

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

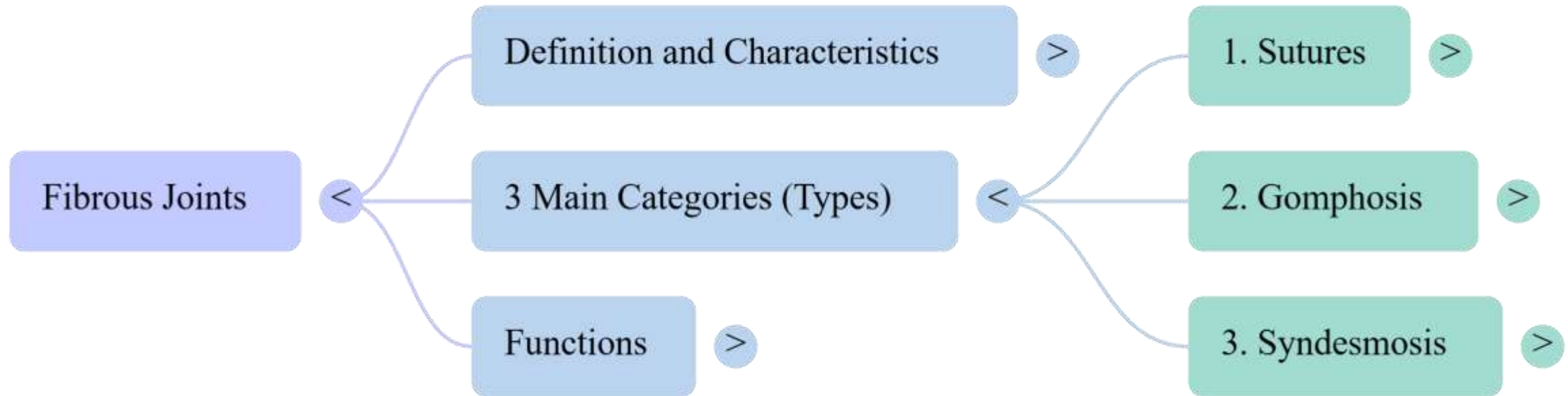
Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi. Coimbatore -641035

COURSE NAME : HUMAN ANATOMY & PHYSIOLOGY (BP301 T)

