PhySci 107 2022

Week 6 Lab Worksheet

Bones of the Upper Limb and Vertebral Column

Learning Outcomes

- Students should be able to describe the shoulder girdle including the joints that comprise
 it.
- Students should be able to identify vertebrae from the 4 vertebral regions and describe the movements allowed in each region.
- 1. What are the structures that make up the 'shoulder joint' (bones and bony landmarks)?

tracromial
end = lakial
end, flat
end, model
on model
(lat 15 flat)

3 bones	bony landmarks
Scapula	glenoid fossa, acromion process acromial end, sternal end
· humerus	

Sternoctationar joint: sternal end of but part of pertoral girdle

- acromio clavicular joint: acromion process of scapula & acromial end of clavicle
- · gienohumeral joint: head of humerus & gienoid fossa on scapula
- 2. Using your answer above, in which direction do you think dislocation of the shoulder joint would occur. Why?
 - · anterioriy be cause posteriorly, the acromion process restricts.
 - ocould also slip inferiorly or pull out laterally, but not as common be 10th of tendons there to hold it in place.
 - · glenohumeral joint is very shallow.

- 3. For each region of the vertebral column name ONE EASILY definable feature:
- (7) Cervical: only region w/ transverse foramen
 - bifurcated spinal process (bifid)
 - vertebral foramen is Shape. (this is where cord fits
- Thoracic: Only region w/ Costal fale is (dumifacet) articulates w/ ribs

 spinal (s) Lumbar:
 process
 -moose looking spinous process, short and blunt
 down loragest yest body (welch bearing)
 - largest vert. body (weight bearing)
 - large suplient art processes, present rotation (5) Sacral: snake/dragon

mobile

\$ 1 sup process fits The inf process of the above vert.

- 4. What bony structures of the vertebrae restrict their movement relative to each other?
 - · articular processes restrict
 - · cervical = less restriction, more movement allowed -base of head, so can rotate CI & CZ
 - · lumbour = limited lateral flexion, no rotation, can flex lex tend. art facts allow only frex lextend
 - othoracic: flex & extend, lateral flex texted, timited

-spinous process & articular processes

has costal facets be only that region interacts