SESSION #12

JOINTS

aka: where: function:

Classifications

Joints

classified by:

classified by:

STRUCTURAL

1. Fibrous
   tissue type: joint cavity: moveable:

2. Cartilaginous
   united by: joint cavity: moveable:
3. Synovial Joints

- Bones separated by articular discs
- Which joints:
  - 6 features

Other features:
1. Fatty pads
2. Articular discs
3. Bags of lubricating fluid that act as lubricating "
4. 
5. Tendon sheaths

Fatty pads function:
Articular discs
aka: Improve?
Functions:

Bursae
Function:

Tendon sheaths
What are they?
Function:

Joint stability

role
Shallow surfaces
Less stable than

# & More ligaments

role
Function:
Joints most
important
↓
1. INJURIES
   due to compression & shear stress repaired with:

2. Sprains
   reinforcing _____ are stretched or torn
   partial tears repair _____
   because of _____

3. forced out of alignment

4. subluxation
   partial _____ of a joint

INJURIES common:
1. 2. 3. 4.

INFLAMMATORY & DEGENERATIVE:
1. 2. 3.
Bursitis
inflammation:
cause:

Tendonitis
inflammation:
cause:

Arthritis
symptoms:
  acute forms
  chronic forms

Arthritis

osteoarthritis
aka
common?
cell degenerative & irreversible
" " arthritis
cause:
  women
  men by age 85
Rheumatoid Arthritis

acute or chronic

cause:

inflammatory

carises?

women men

Gouty Arthritis
deposition of:

men women

What joint?

MUSCULAR SYSTEM

MUSCLE TISSUE

tissue:

fibers:

voluntary contract rapidly, tire easy

only found:

striated involuntary contraction:

found:

ex.

not striated

involuntary

w/o NS stimulation
Characteristics

Functions
1. All locomotion & manipulation
2. Maintain posture &
3. Generate heat as they

Skeletal Muscle
Skeletal muscle is an organ made up of different tissues

3 features
1. 
2. 
3. 

Nerve & blood supply
Each muscle has how is the oxygen being used & waste is removed
Connective tissue sheaths
- Connective tissue covers skeletal muscle & each fiber
- Support & reinforce while muscle sheaths external → internal external
- Dense irregular CT surrounds external muscle largest
- Fibrous CT surrounding grap of muscle fibers
- Fine areolar CT surrounds each fiber

Attachments
- Muscles span joints & attach to bones
- Attach in 2 places
  - Insertion
  - Origin
- Attach direct/indirect
  - Direct
    - AKA epimysium, fused to of bone
    - Or perichondrium of
indirect connective tissue wrapping extend beyond muscle as ropelike or sheetlike aponeurosis

muscle fiber anatomy

fiber:

describe a muscle fiber:

organelles

sarcolemma:
sarcoplasm:
glycosomes:
myoglobin:

modified organelles

myofibrils:

describe

features

striations
stripes formed from repeating series of bands along each myofibril
A bands:
  H zone
  M line
  I bands
  Z disc (line)

sarcomere
  smallest contractile unit
  aka
  individual sarcomeres line from
  end to end

label sarcomere

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