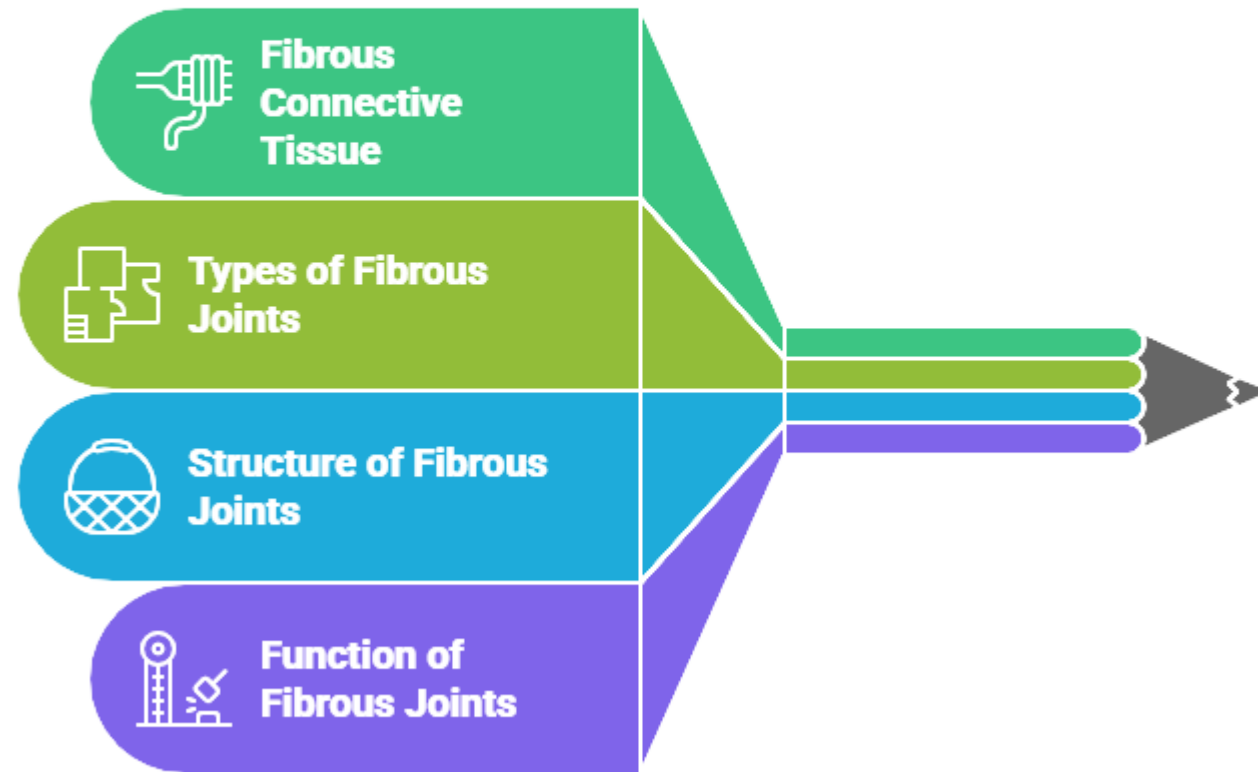
YEAR : I SEM/I YEAR

TOPIC : FIBROUS JOINT

MIND MAP

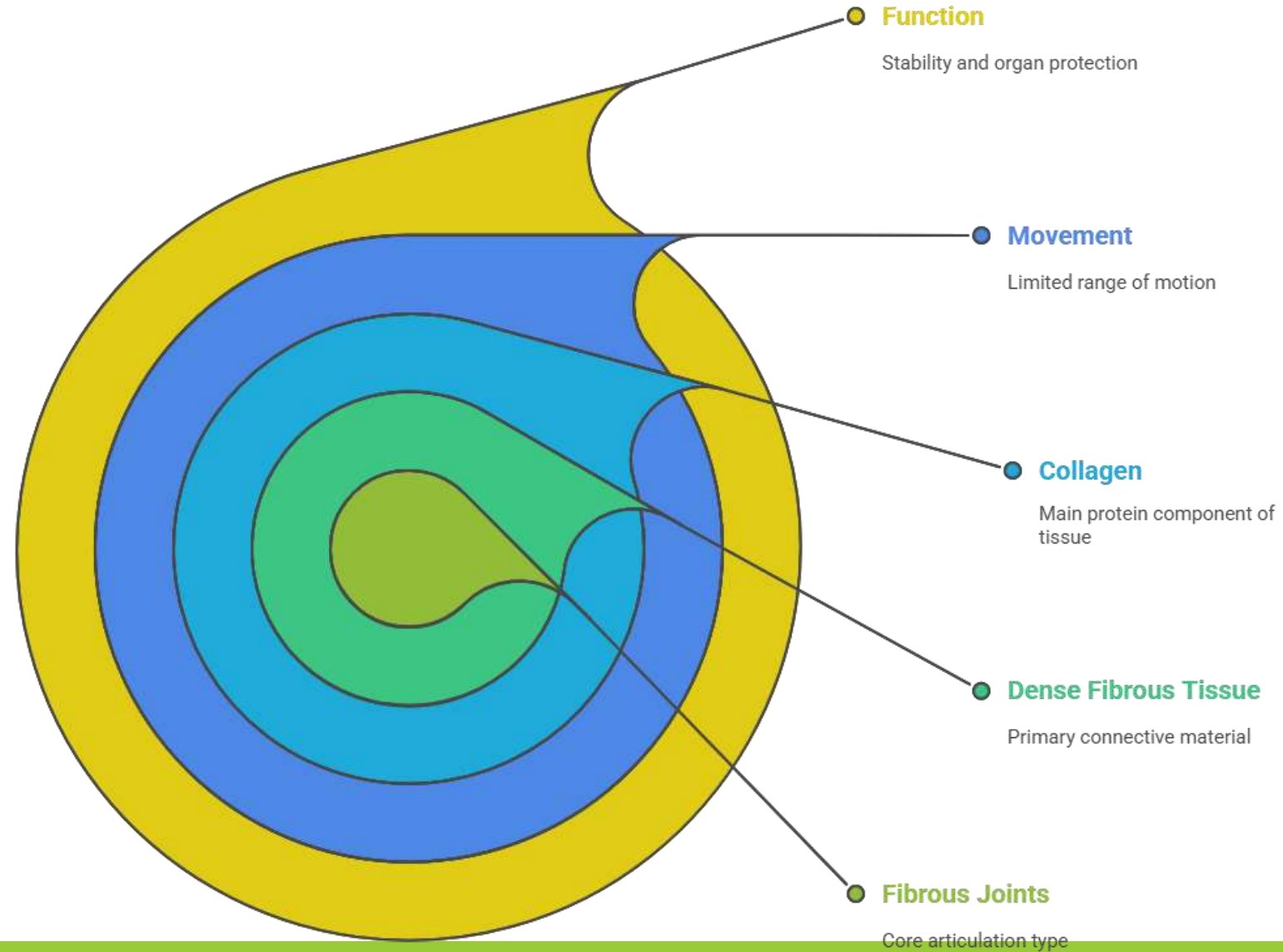


Understanding Fibrous Joints

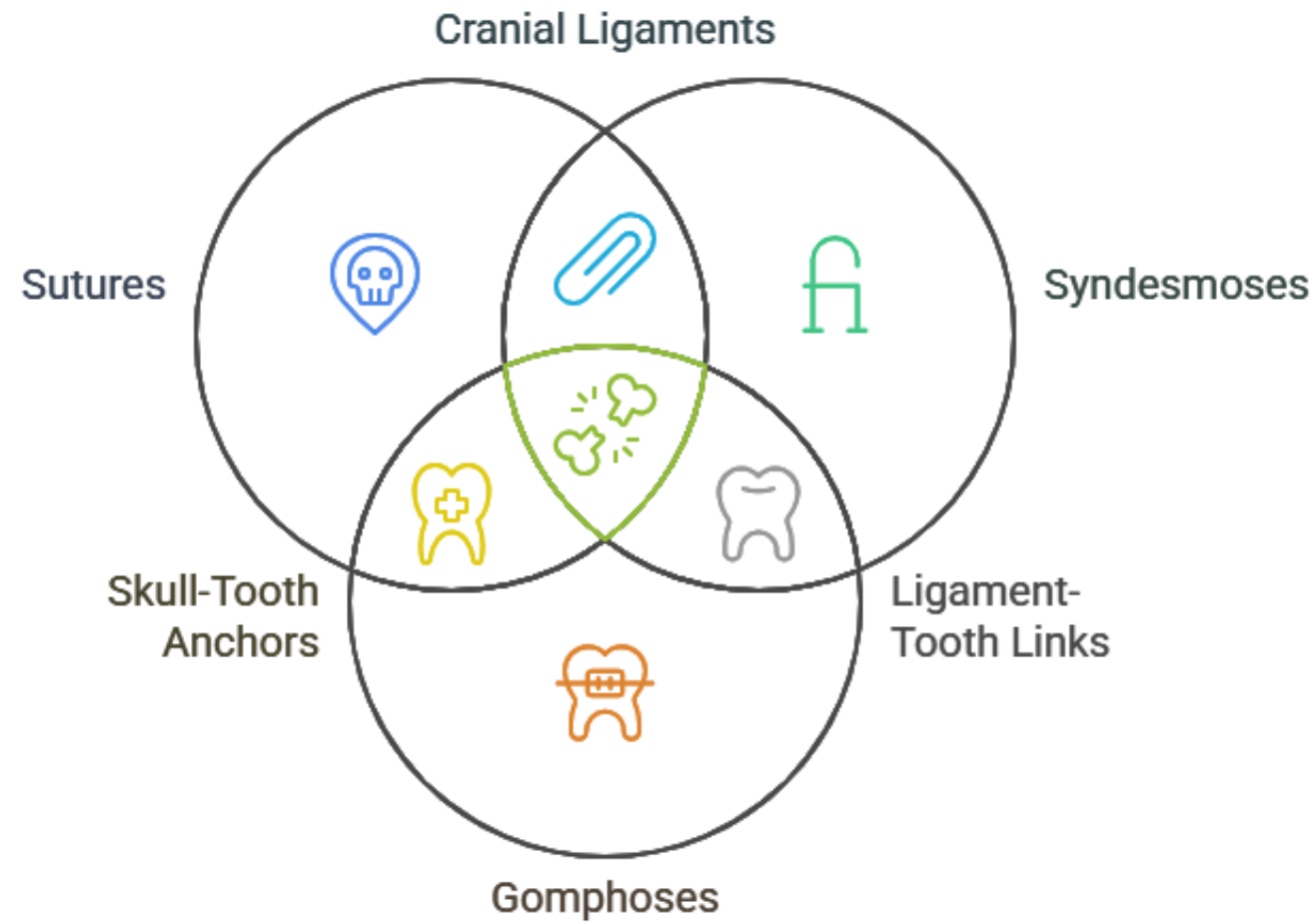


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Fibrous Joint Structure and Function



Comparing Fibrous Joint Types



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Types of Fibrous Joints

Sutures

Found exclusively in the skull, these joints are tightly interlocked.



Gomphoses

Specialized joints that anchor teeth to their sockets.



