

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

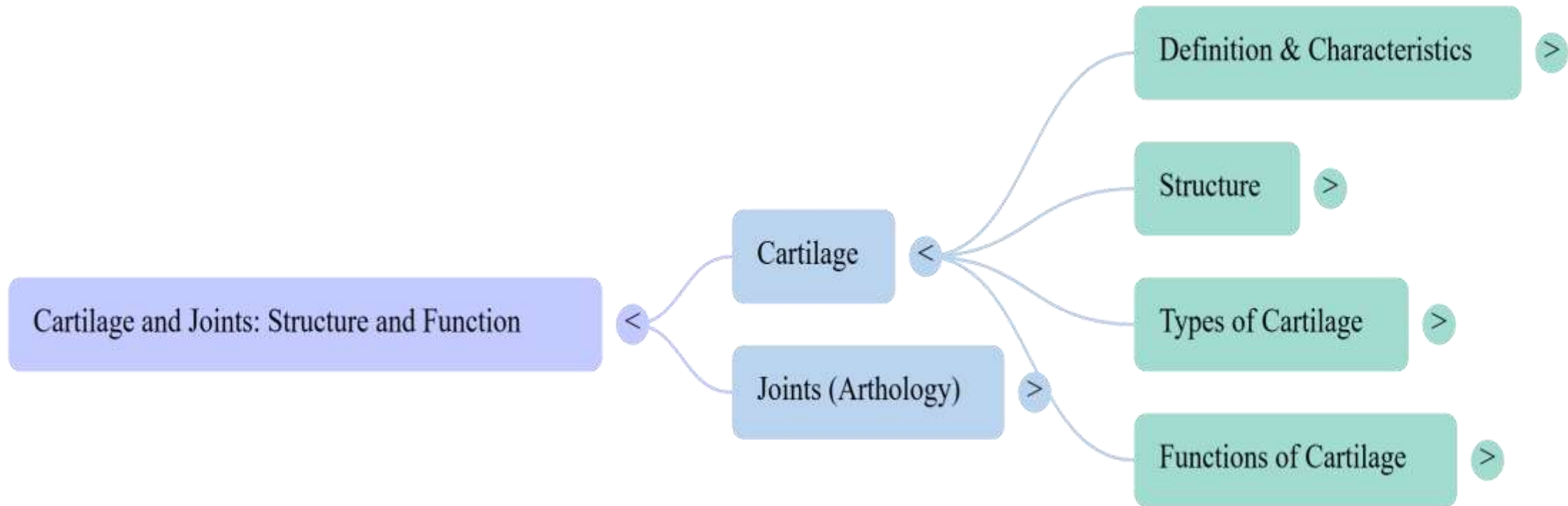
Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi. Coimbatore -641035

COURSE NAME : HUMAN ANATOMY & PHYSIOLOGY (BP301 T)

YEAR : I SEM/I YEAR

TOPIC : CARTILAGE JOINT

MIND MAP



The Role of Cartilaginous Joints

Stability

Provides structural support and prevents excessive movement

Shock Absorption

Cushions impact and reduces stress on bones

Limited Flexibility

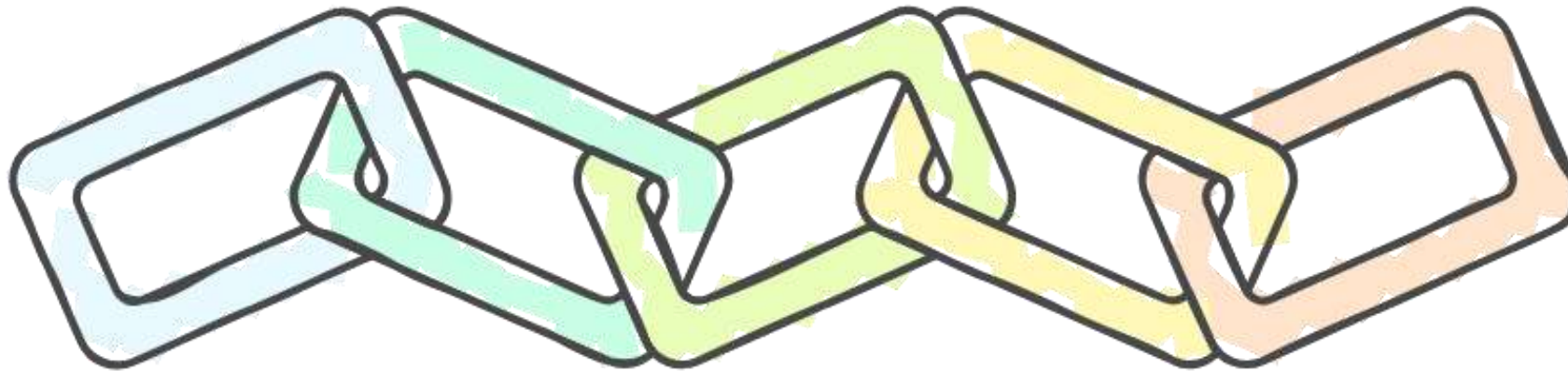
Allows controlled movement while maintaining integrity

