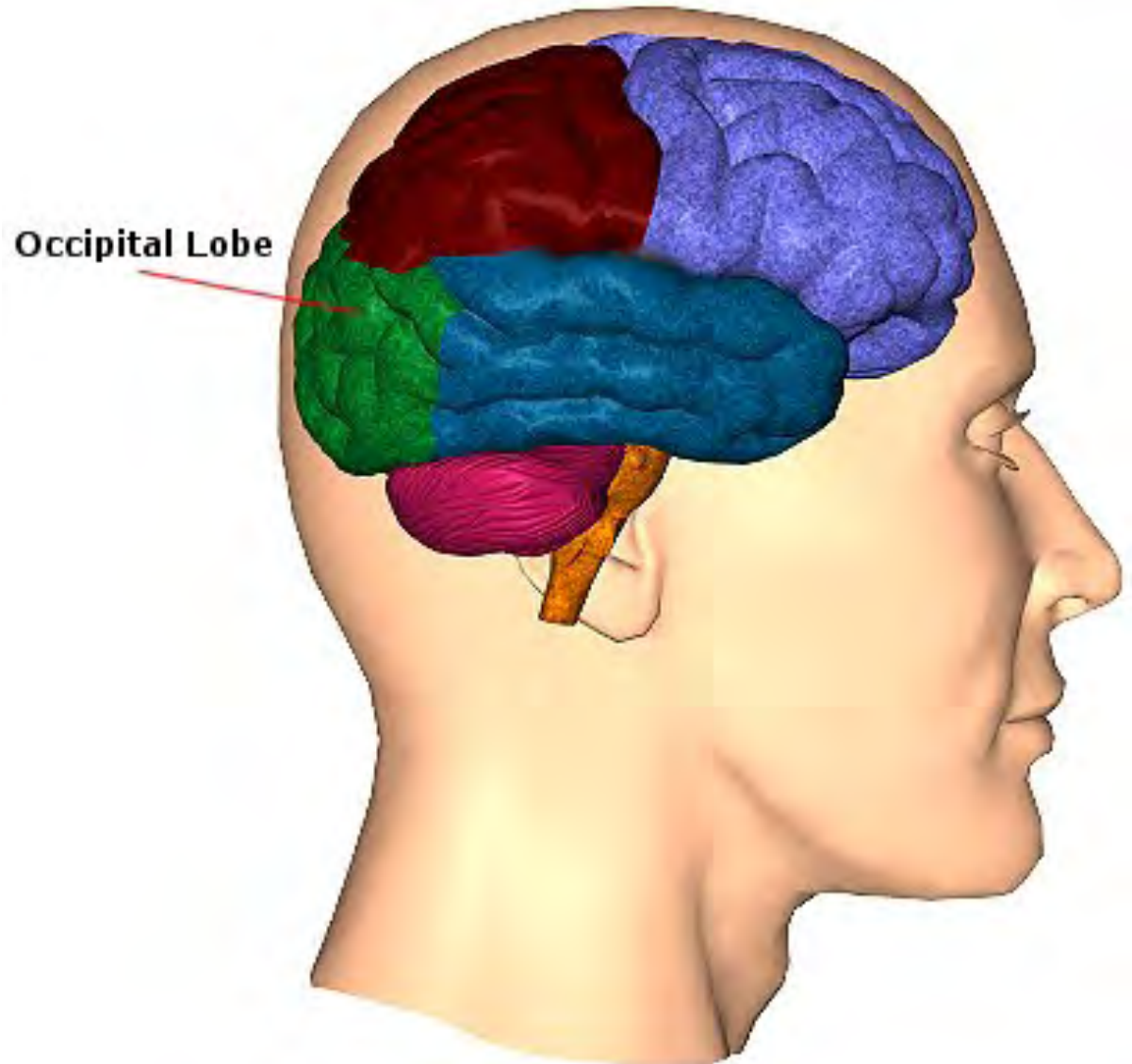




OCCIPITAL

“pertaining to the posterior aspect of the head or base of the skull”

The
occipital
lobes of
the brain
are where
visual
perception
takes place.



OLECRANAL

“pertaining to
the elbow”

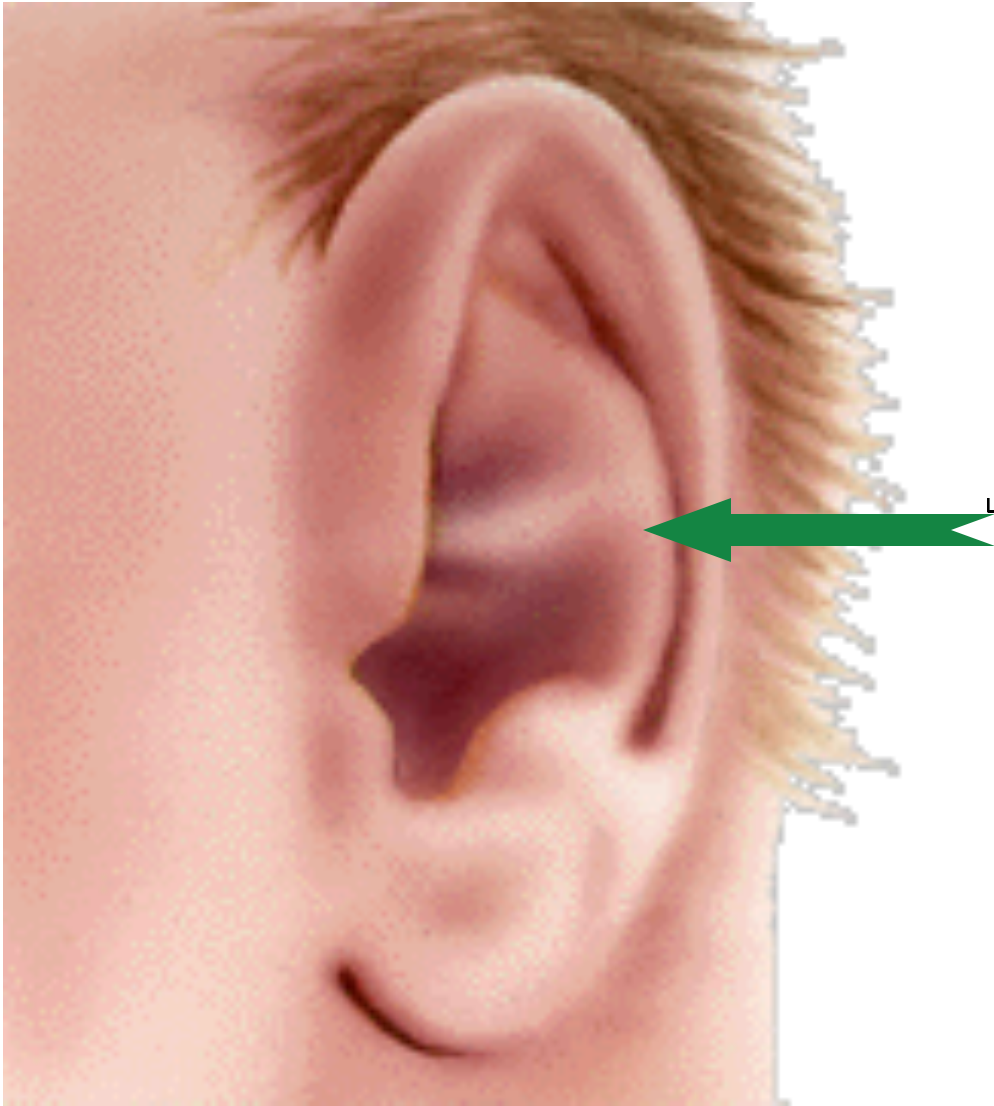


The olecranon process of the ulna is what you feel when you touch the point of your elbow.

*olecranon
process of
ulna*



(b) Posterior view



OTIC

“pertaining to
the ear”

Ofloxacin **otic** solution
is an eardrop solution
used to treat
otitis media
(middle ear infection).

Pop Quiz!

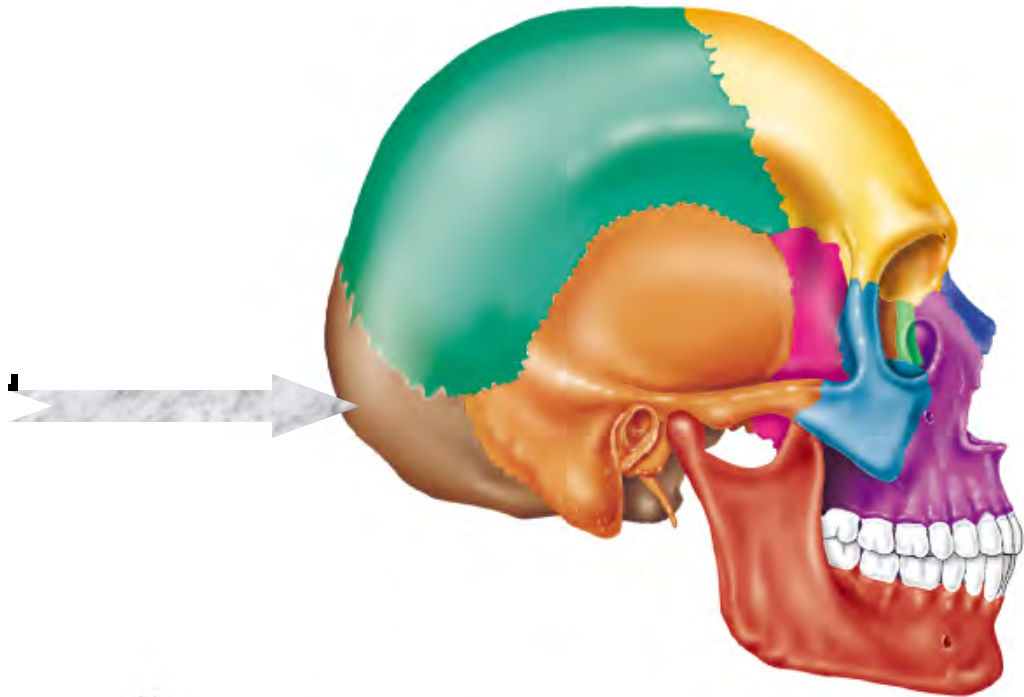


Where would you expect to find the occipital bone?