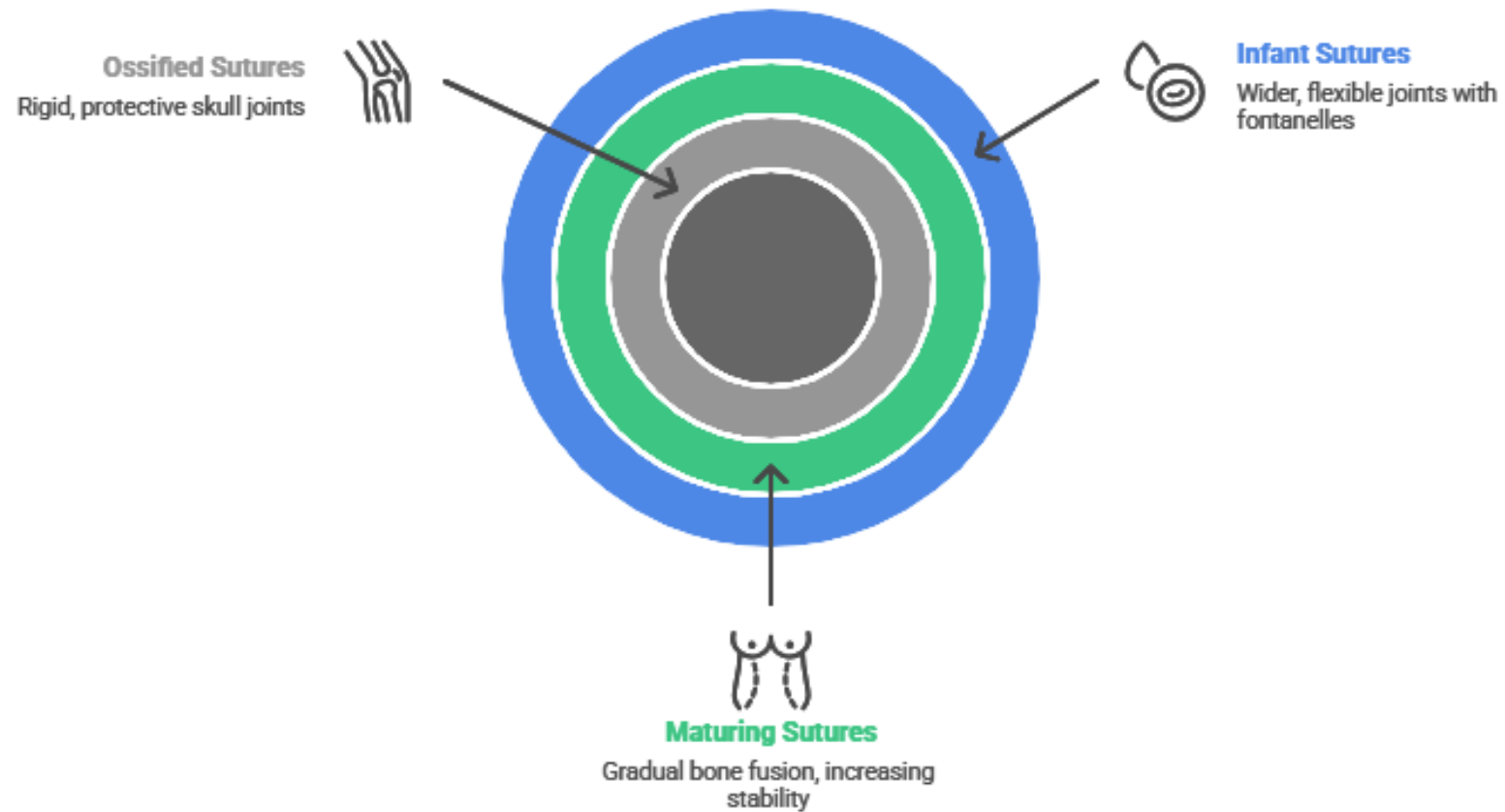
Syndesmoses

Connected by ligaments, these joints allow for slight movement.



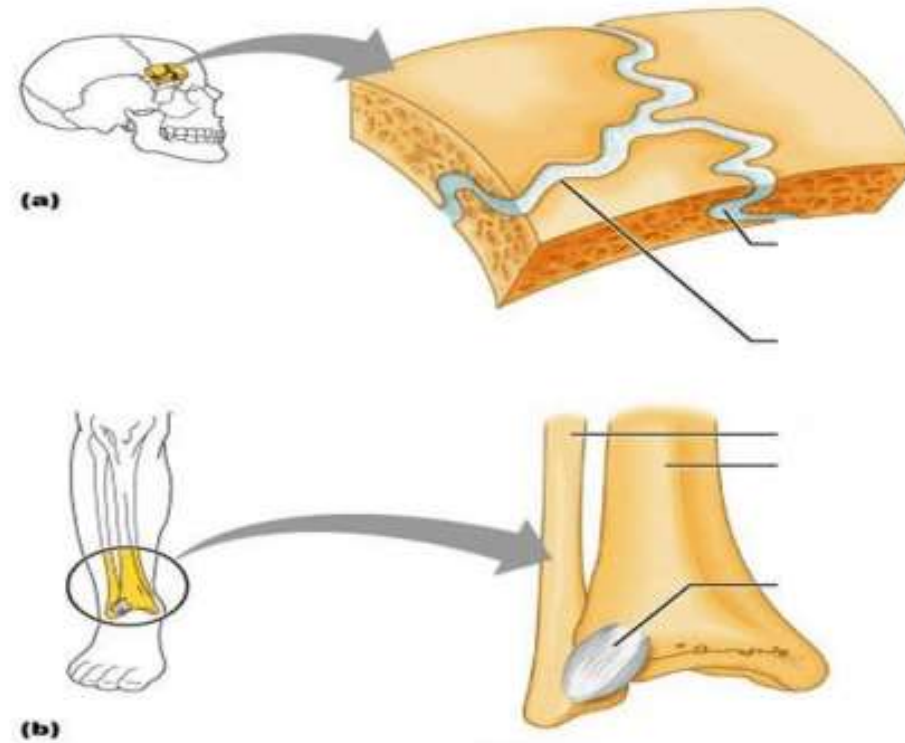
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Skull Suture Ossification