Growth

Facilitates bone development and elongation

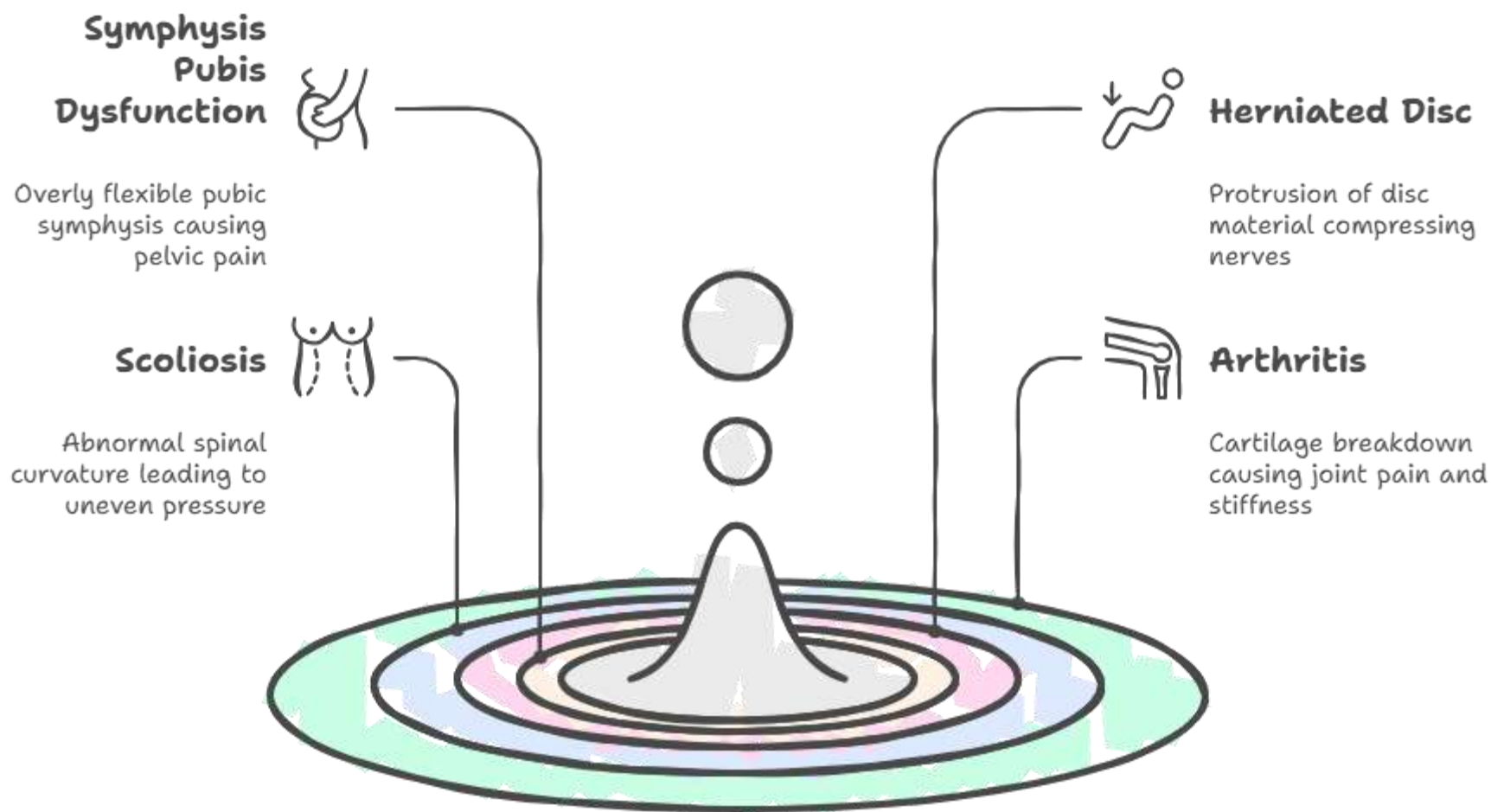
Support

Supports body weight and posture



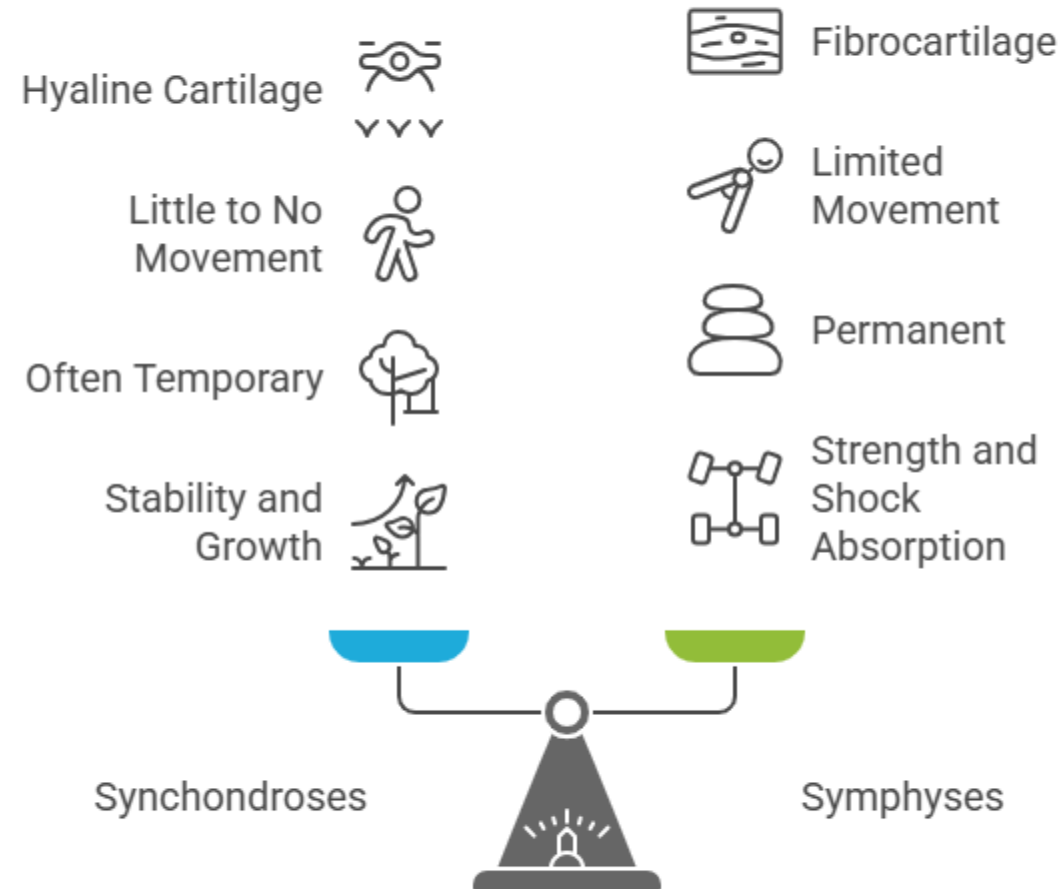
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Cartilaginous Joint Conditions

