TMJ & Muscles of Mastication

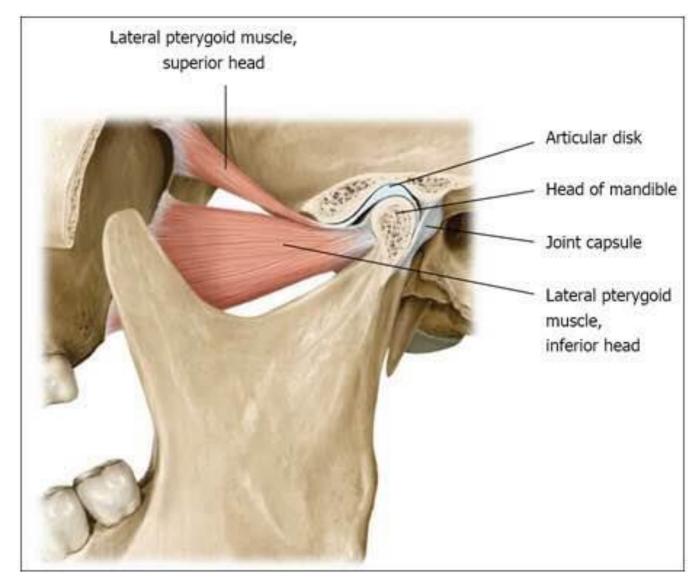
Dr Maan Al-Abbasi

PhD (UK)