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FIBROUS JOINT



EXAMPLES OF FIBROUS JOINT

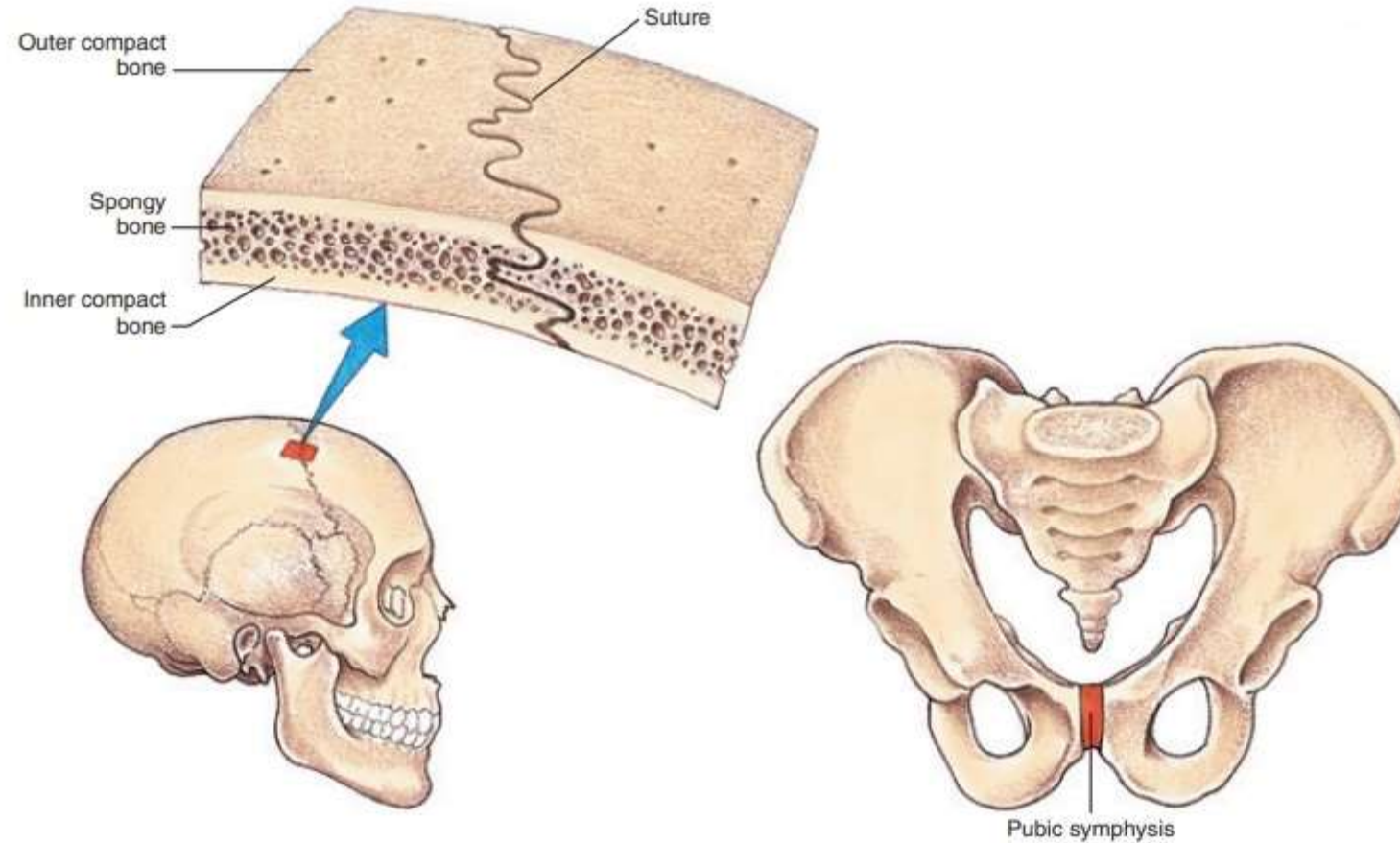
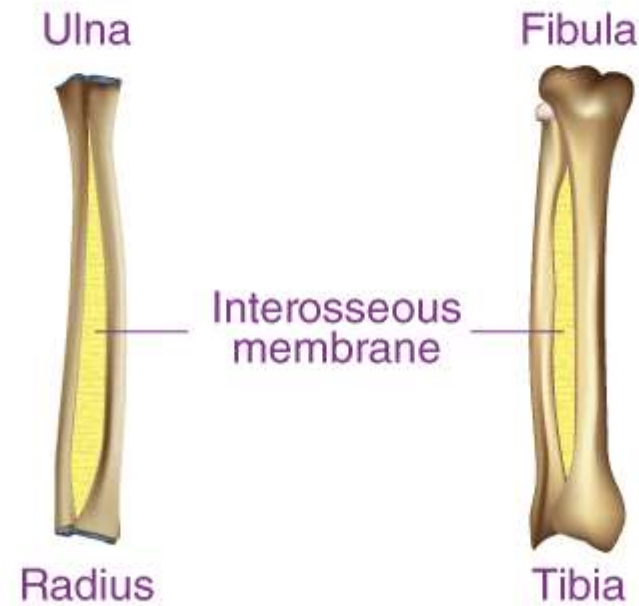
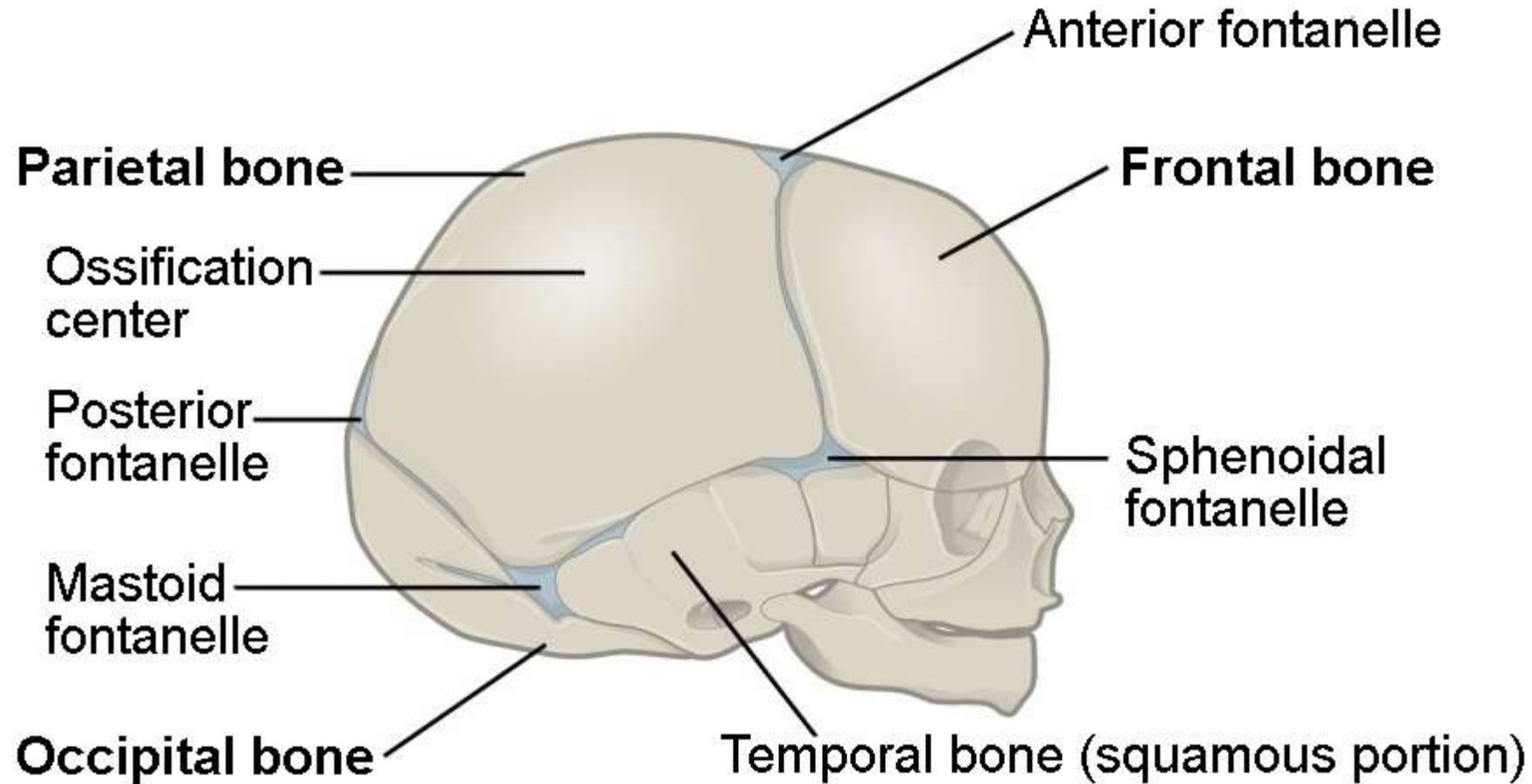