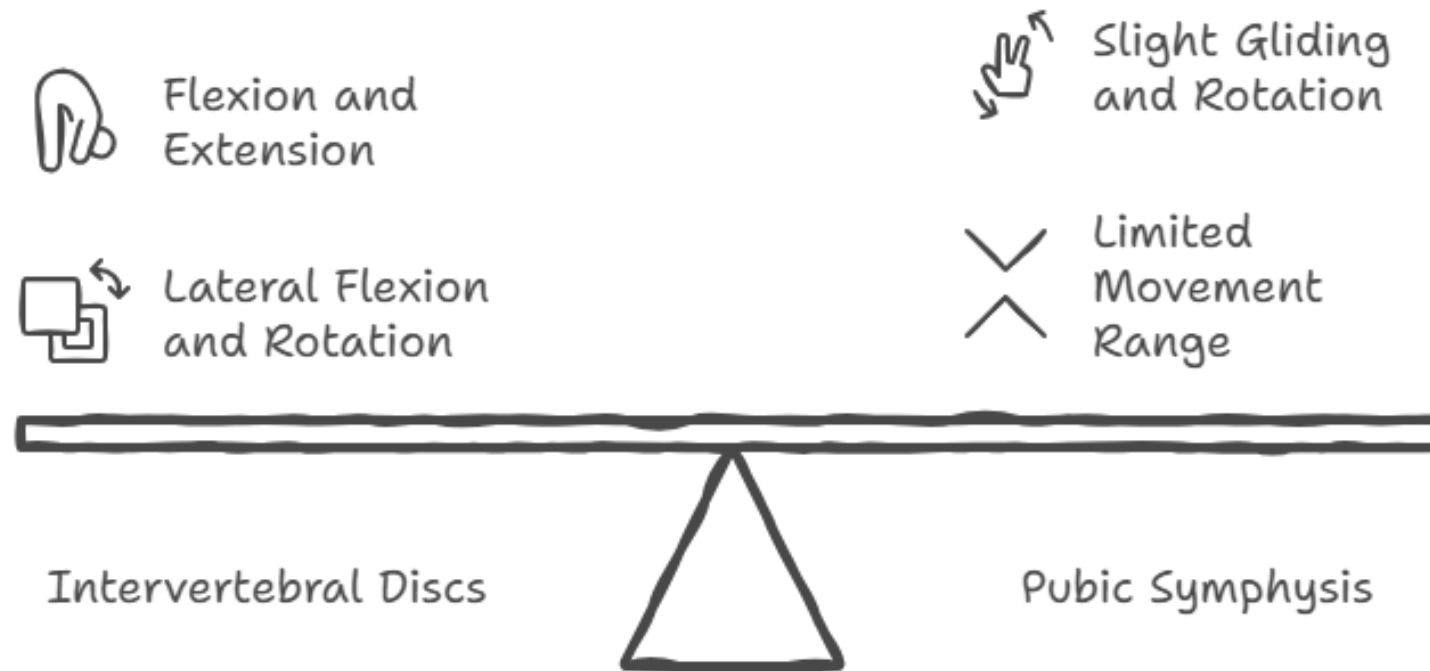


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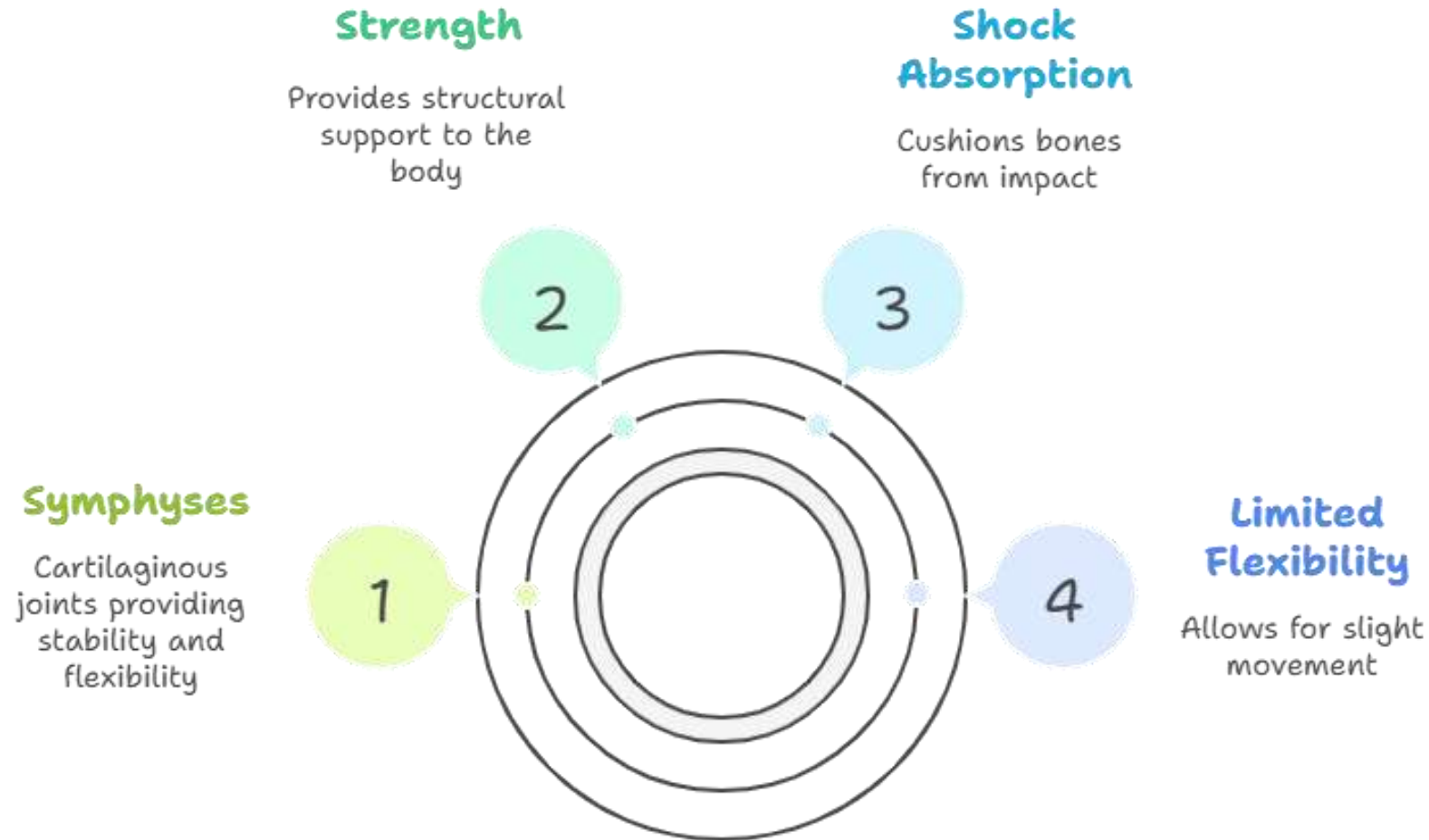
Comparing Cartilaginous Joint Types



Compare movement types and ranges in symphyses.



Functions of Symphyses



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Which type of cartilage is most important for symphysis function?