answer on next page

Answer:

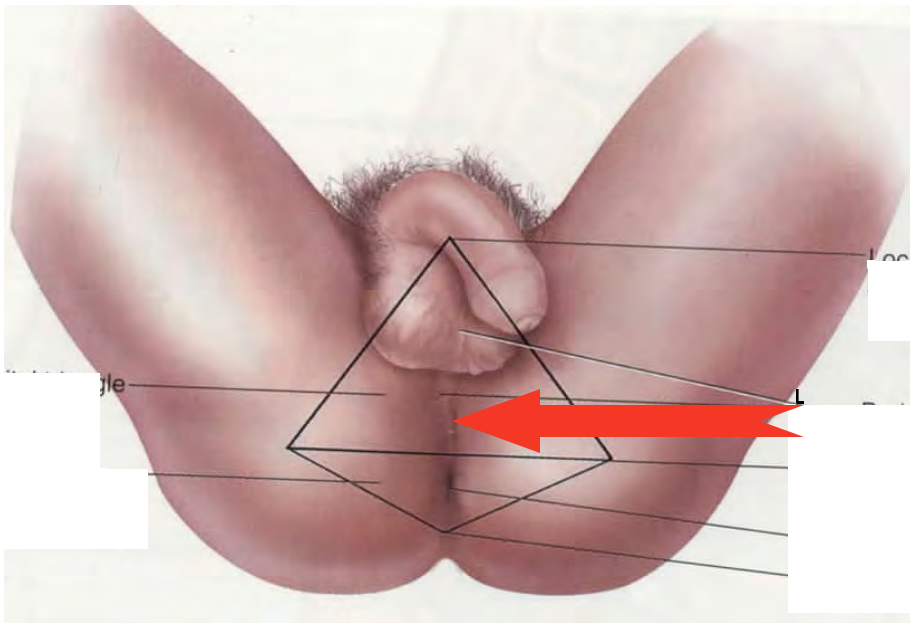
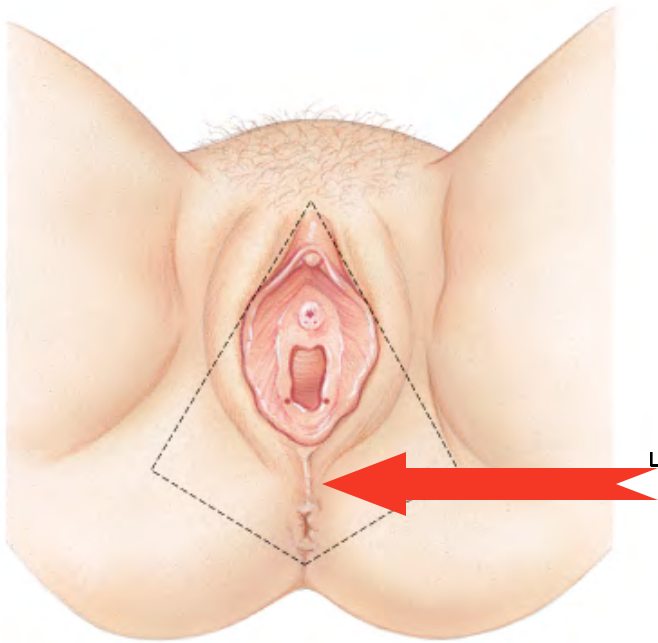
Back
of
head



(a)
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PERINEAL

“pertaining to the region between the anus and external genitalia”



Sometimes during childbirth, an episiotomy (i.e. a cut from the vagina into the **perineal** area) is performed to widen the area through which the baby can exit the birth canal.



PLANTAR

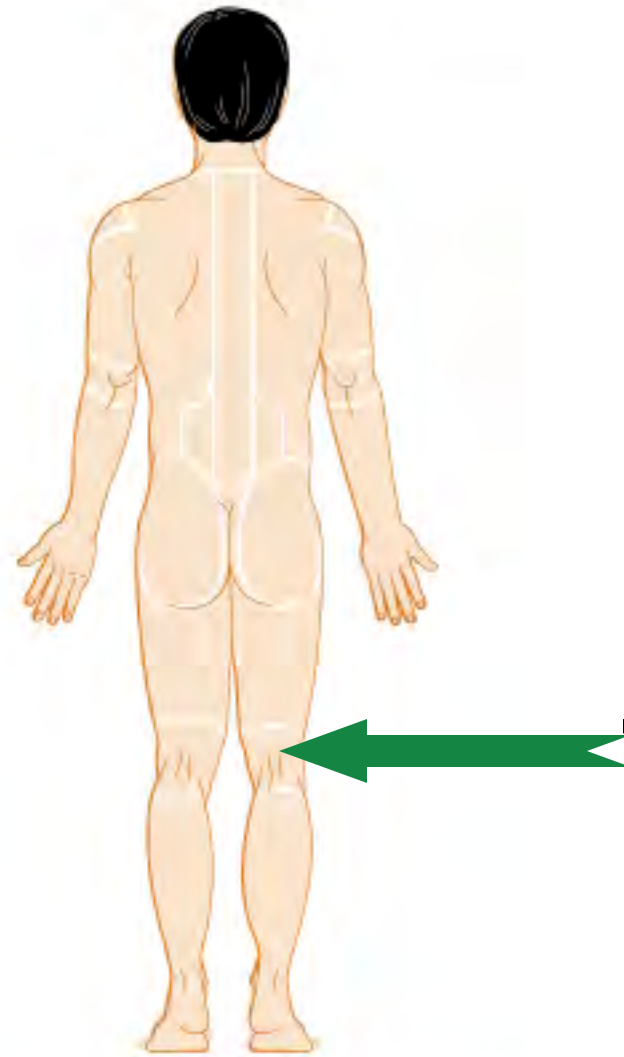
“pertaining to
the sole
of the foot”



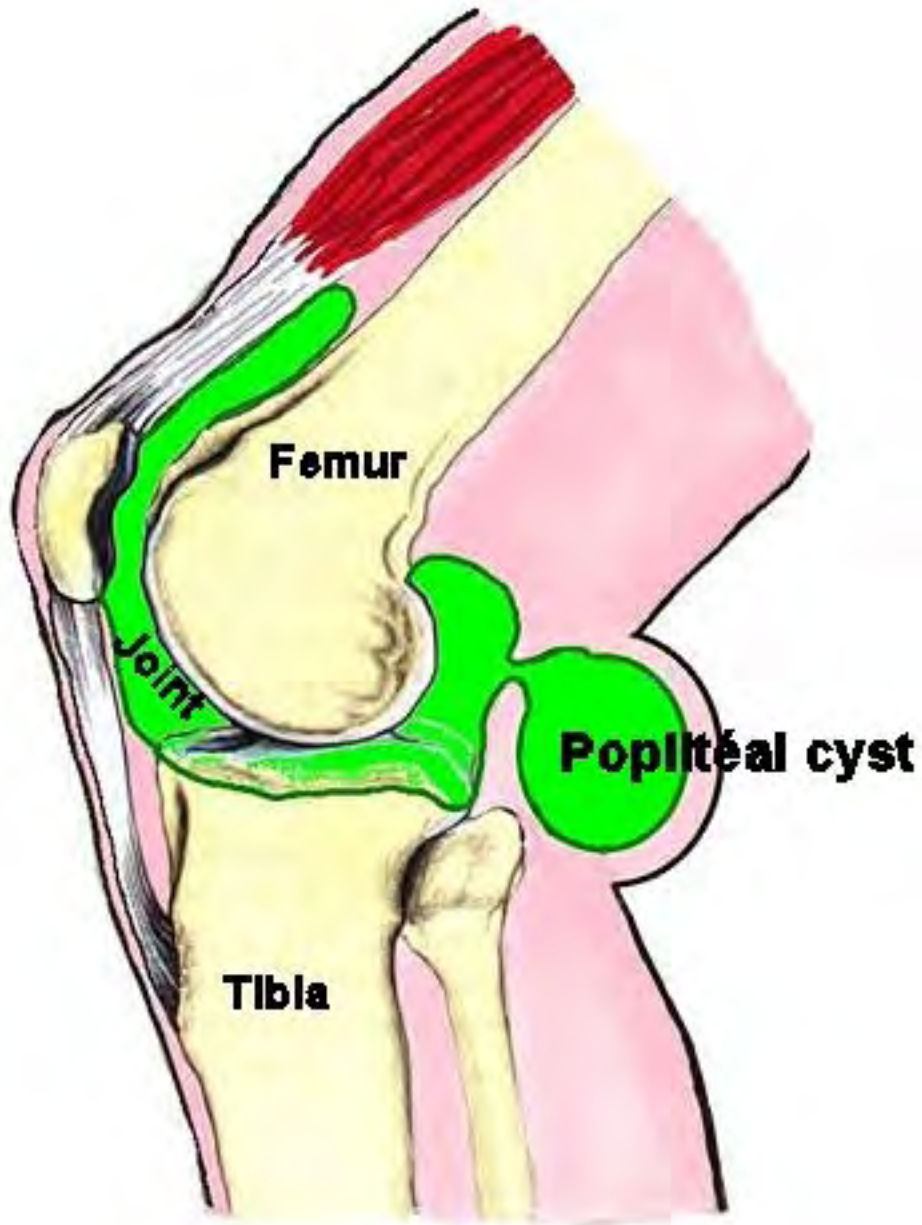
Plantar warts are caused by a papilloma virus.