FIGURE 8-1 Examples of fibrous and cartilaginous joints.

UPPER AND LOWER EXTREMITY

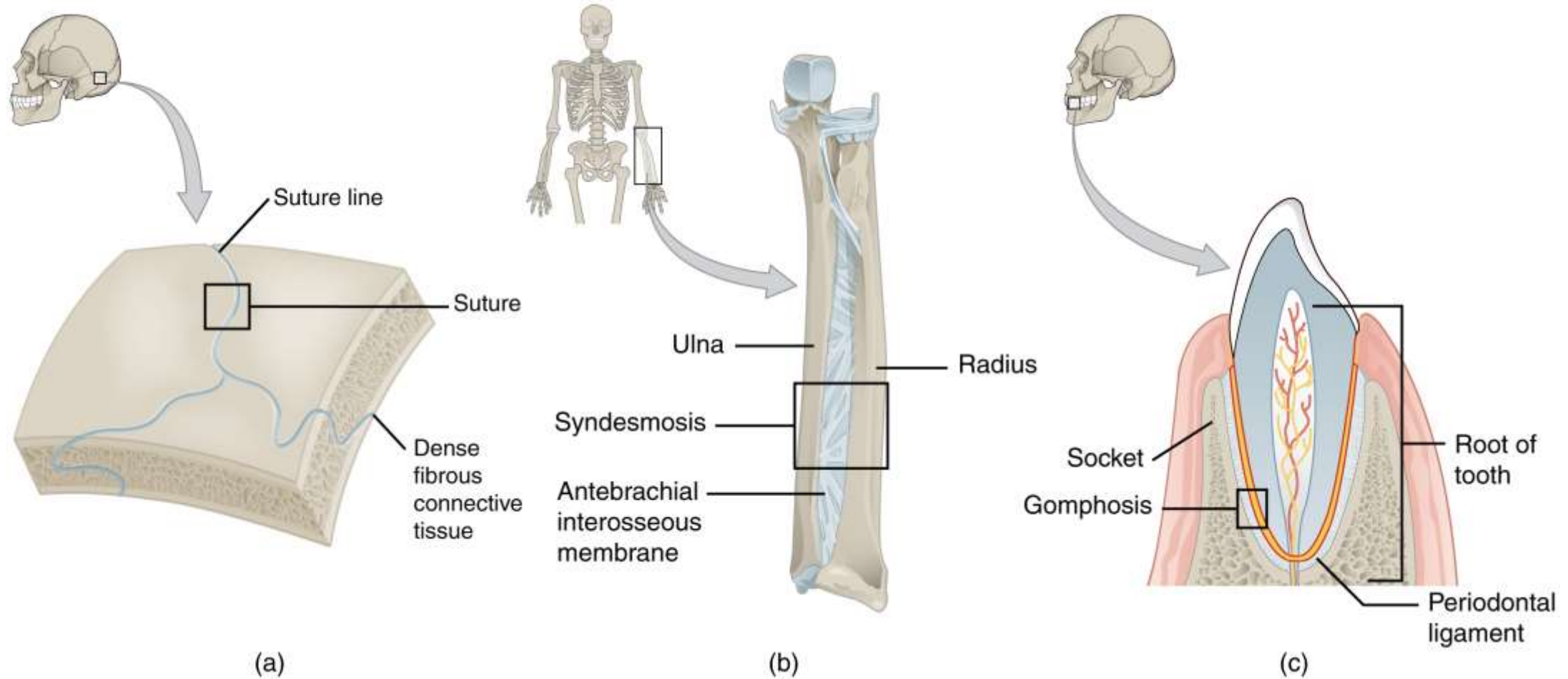


SKULL JOINT LATERAL SIDE

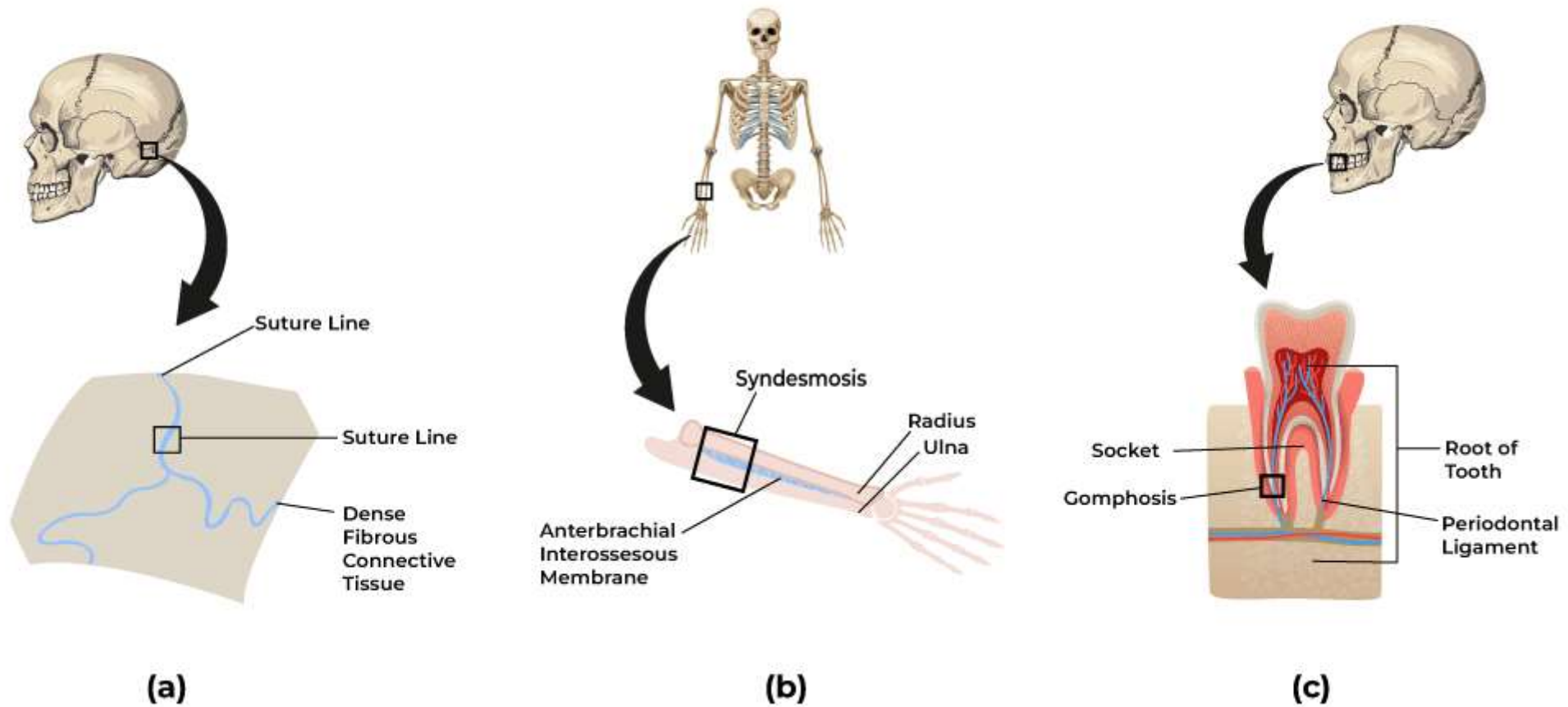


Lateral view

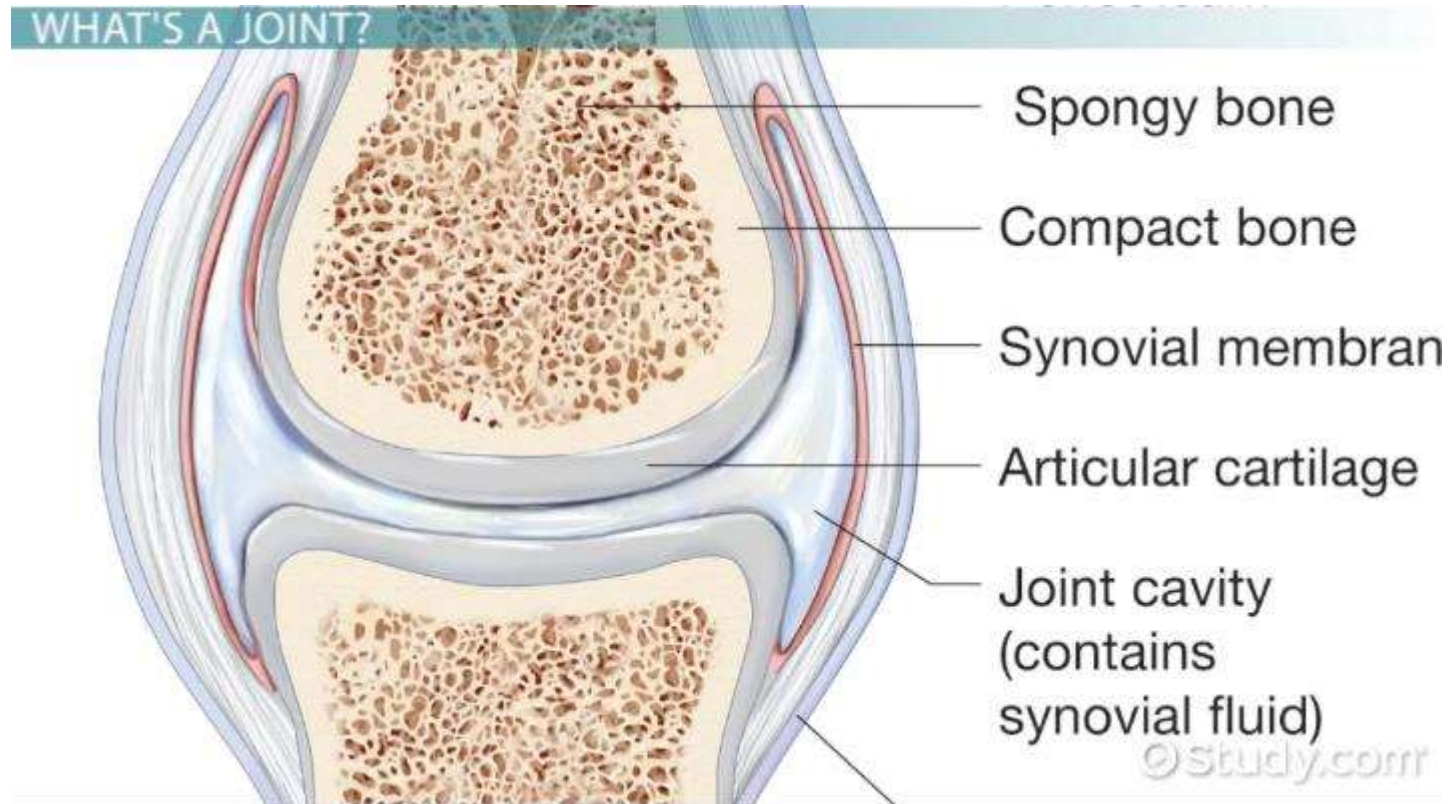
UPPER EXTREMITY AND LOWER EXTREMITY JOINT