Fibrocartilage

Provides strength and resilience

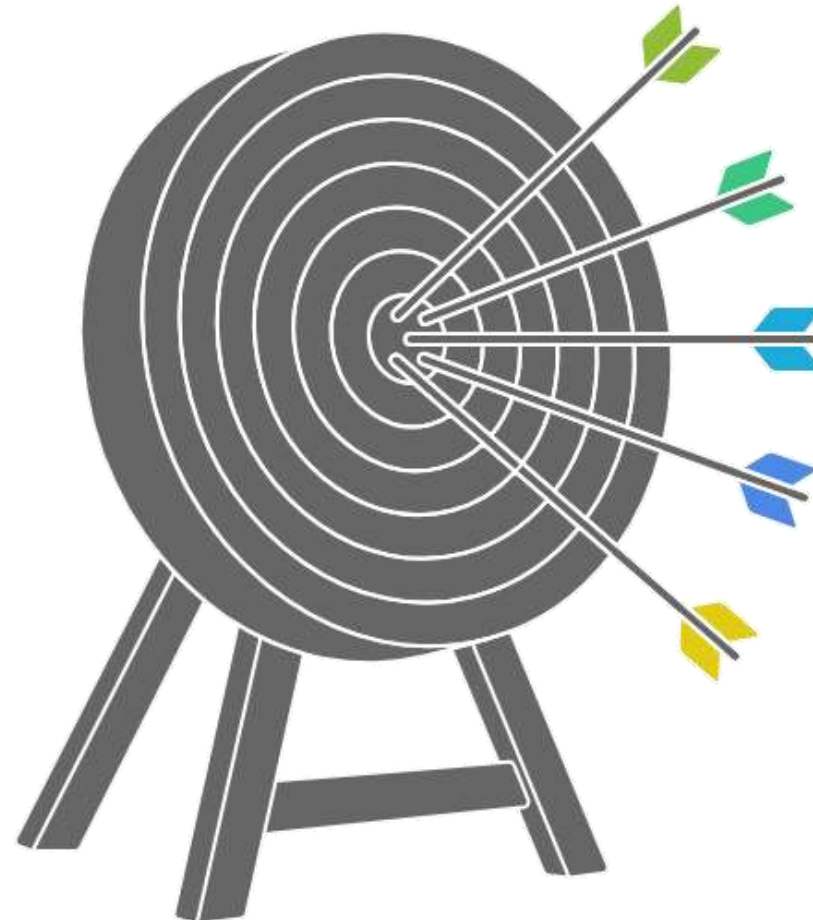


Hyaline Cartilage

Offers smooth articulation

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Synchondroses Joint Structure and Function



Hyaline Cartilage

Core material connecting bones



Bone Connection

Physical link between bones



Stability

Provides structural support



Flexibility

Allows limited movement

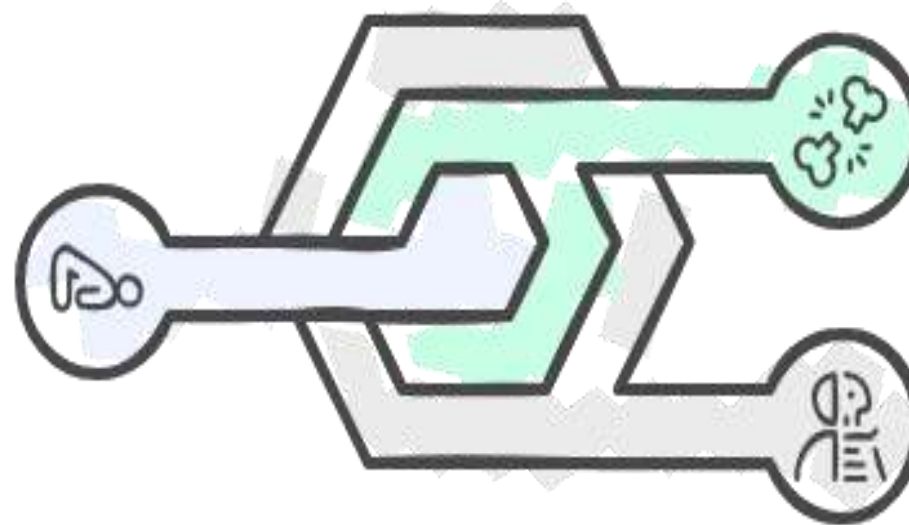


Growth

Facilitates bone elongation

Symphyses Joint Structure

Symphyses
Joints connected by
fibrocartilage



Fibrocartilage

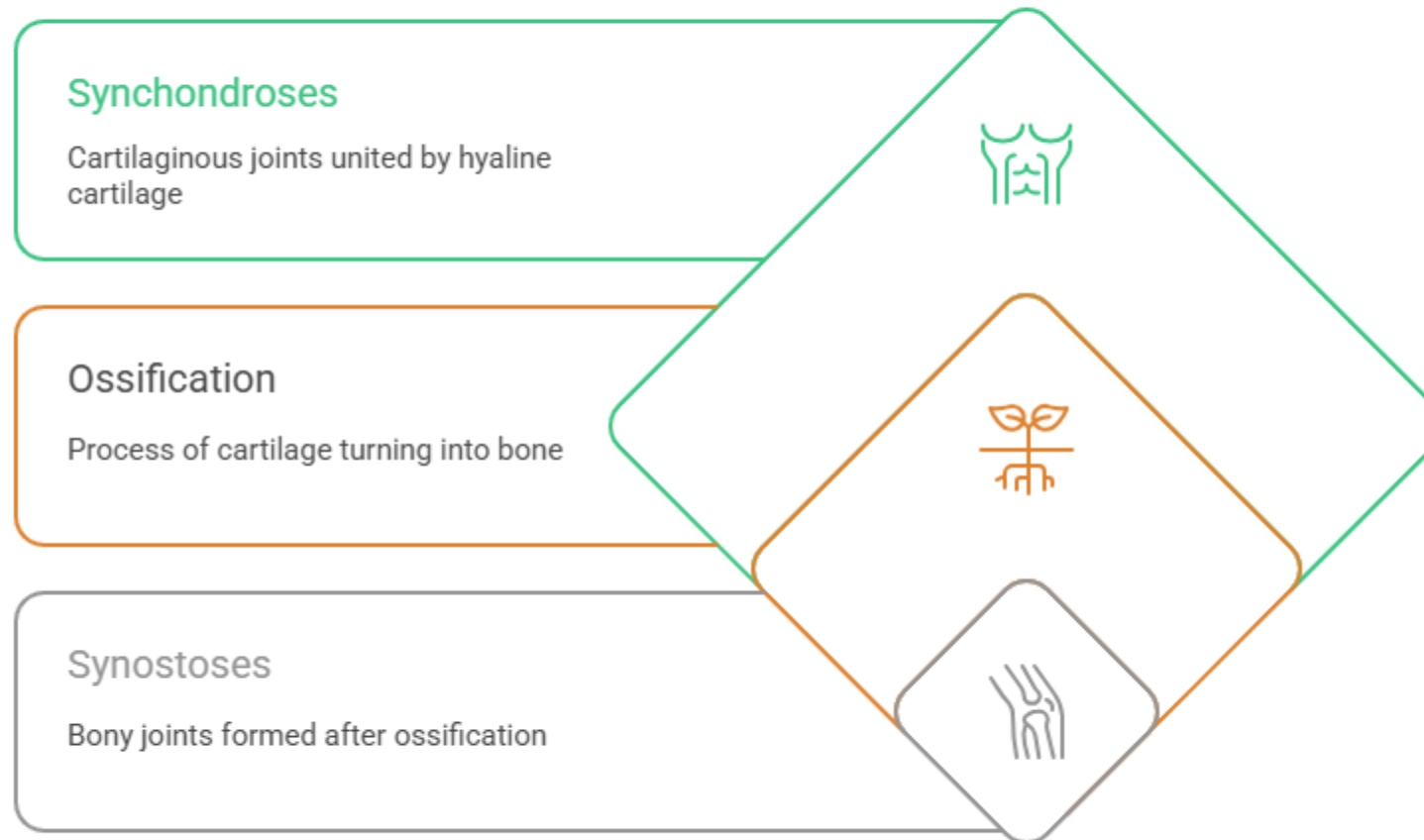
Strong, flexible tissue
connecting bones