POPLITEAL

“pertaining to
the back of the
knee”



(b) Posterior



A popliteal cyst (also called a Baker's cyst) is a fluid filled sac located in the back of the knee.

Pop Quiz!



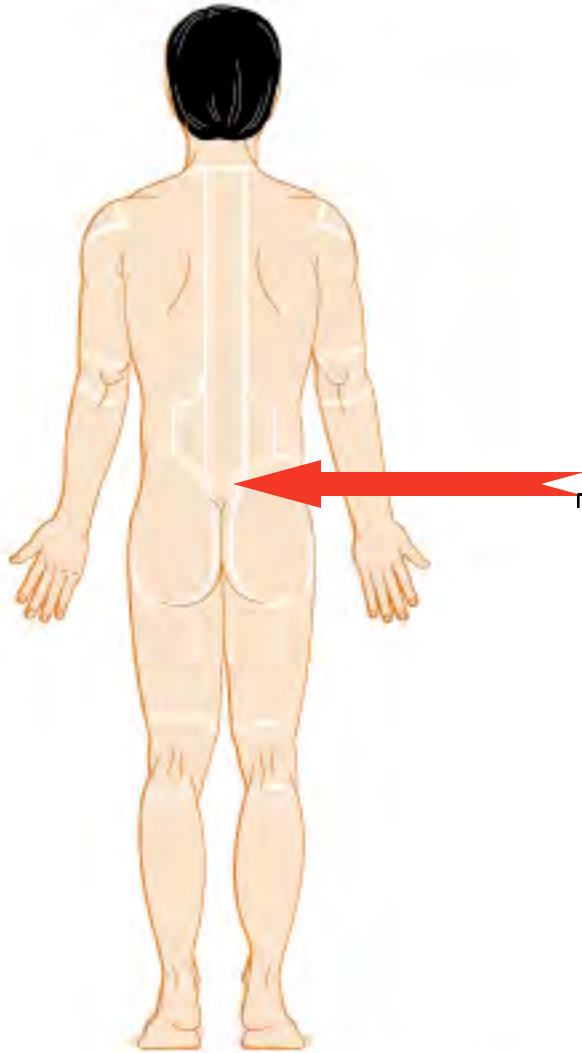
The bottom of
the foot is
called the ?
region.

answer on next page

Answer:

PLANTAR



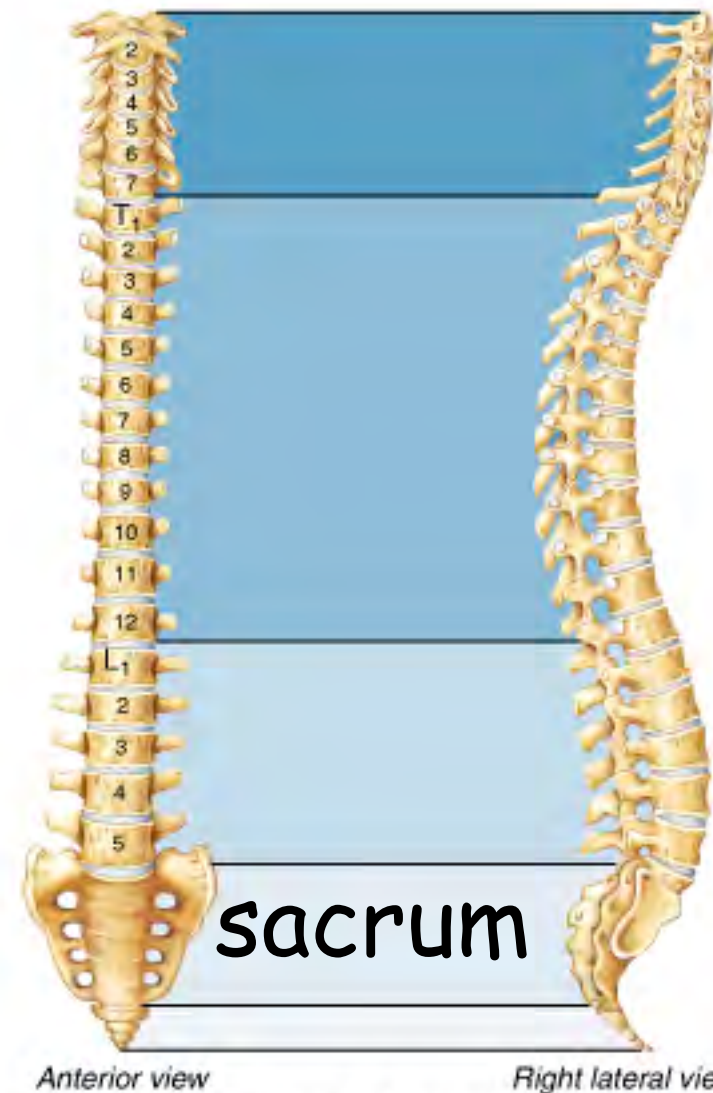


(b) Posterior

SACRAL

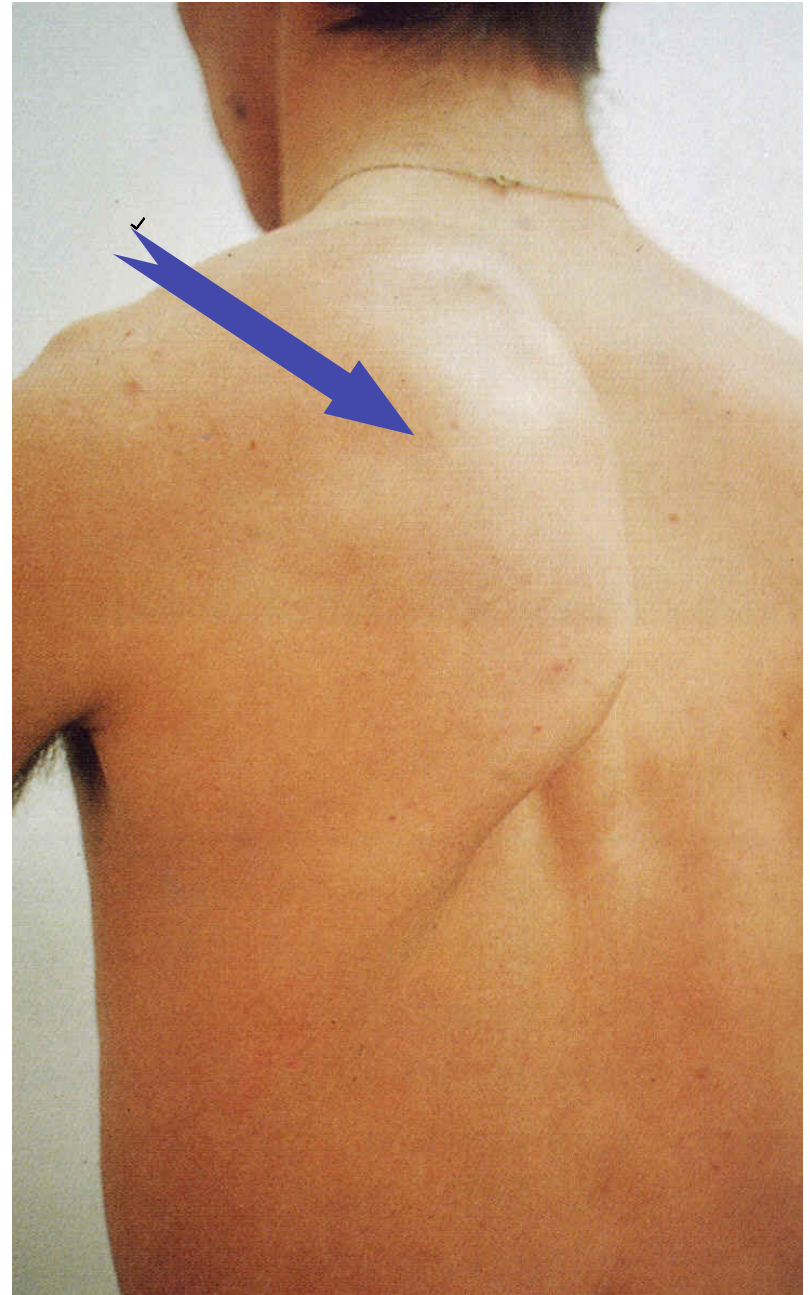
“pertaining to
the region
between the
hips”

People have one **sacral** vertebra (the **sacrum**) which is made of five fused bones.