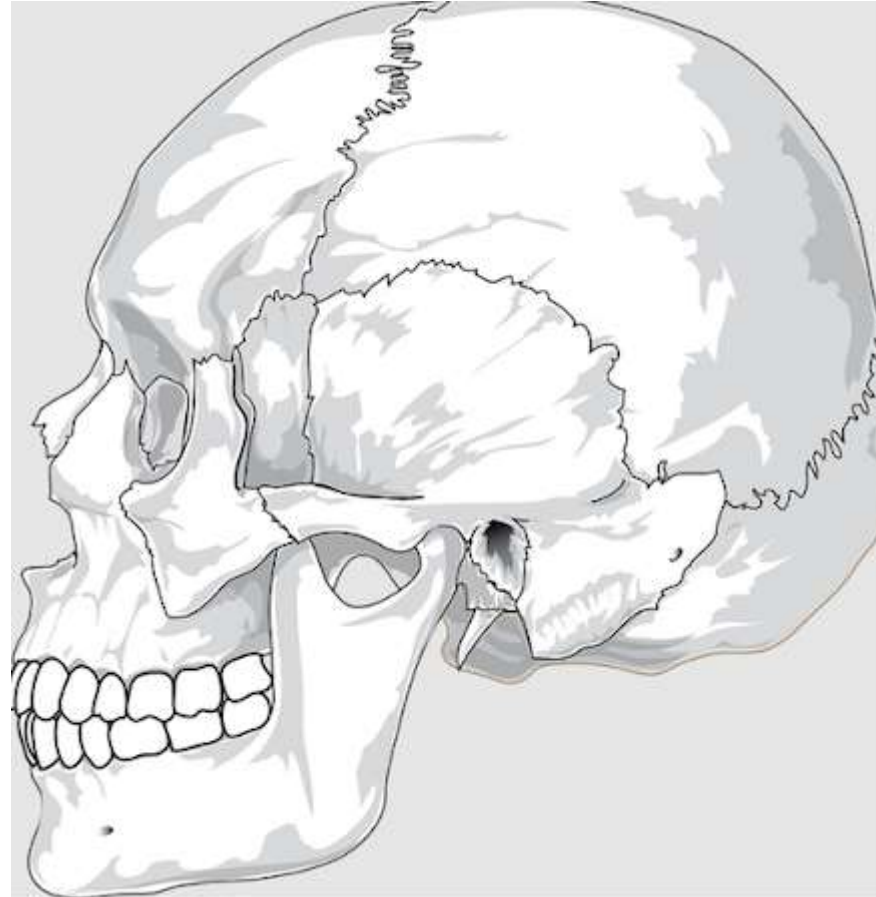
Fibrous Joint



HOW BONE AND BONE CONNECTS?



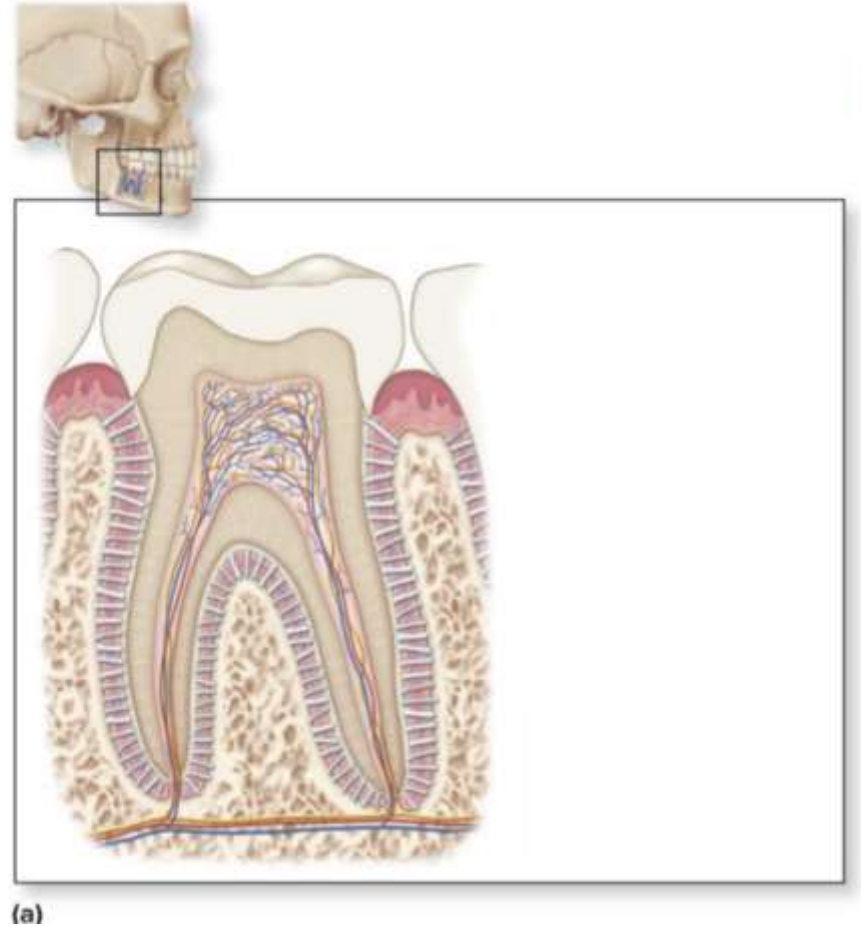
SKULL JOINT





CLASS ASSESSMENTS

IDENTIFY THE TYPE OF JOINT?

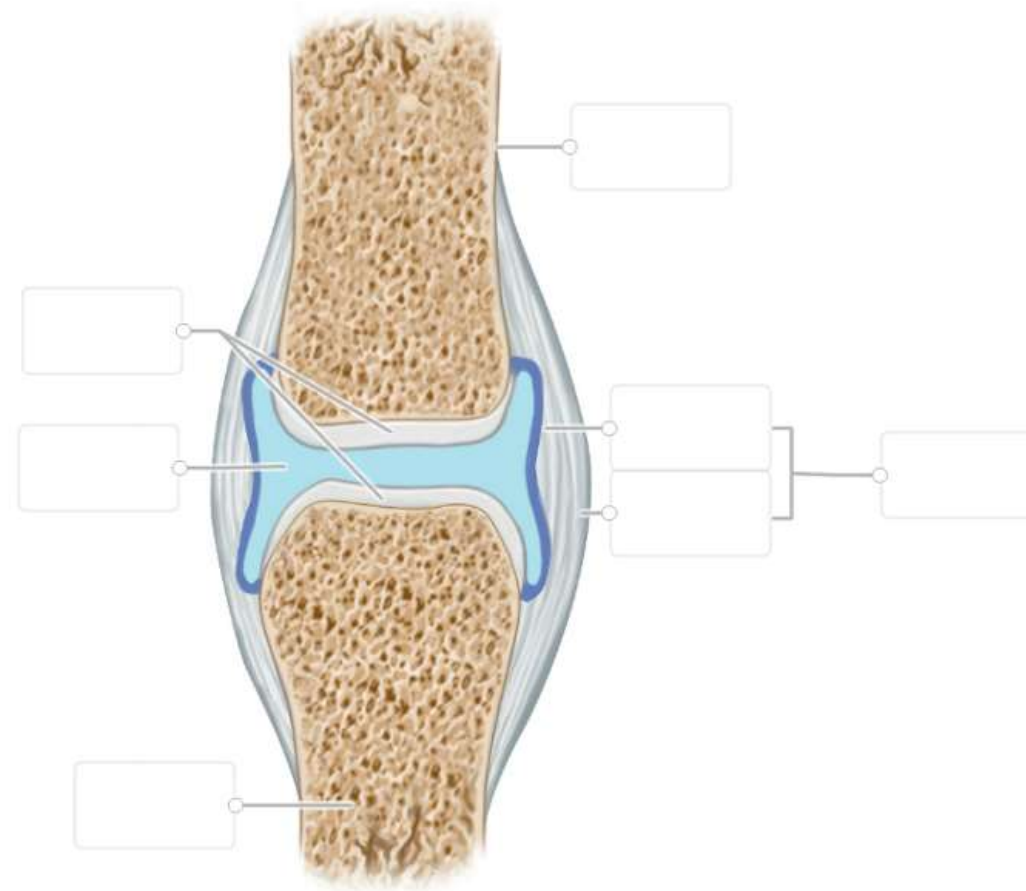




CLASS ASSESSMENTS

Click and drag the labels of the structures of the general synovial joint to their correct locations.