Bones

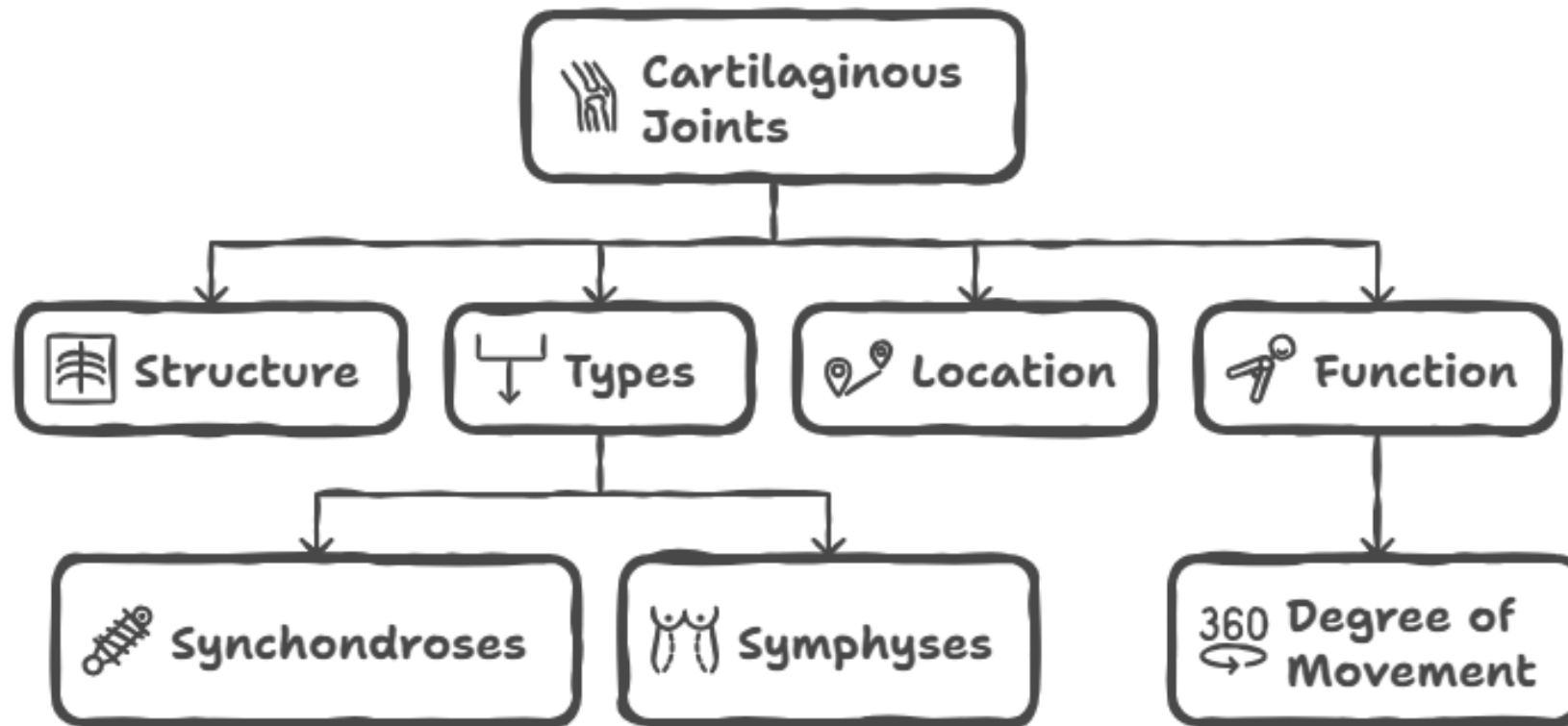
Skeletal structures forming
the joint

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Synchondroses Ossification Process

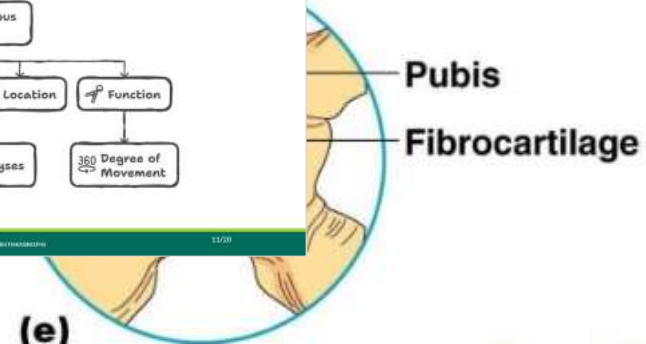
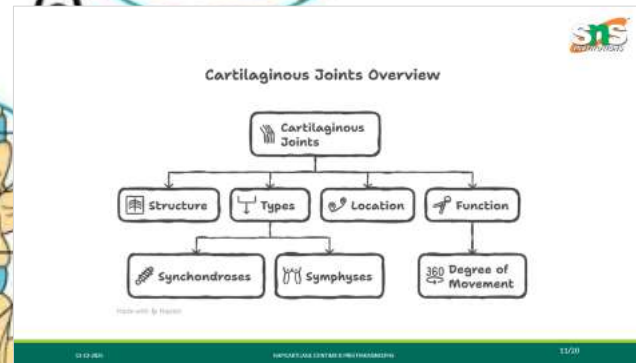
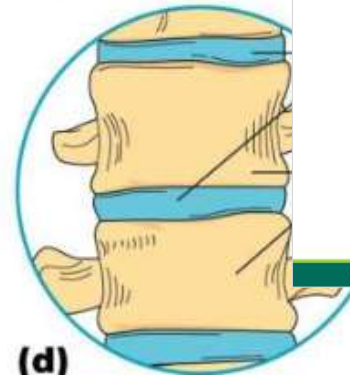
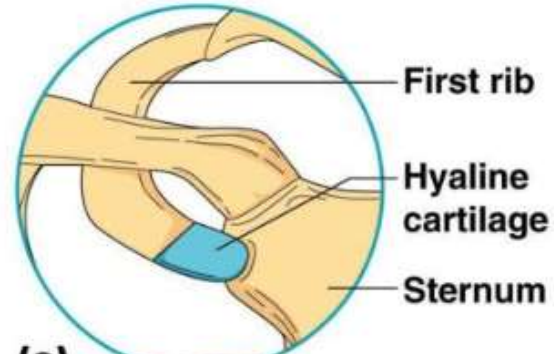