SCAPULAR

“pertaining to
scapula or
shoulder blade
area”

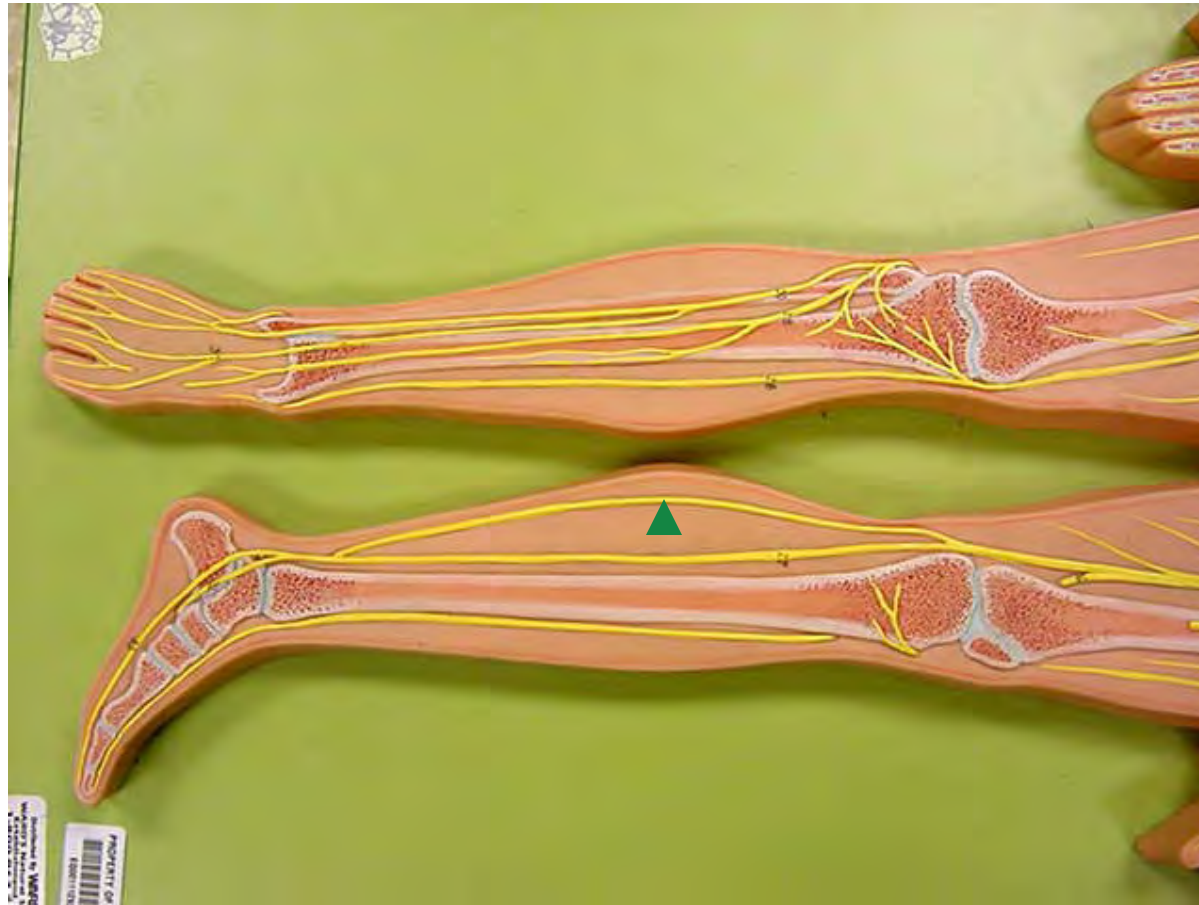


“Scapulalgia” means
“pain in the scapular
region”.



SURAL

“pertaining to
the calf or
posterior
surface of the
leg”



The **sural** nerve is found in the calf region.

Pop Quiz!



The ? is the
bone that is
commonly
called the
shoulder blade.

answer on next page



(e) Right scapula,
posterior aspect

ANSWER

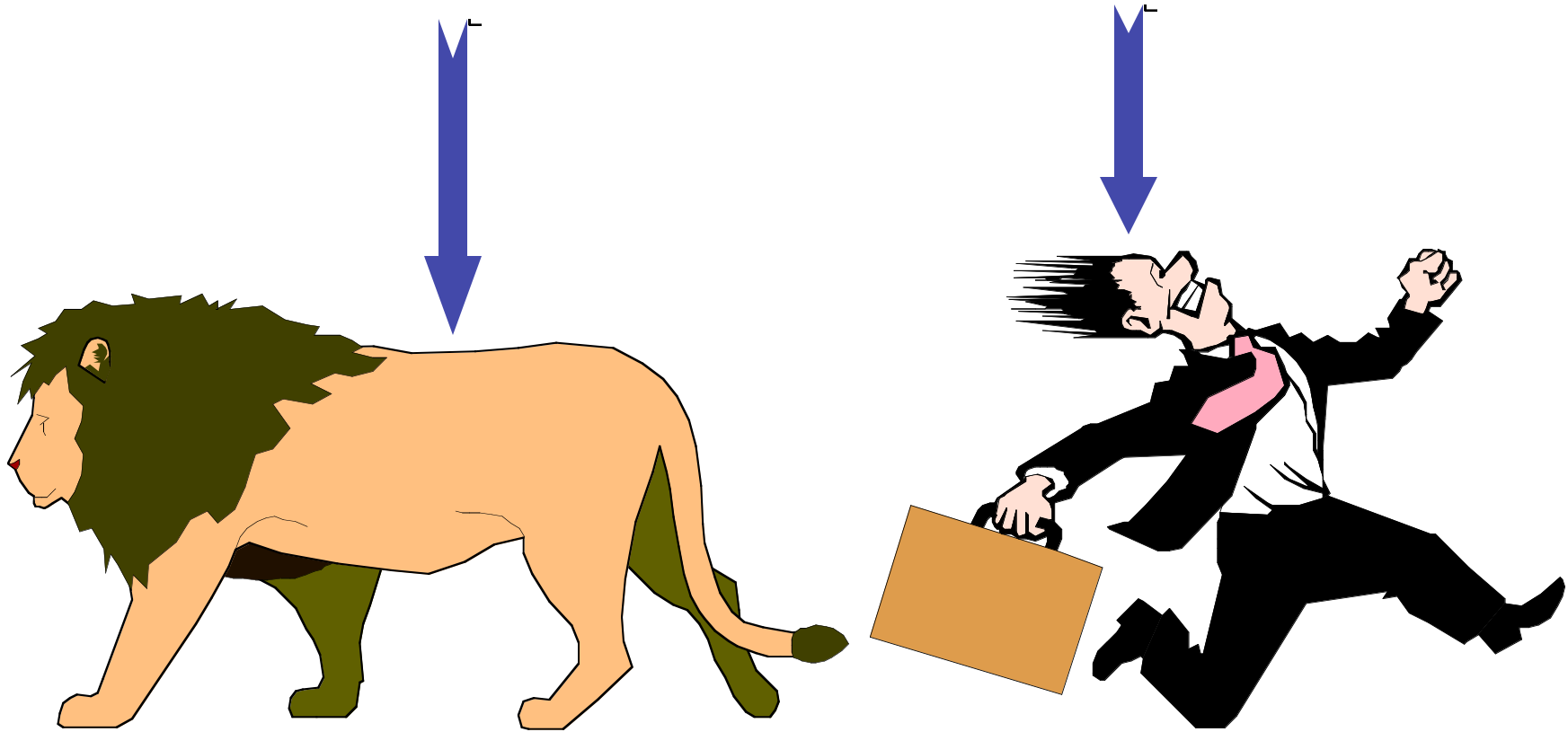
scapula

VERTEBRAL

“pertaining to the area of the spinal column”

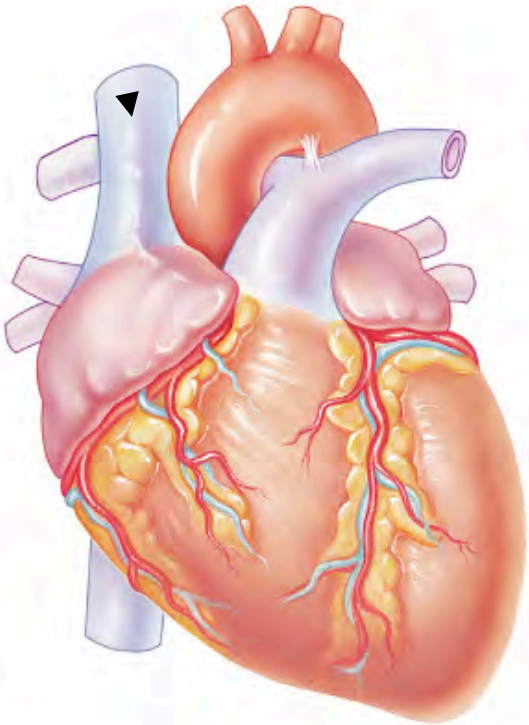


The **vertebral** arteries
pass through holes
called **vertebral**
foraminae in the
cervical **vertebrae**.



