Physiotherapy

Unit 10 – Anatomical Locations

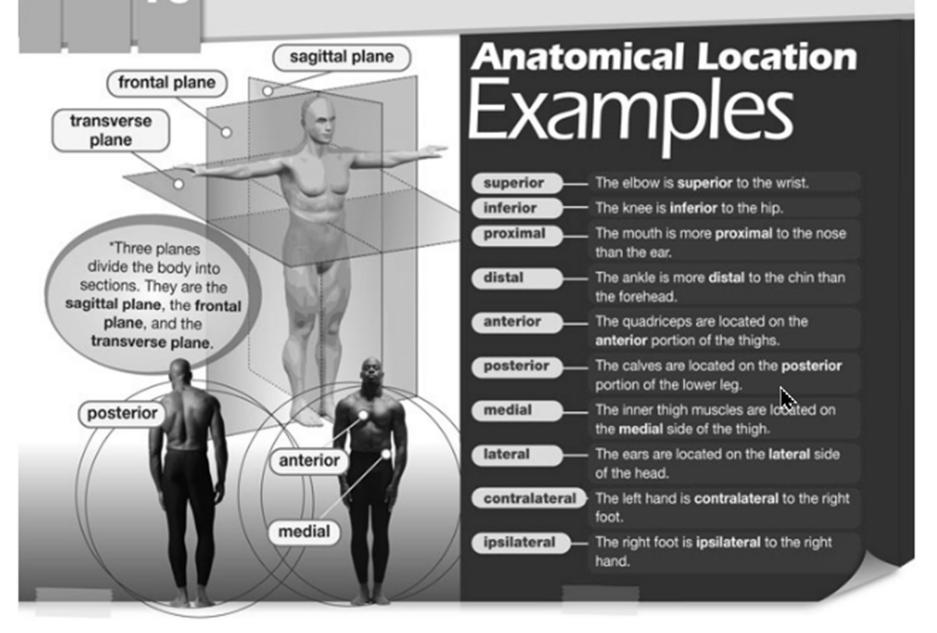
Why is it important to know anatomic locations?

It is important for personal trainers to know anatomic locations as a part of biomechanics.

It helps when using the principles of biomechanics to assess clients' fitness levels.

What are some anatomic locations you are familiar with?

E.g. with anterior (front) and posterior (back). Those are fairly common terms that people hear. Also, superior (above) and inferior (below) are also generally used.

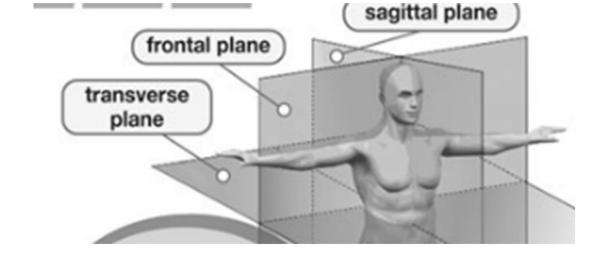




The three planes that divide the body into sections are

the s_____ plane, the t____ plane, and the f____ plane.

They are set at right angles to divide the body at the center.



The three planes that divide the body into sections are the **sagittal** plane, the **transverse** plane, and the **frontal** plane.

They are set at right angles to divide the body at the center.

Mark the following statements as True or False

The hip is superior to the thigh.

True

A knee is more proximal to an ankle than a toe.

True

Calves are located on the anterior of the lower leg.

False

Listen to a conversation between two physical therapists. Mark the following statements as *True* or *False*.

- 1 The woman was gone because she was sick.
- 2 The woman saw the patient for previous injuries.
- 3 The man treated the patient for pulled muscles.



Listen to a conversation between two students. Mark the following statements as *True* or *False*.

1 The woman was gone because she was sick.

FALSE

.. because she was on a vacation

2 The woman saw the patient for previous injuries. TRUE

3 The man treated the patient for pulled muscles. TRUE

Listen again and complete the conversation



PT 1: Thanks for seeing my patients while I was 1)			
PT 2: You're welcome.			
PT 1: Is there anything I 2) about?			
PT 2: Well, Peter Anderson 3) his leg while playing soccer.			
PT 1: Which part?			
PT 2: He said he had pain in the 4) of his right thigh, as well as medial thigh pain.			
PT 1: I told him it was too soon for him to get back on 5)			
PT 2: I treated him for a 6) and a pulled groin.			

PT 1: Thanks for seeing my patients while I was **1) on vacation**

PT 2: You're welcome.

PT 1: Is there anything I **2) need to know** about?

PT 2: Well, Peter Anderson 3) re-injured his leg while playing soccer.

PT 1: Which part?

PT 2: He said he had pain in the **4) posterior** of his right thigh, as well as medial thigh pain.

PT 1: I told him it was too soon for him to get back on **5) the field**.

PT 2: I treated him for a 6) pulled hamstring and a pulled groin.

3 Complete the conversation below based on Task 7, with the phrases given. Then, take roles and act it out.

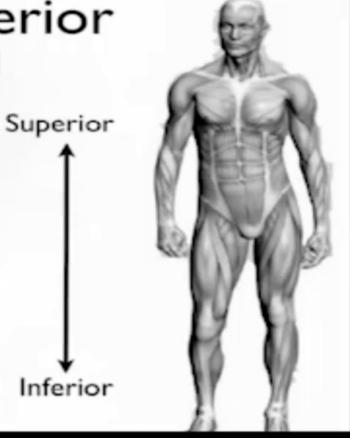
	USE LANGUAGE SUCH AS:		
	Is there anything?		
	He had pain in I told him		
	Student A: You are a physical therapist. Talk to Student B about:		
	anything you need to know about an injury sustained by one of your patients		
	• the location of the injury		
	Student B: You are a physical therapist. Talk to Student A about his or her		
	patient.		
	I told him two weeks ago that he needed to wait a month before getting back on th	e field.	
	I really appreciate you seeing my patients while I was away. Which part? Is there anything I need to be aware of?		
A:			
B:	No problem.		
	•		
A:			
B:	B: Yes. Mike Clarks played soccer and re-injured his leg.		
		_	
A:			
B: He had pain in his medial right thigh and the posterior of the same thigh.			
A:			

B: I treated him for a pulled hamstring and a pulled groin.

Superior / Inferior

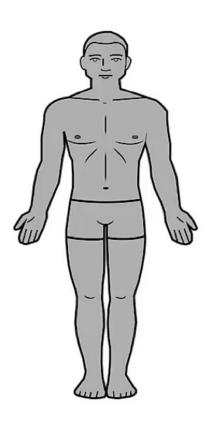
Cranial / Caudal

- Superior: Towards the head or upper part of a structure; above
- Inferior: Away from the head or lower part of a structure; below



- 1 What does 'superior' mean?
- 1. A towards the upper structure
- **2. B** away from the head
- 2 What does 'inferior' mean?
- 1. A towards the head
- 2. **B** towards the lower part
- **3** Which is superior: the lungs or the liver?
- 1. A the liver
- 2. **B** the lungs
- 4 Does anterior refer to the front or the back part of the body?
- 1. A the front part
- 2. **B** the back part
- 5 What do we call 'medial'?
- 1. A when you move towards the body midline
- 2. **B** when you move away from the body midline
- **6** The wrist bones in relation to the elbow are
- 1. A proximal
- 2. B distal

Anatomical Directional Terms



Let's Simplify.....

Medial vs Lateral

Superior vs Inferior

Anterior vs Posterior

Proximal vs Distal

Superficial vs Deep

Unilateral vs Bilateral

Ipsilateral vs Contralateral

Thank you for your attention!