Cartilaginous Joints Overview

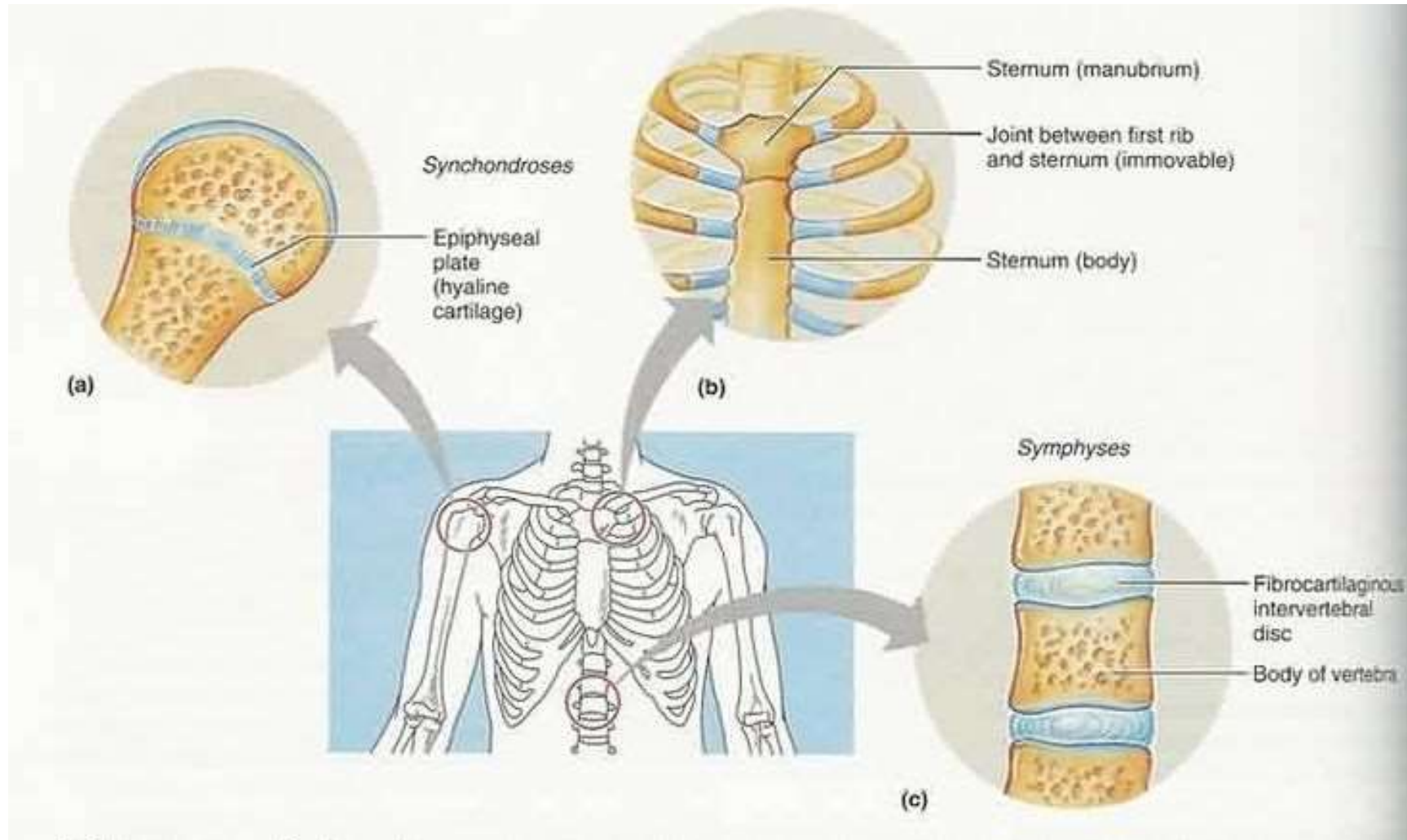


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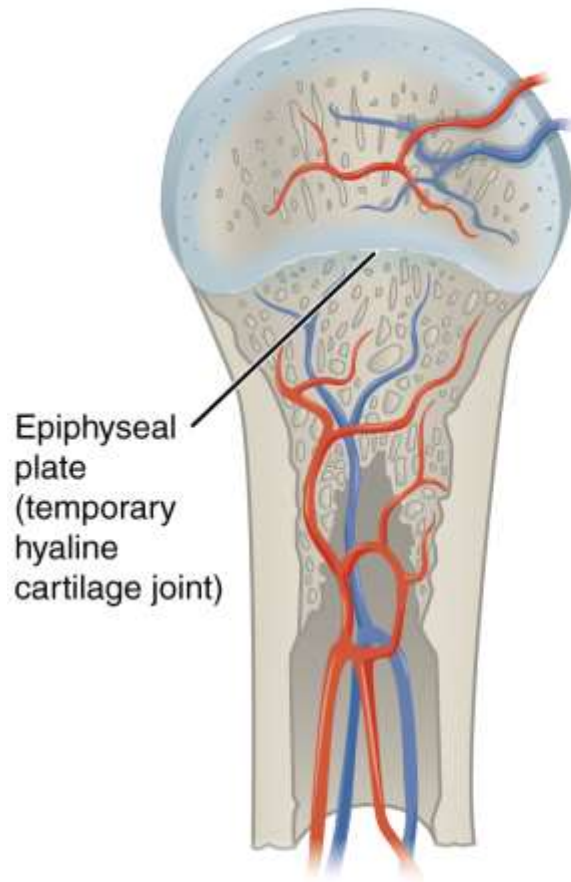
Cartilaginous Joints