SUPERIOR

“above”



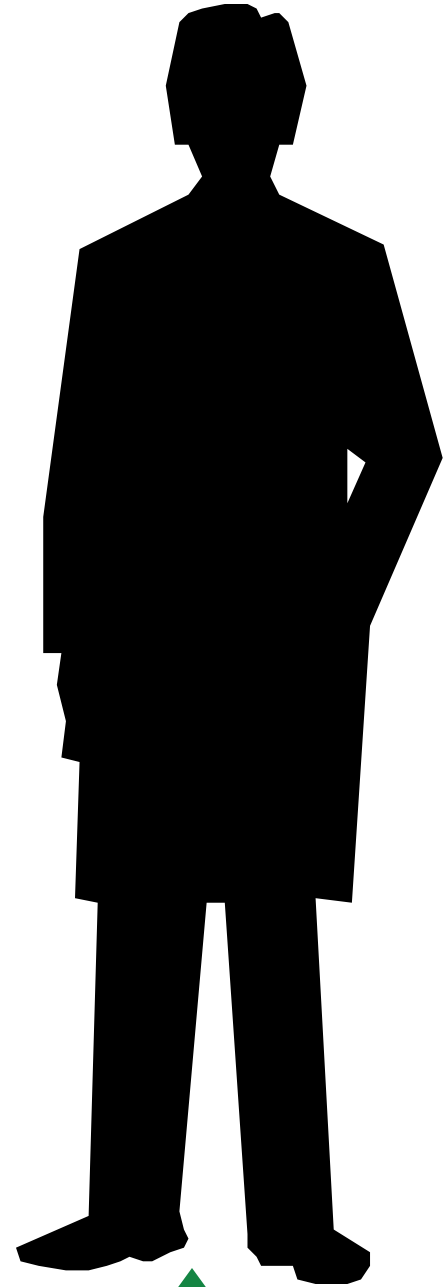
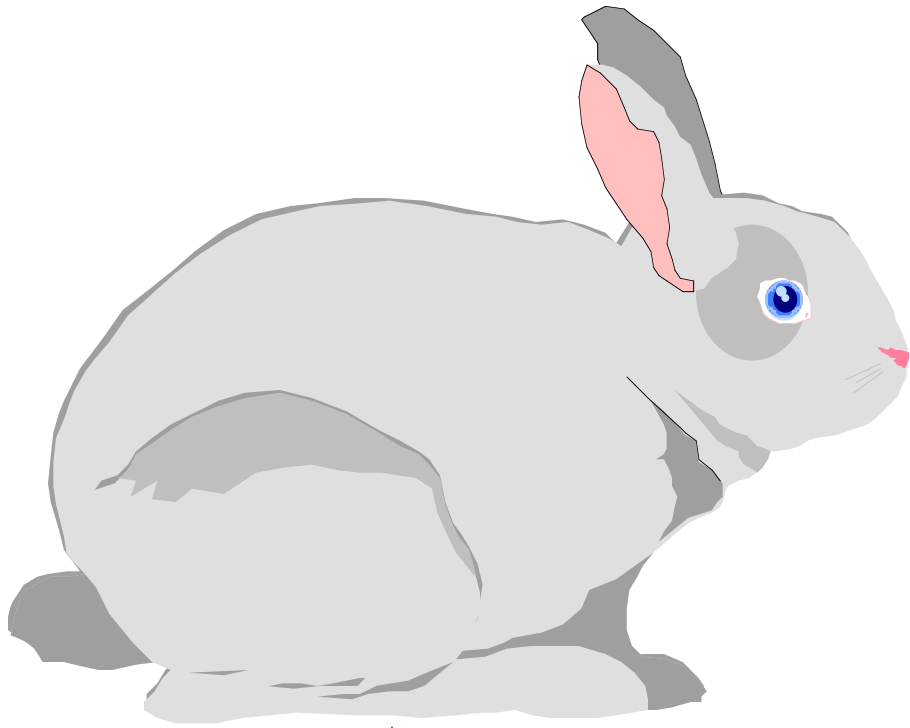
The **superior vena cava** carries blood to the heart from areas above the level of the heart.

(b)

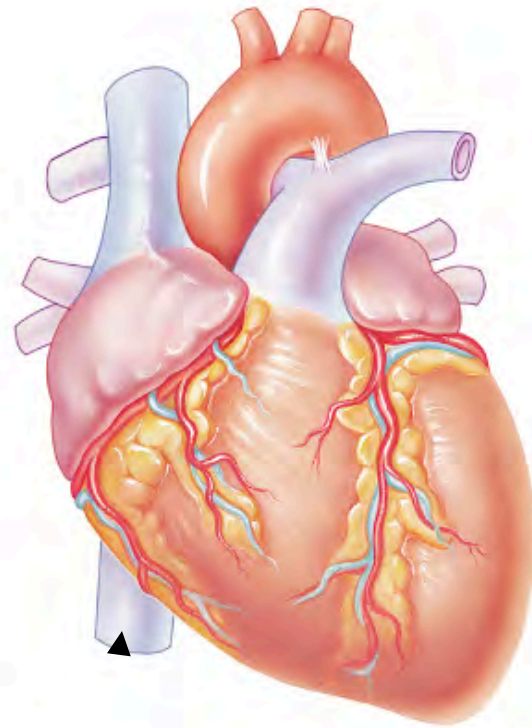
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INFERIOR

“below”



The **inferior vena cava** carries blood to the heart from areas below the level of the heart.



(b)

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Pop Quiz!



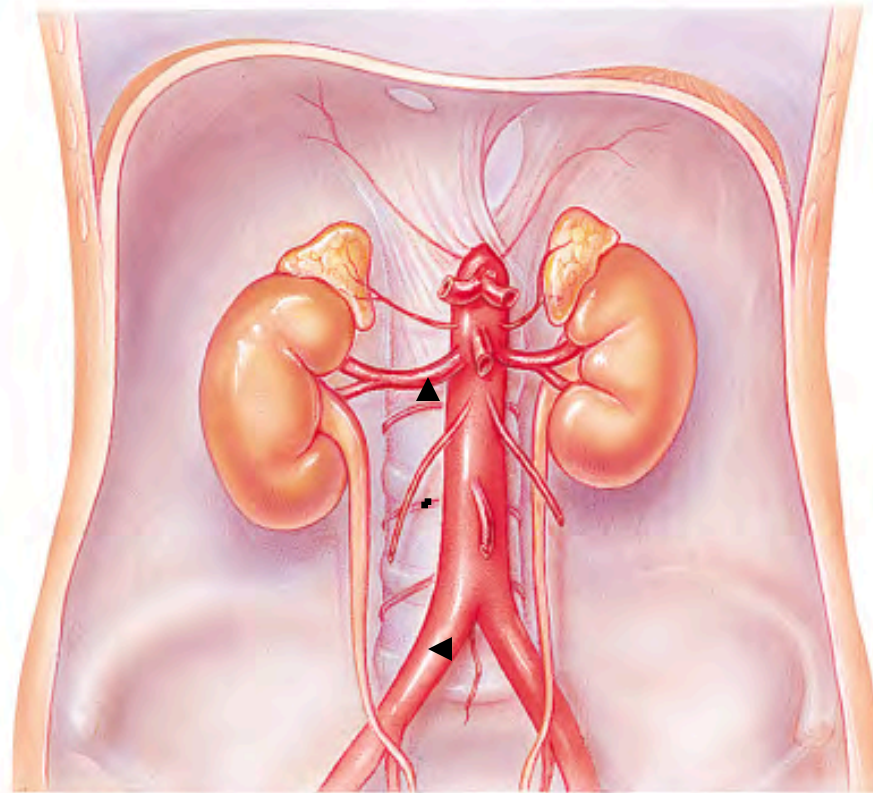
The renal arteries are above or ? to the common iliac arteries.

answer on next page

Answer:

SUPERIOR

Renal
artery



Common
iliac
artery

(c)

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ANTERIOR

“front”