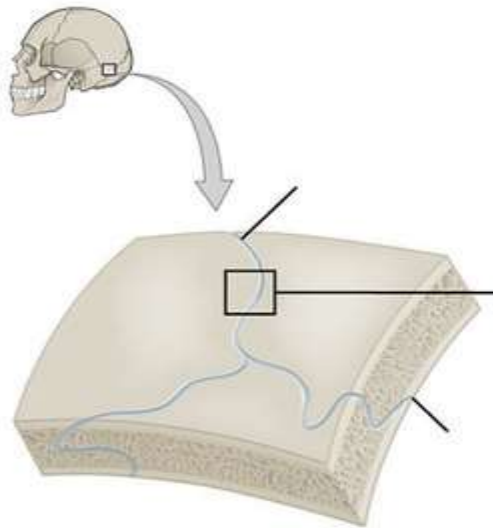
- Bone
- Fibrous capsule
- Joint (articular) capsule
- Joint cavity filled with synovial fluid
- Articular cartilage
- Periosteum
- Synovial membrane



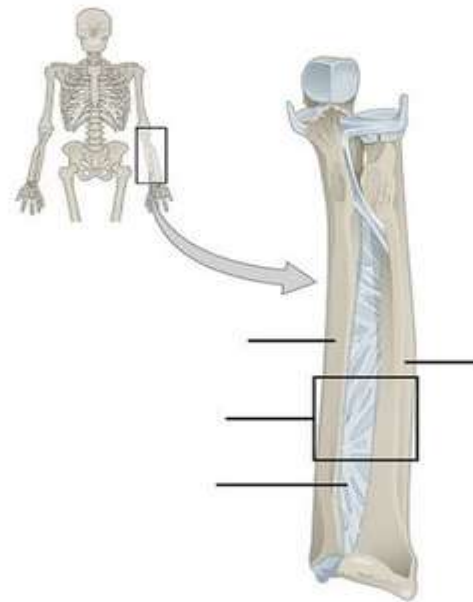


CLASS ASSESSMENTS

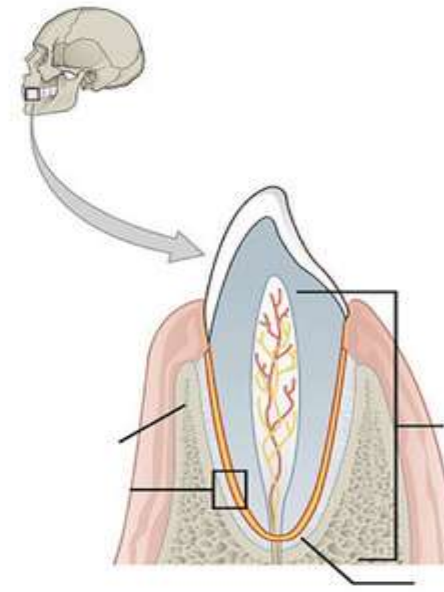
IDENTIFY THE TYPE OF JOINT?



(a)



(b)

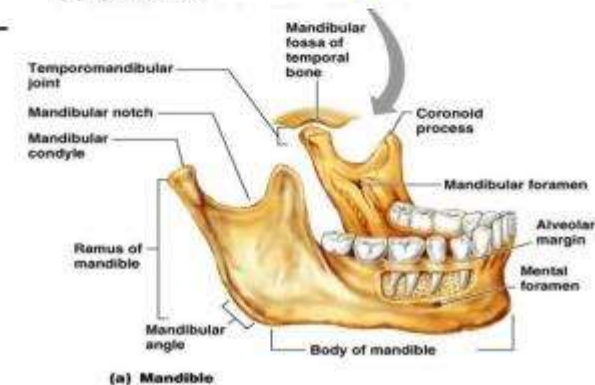
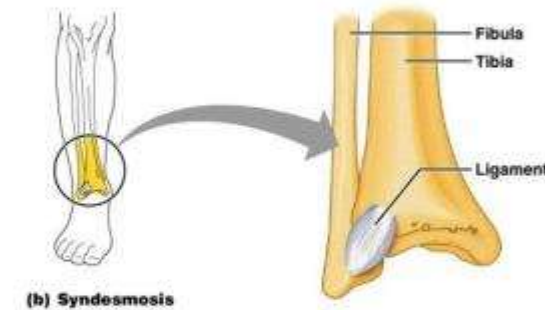
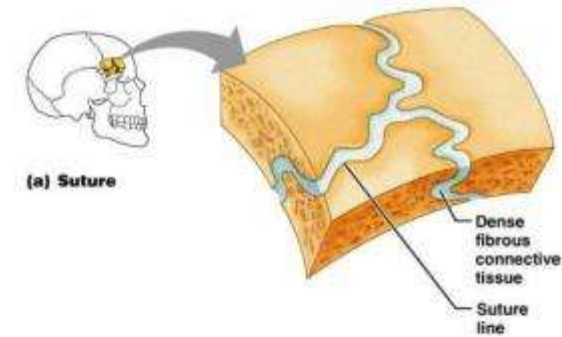


(c)

SUMMARY

Fibrous Joints

- **Sutures**
 - Only b/w skull bones
 - Bind, but allow growth
 - As an adult CT ossifies = **synostoses**
- **Syndesmoses**
 - Longer than sutures
 - Length of ligament determines mov't
 - E.g interosseous membrane and tibia-fibula distal ends
- **Gomphoses**
 - Tooth in alveolar socket
 - E.g periodontal ligament



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REFERENCE

- ✓ Essentials of Medical Physiology, K. Sembulingam & P. Sembulingam (Jaypee Brothers Medical Publishers)
- ✓ A Textbook of Human Anatomy and Physiology-I, SIA Publishers
- ✓ Human Anatomy & Physiology Gerard J. Tortora & Bryan H. Derrickson (Wiley)
- ✓ Ross and Wilson anatomy and physiology in health and illness, Anne Waugh & Allison Grant.