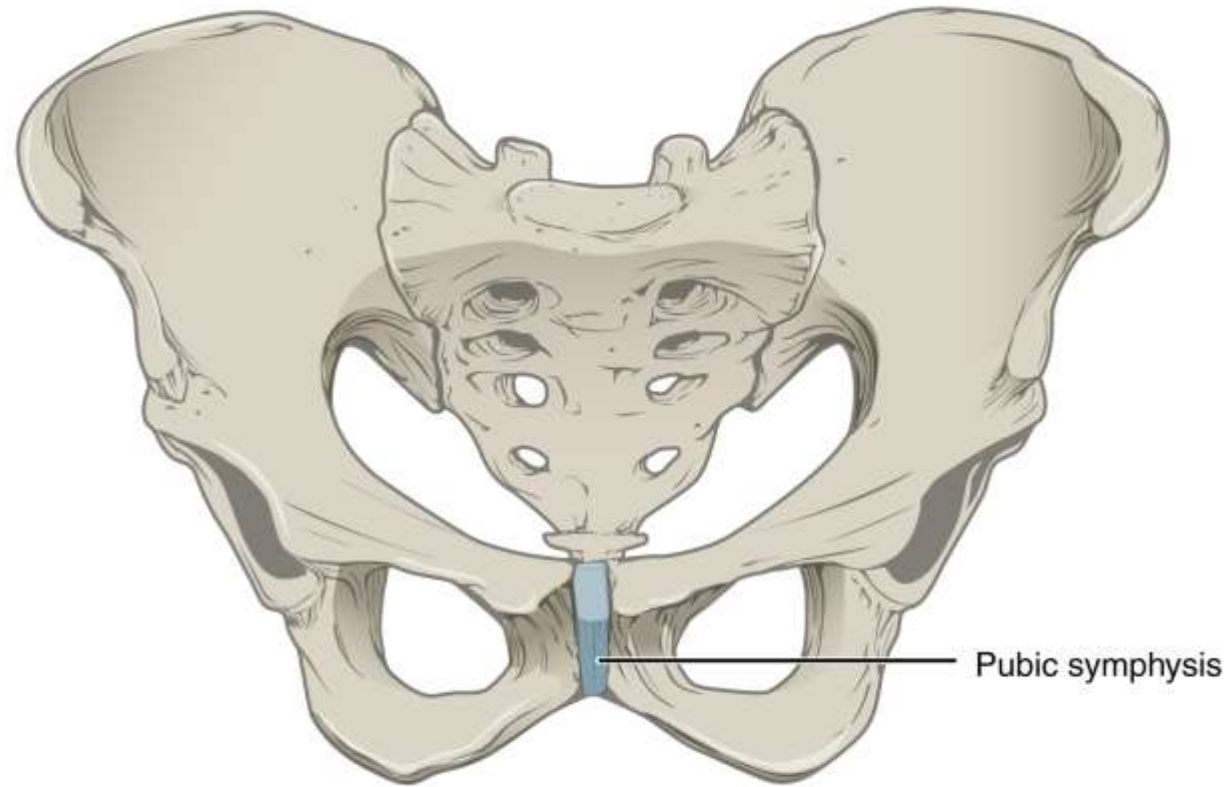
TYPES OF CARTILAGE JOINT



ANATOMY OF CARTILAGE JOINT



(a)

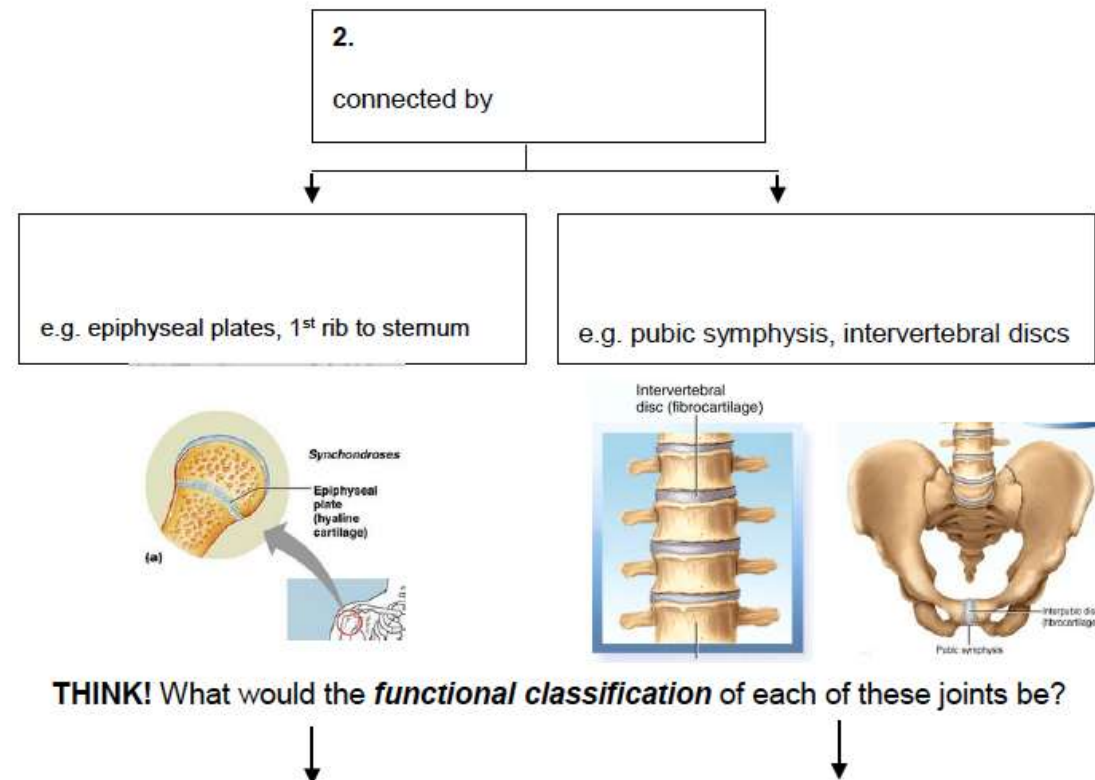


(b)