(a) Anterior

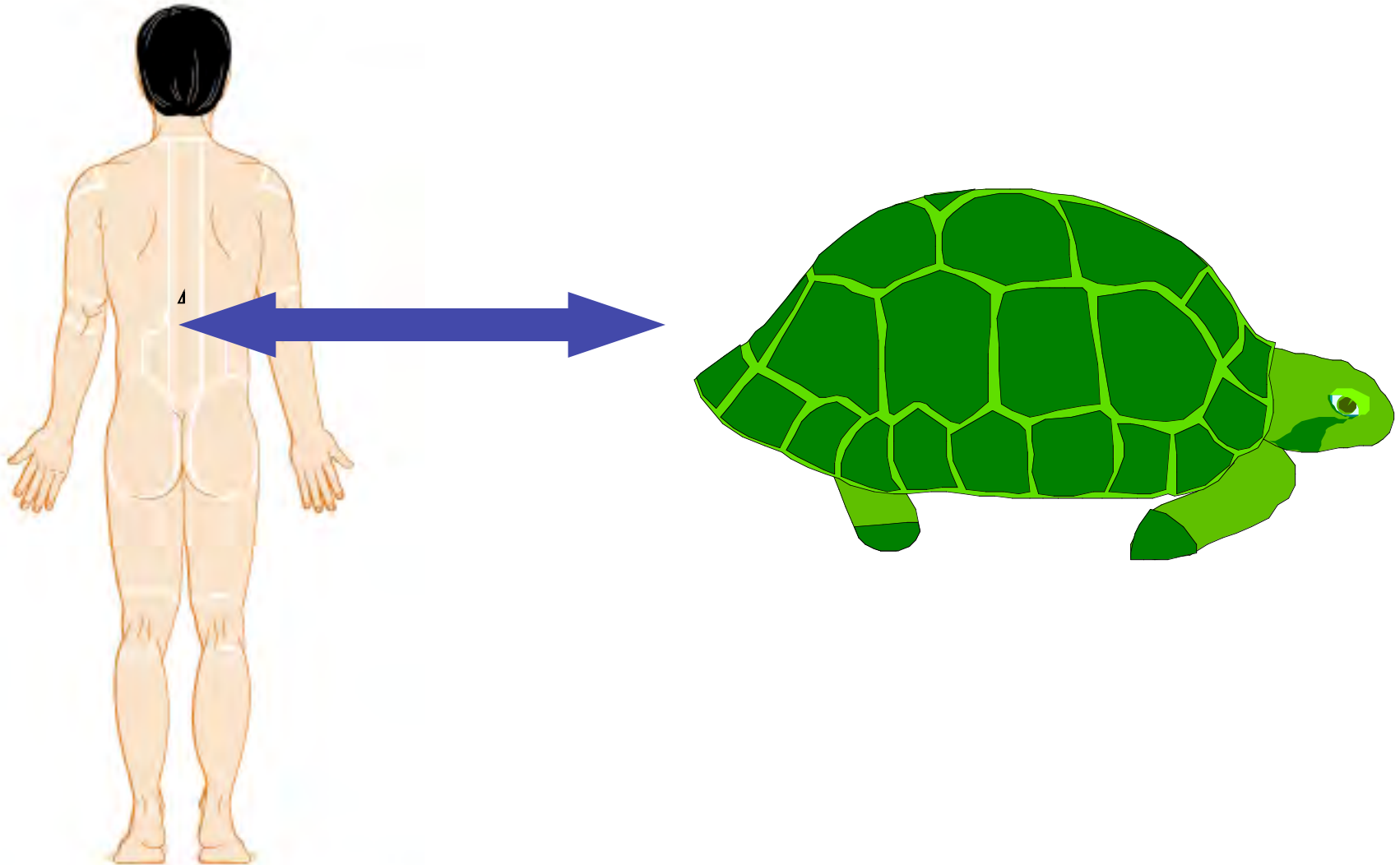




The umbilicus is on the **anterior** surface of the body.

POSTERIOR

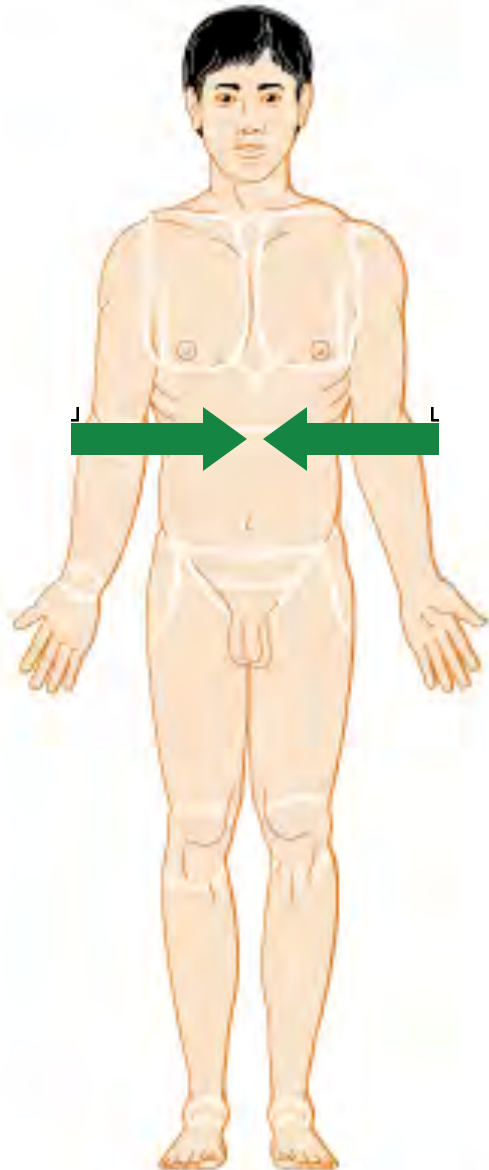
“back”



(b) Posterior



The word “popliteal” refers to the **posterior** surface of the knee.



(a) Anterior

MEDIAL

“toward the
midline”

The
tibia is
medial
to the
fibula.



Pop Quiz!



The cephalic region of the cat is ? to (i.e. in front of) its caudal (tail) portion.

- A. Inferior
- B. Anterior
- C. Posterior

answer on next page

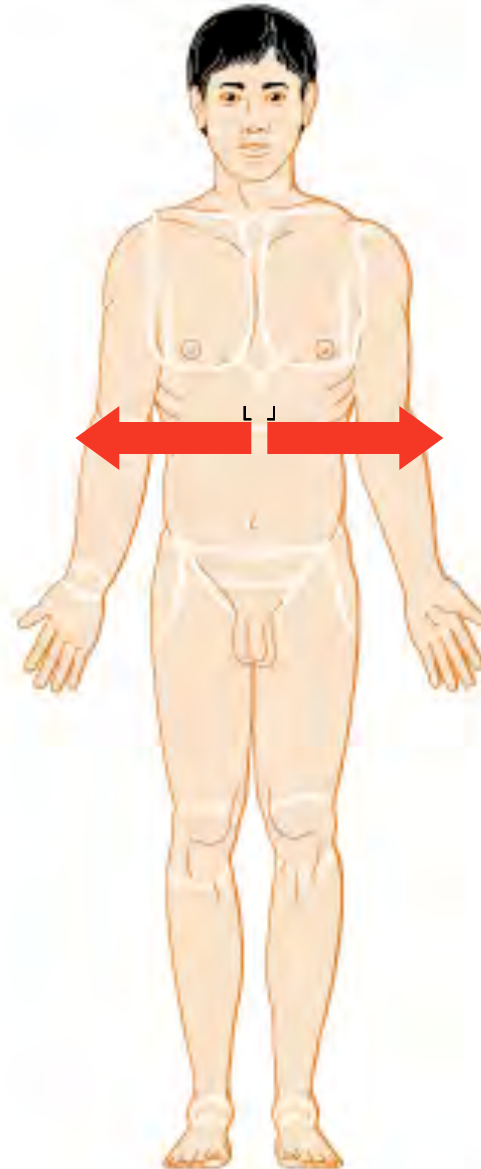


Answer:

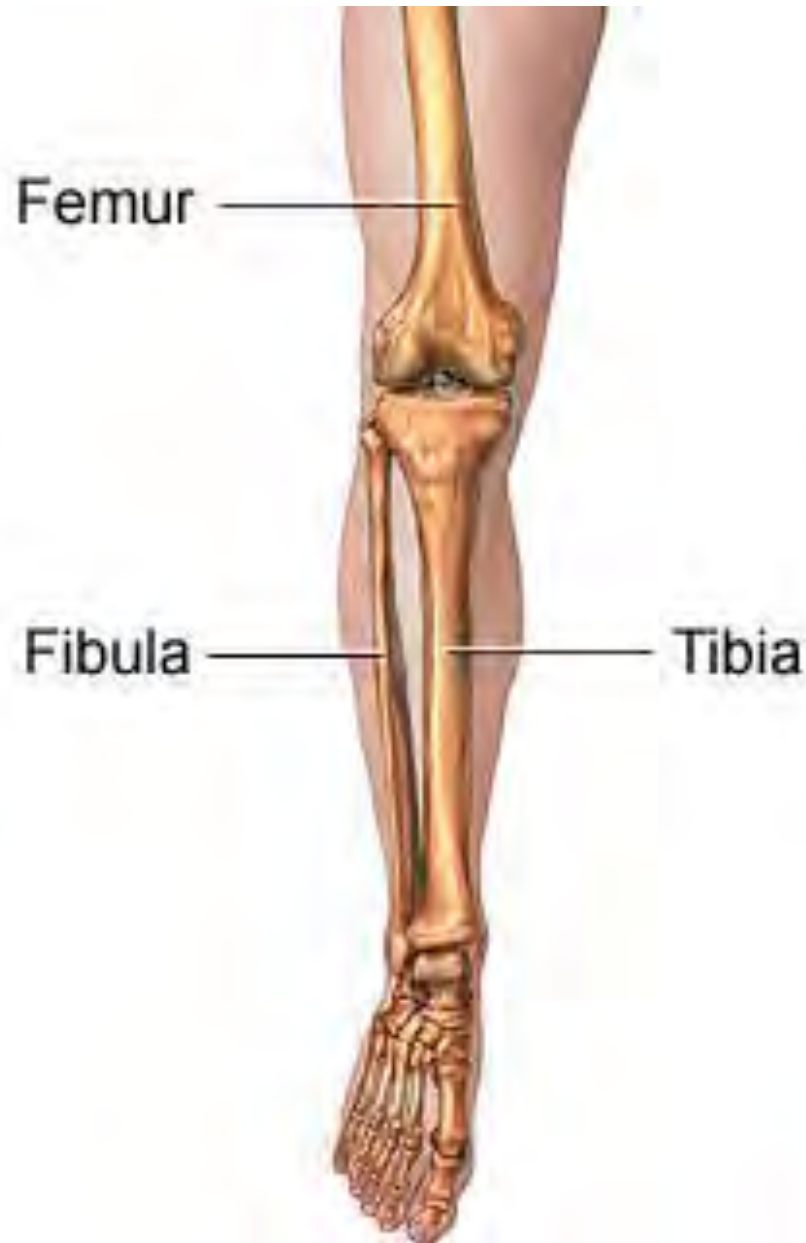
ANTERIOR

LATERAL

“away from the
midline or medial
plane”



(a) Anterior



The
fibula is
lateral
to the
tibia.

