TOPIC: STRUCTURAL CLASS: CARTILAGINOUS JOINTS

• Cartilaginous Joints: bones bound by ______.

■ Like fibrous joints, they are structurally ______ BUT have _____ movement (always ⑤ or ௳).

_____ types of cartilaginous joints:

1) Synchondroses

2) Symphyses.

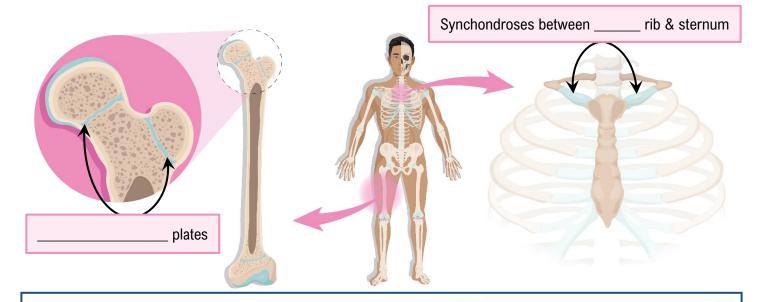
1) Synchondrosis (Pleural: Synchondroses)

Syncho	ndroses: cartil	laginous joints where	bones are bound by	/	cartilage (chon	<i>dro</i> = cartilage).
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■ Provides structural ______ BUT allows _____ movement (always ⑤).

■ Like sutures, eventually some synchondroses bones may ______ to become a "synostosis" (bony joint).

- Hyaline cartilage *can* _____ (be replaced by bone).



EXAMPLE: How are synchondroses similar to sutures?

- a) They are both made of rigid hyaline cartilage.
- b) Epiphyseal plates and sutures can both ossify over time to form synostoses.
- c) The costosternal synchondrosis and sutures allow a small amount of movement.
- d) They are both fibrous joints.

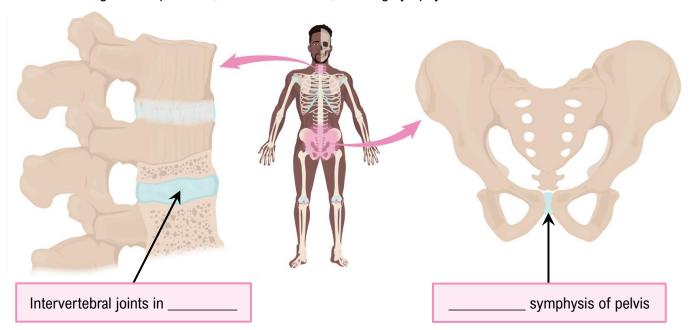
PRACTICE: Which of the following statements is true?

- a) Synchondroses can be either synarthroses or amphiarthroses.
- b) Synchondroses are more functionally similar to syndesmoses than gomphoses.
- c) Synchondroses can be found in both the axial and appendicular skeleton.
- d) All statements are true.

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2) Symphysis (Pleural: Symphyses)

- **Symphyses:** cartilaginous joints in body's ____idline where bones are bound by ____ibrocartilage.
 - Designed for *strength* & *flexibility* and allows _____ little movement (always ♠).
 - Fibrocartilage is compressible, resilient & flexible, allowing symphyses to act as _____ absorbers.



EXAMPLE: Which type of joint would be best suited to withstanding a great deal of mechanical stress while also being compressible in order to absorb shock?

a) Synchondroses.

c) Symphyses.

b) Syndesmoses.

d) Gomphoses.

PRACTICE: Which joint type is primarily responsible for allowing growth in long bones during childhood?

a) Syndesmosis

c) Symphysis.

b) Synchondrosis

d) Gomphosis.

PRACTICE: Which of the following describes a cartilaginous joint?

- a) The amphiarthrosis between the radius and ulna, allowing for forearm rotation.
- b) The freely movable shoulder joint, which contains articular and hyaline cartilage.
- c) The synarthrosis between bones of the skull.
- d) The amphiarthrosis between adjacent vertebrae in the spine.