CLASS ASSESSMENTS

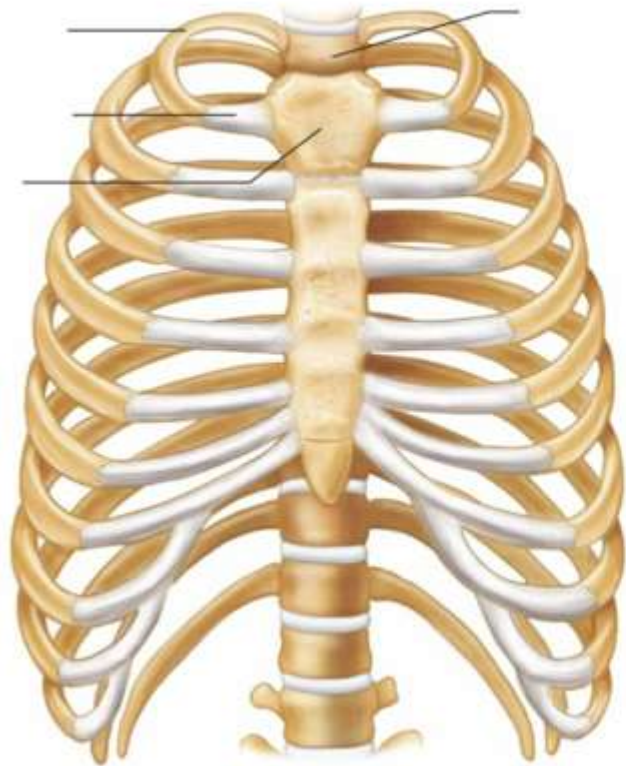
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CLASS ASSESSMENTS

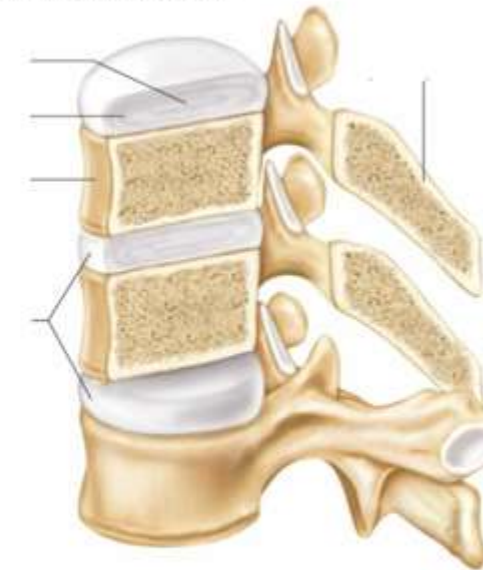
IDENTIFY THE JOINTS?



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(a)

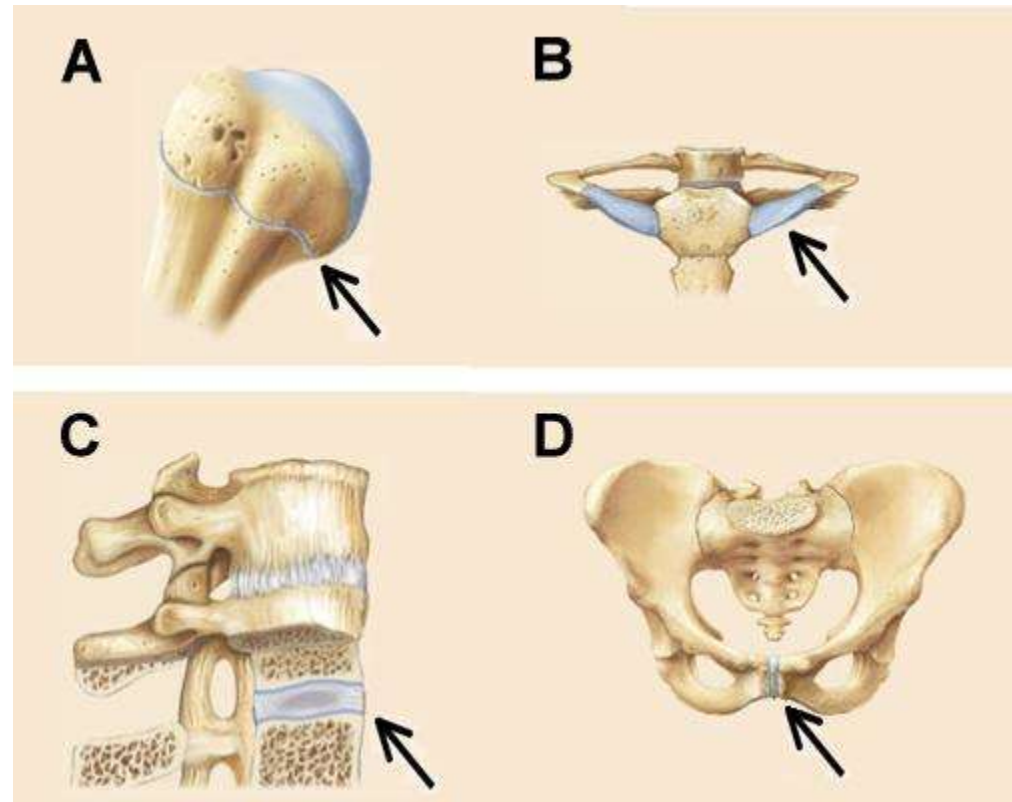


(b)



CLASS ASSESSMENTS

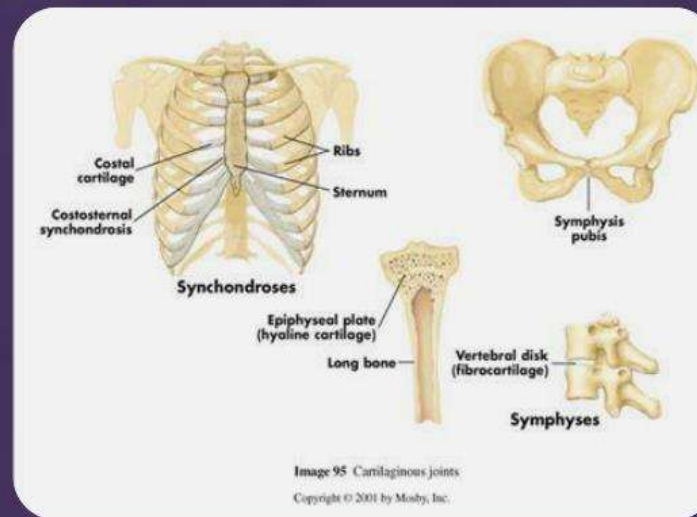
IDENTIFY THE JOINTS?



SUMMARY

CARTILAGINOUS JOINTS:

- ✧ Two or more bones connected by **hyaline** or **fibrocartilage**.
- ✧ This type of joint provides limited motion



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.