*this
direction*



CEPHALAD (CRANIAL)

“toward the head”

Note: same meaning as
“cephalic”

A research article entitled, “Does Neck Extension Elevate the Thyroid Gland *Cephalad* to Potentially Improve Access During Thyroidectomy?” was published in the ANZ Journal of Surgery (73(11):887) in 2003.

*that
direction*



CAUDAL

“toward the tail”

Caudal regression syndrome is a pathological condition in which there is either under development or a lack of development of the lower (i.e., the **caudal**) portion of the vertebral column.

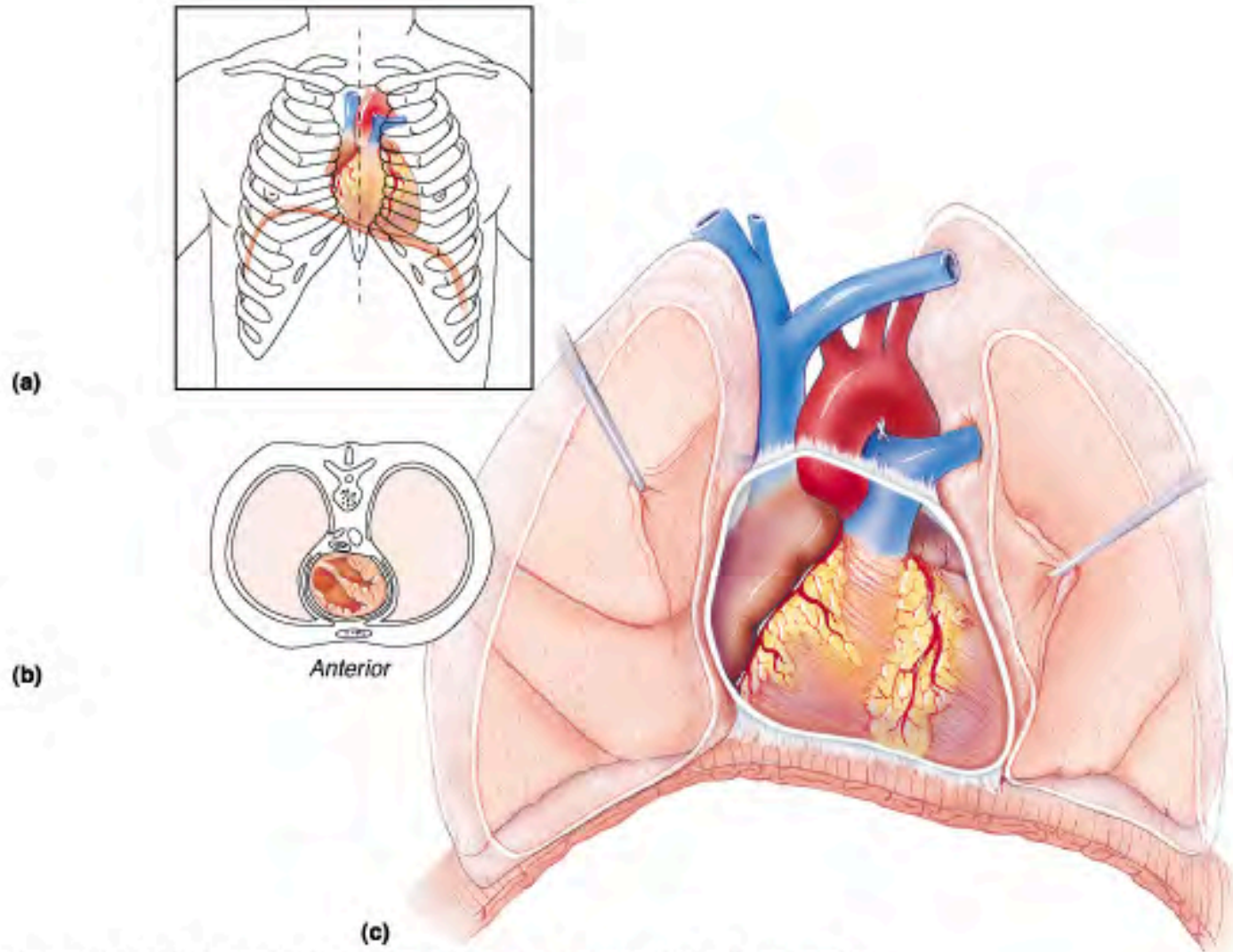


Pop Quiz!

Are the lungs
caudal,
cephalad, or
lateral to the
heart?

answer on next page

Answer: LATERAL



DORSAL “backside”

dorsal



dorsal



Note: the word “dorsum” was defined previously in this module.



The patient was laid on her **dorsum** (**dorsal** side) in preparation for surgery.

VENTRAL “belly side”



ventral



The umbilicus is on the anterior or **ventral** surface of the body.

PROXIMAL

“nearer the trunk or attached end”

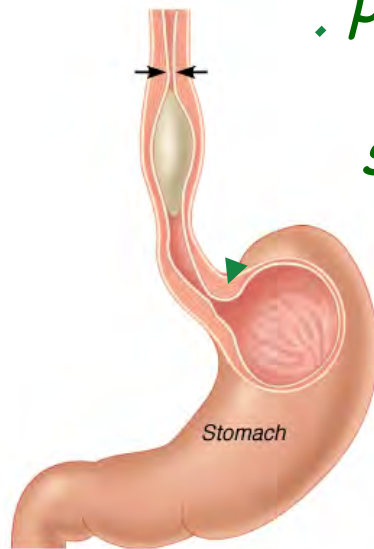
proximal end of humerus



(a) Anterior view

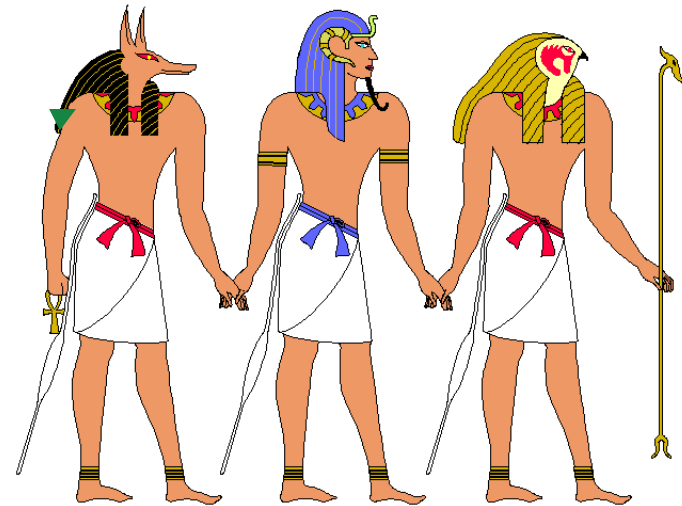
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proximal end of stomach



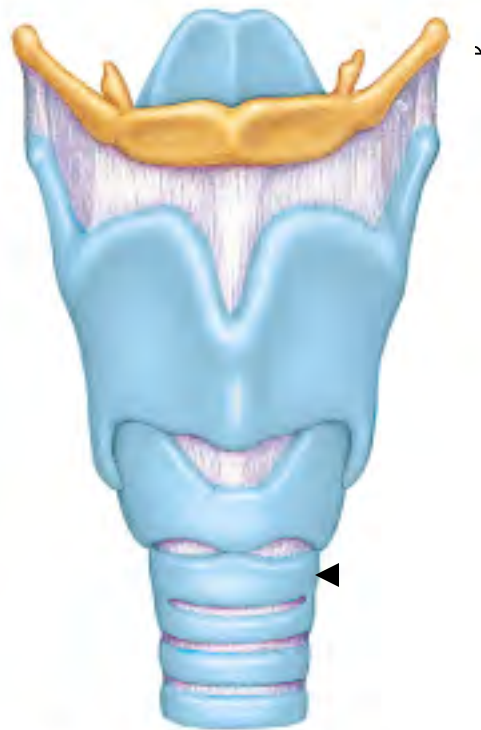
(d)

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proximal end of upper limb

The **proximal** portion of the trachea is attached to the larynx.



larynx

· *proximal portion of trachea*

(a)

Pop Quiz!



When you dissect the back muscles of a cat later this semester, you will lay the cat on its ? surface so that the back muscles will be on top of the cat.

answer on next page

ANSWER

ventral



DISTAL

“farther from the trunk or attached end”

distal end of humerus



(a) Anterior view

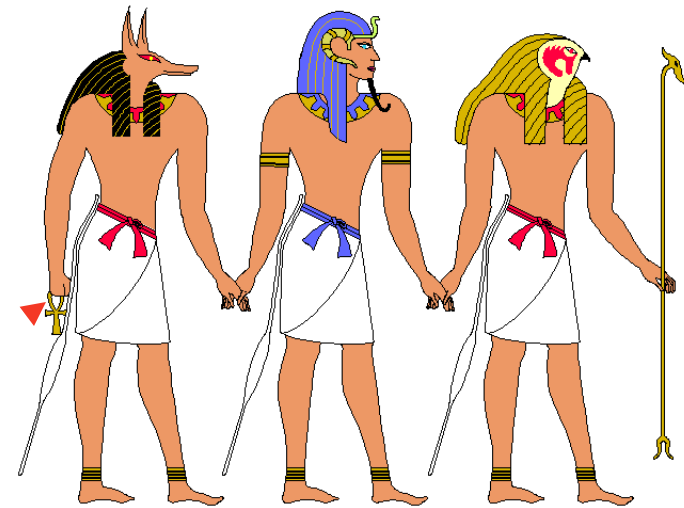
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distal end of stomach



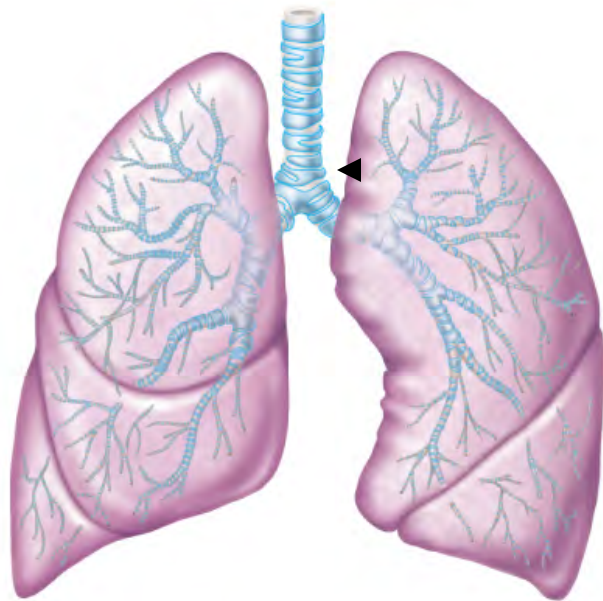
(d)

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distal end of upper limb

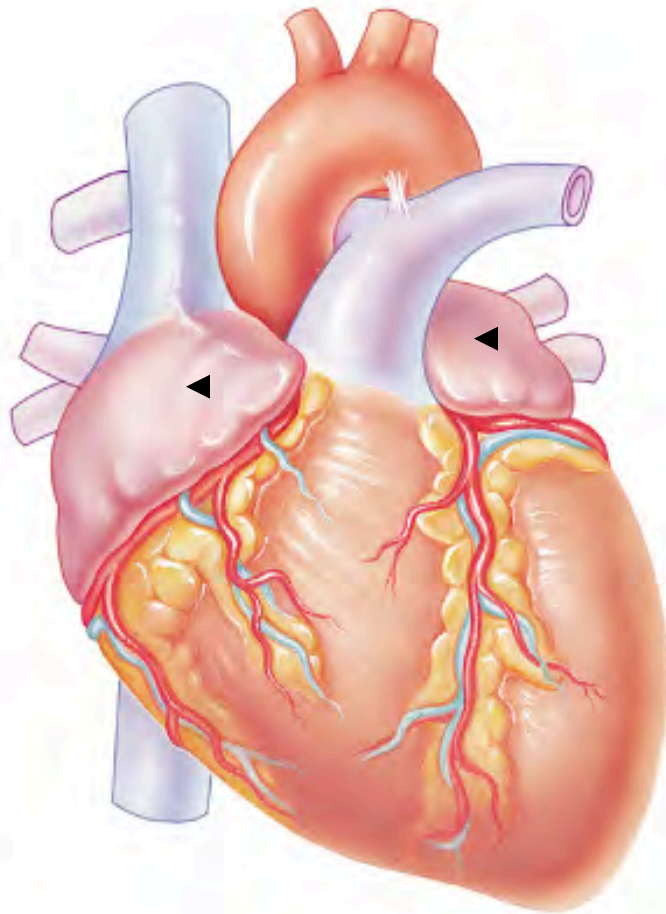
The **distal** portion of the trachea is attached to the primary bronchi.



. **distal** portion of trachea

SUPERFICIAL (EXTERNAL)

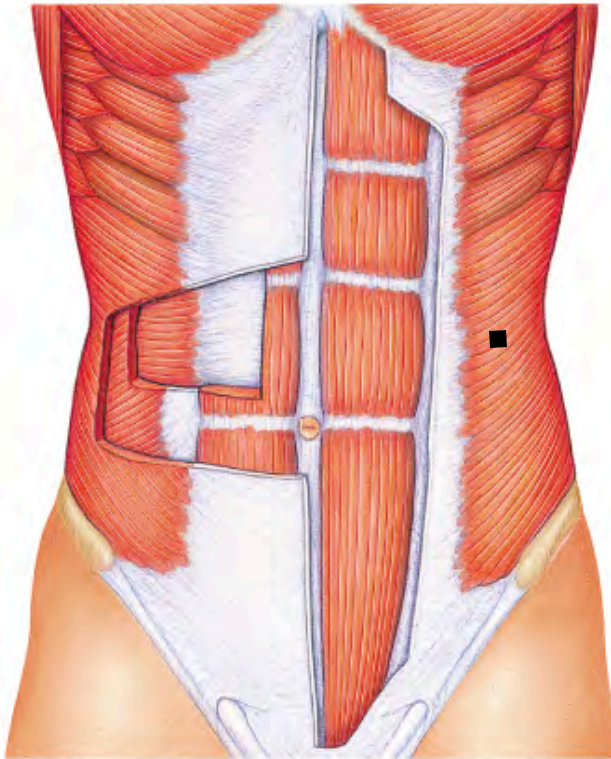
“toward or at the body surface”



*the
auricles
are
superficial
heart
structures*

(b)

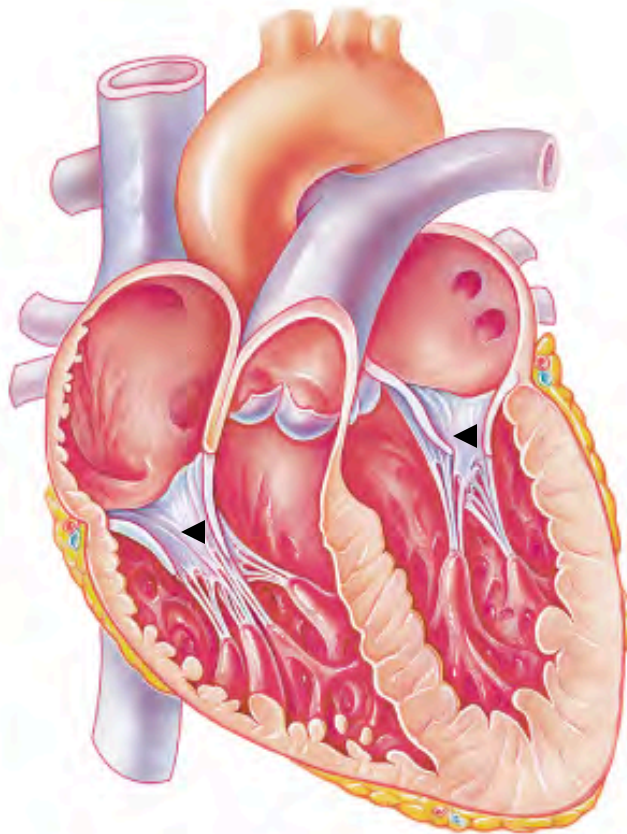
The external oblique is a superficial muscle (since you don't have to cut through other muscles to get to it).



(a)

DEEP

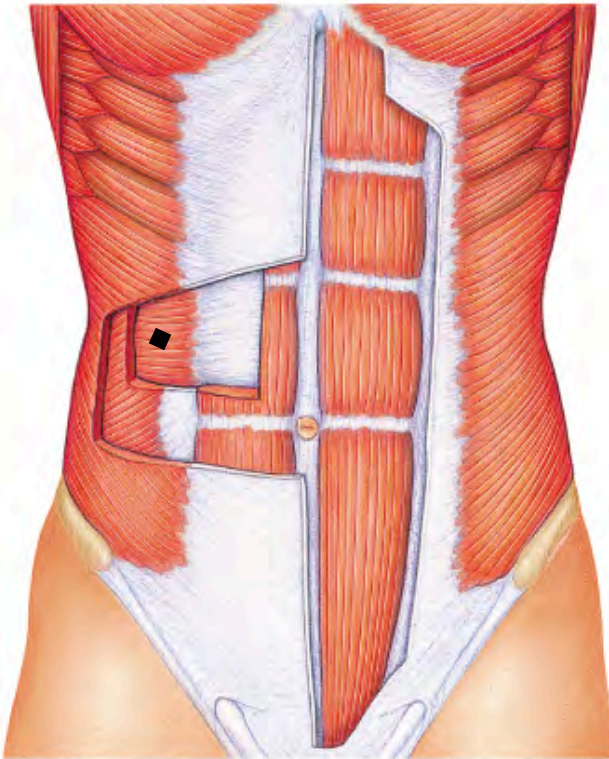
“away from the body surface”



*the
atrioventricular
· valves are
· deep
heart
structures*

(e)

The
transversus
abdominis
is a **deep**
muscle (since
you have to
cut through
other muscles
to get to it).



(a)

Pop Quiz!



Since the skin is on the surface of the body, it is considered a ? organ.

answer on next page



Answer

superficial



end of
Part 2
of Language
of Anatomy