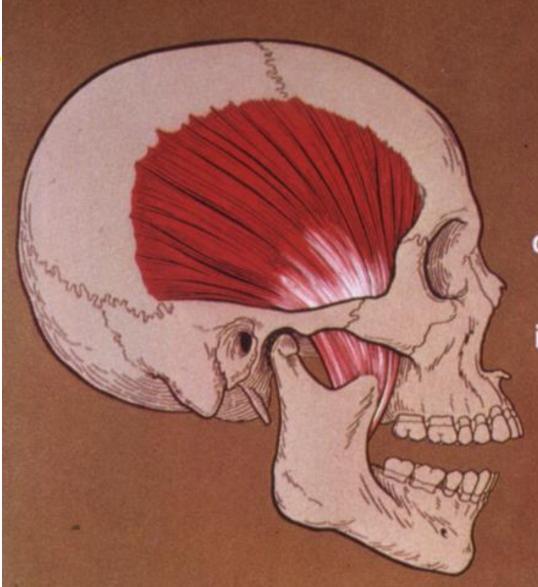
MSc

MBChB

Lateral Pterygoid muscle

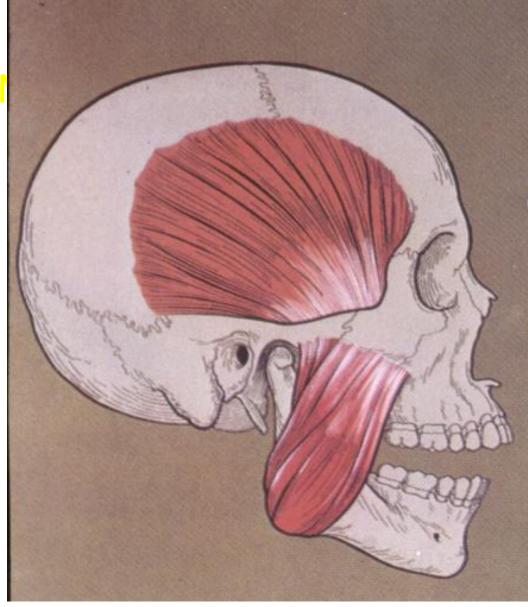






temporalis

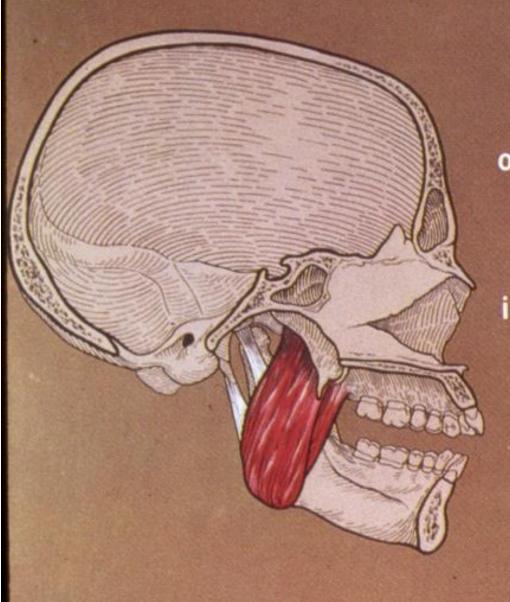
- O: temporal fossa temporal fascia
- i: coronoid process anterior border of ramus



masseter

- O: superficial portion anterior 2/3 of lower border of zygomatic arch deep portion medial surface of zygomatic arch
- i: lateral surface of ramus coronoid process and angle of mandible





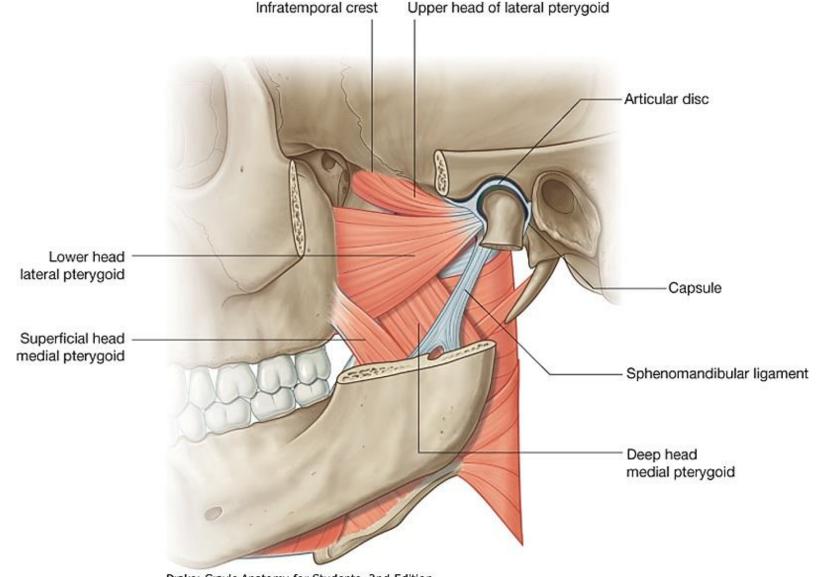
medial pterygoid

O: medial surface of lateral pterygoid plate; pyramidal process of palatine bone; maxillary tuberosity

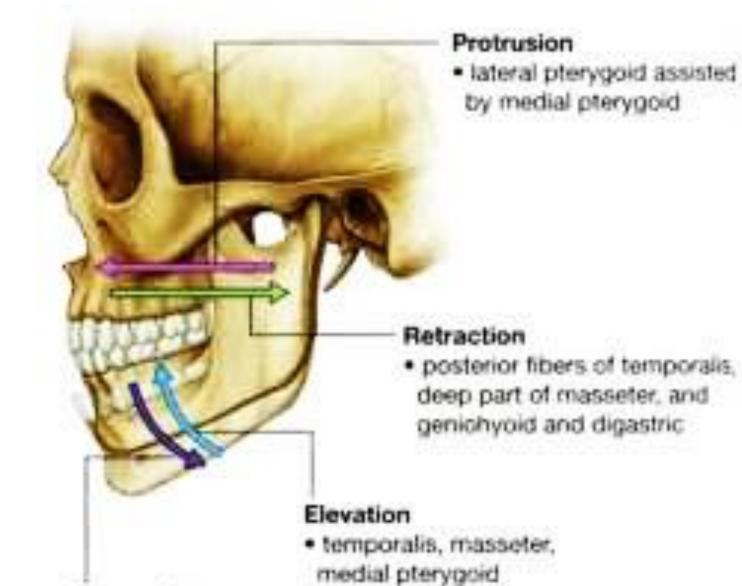
i: posterior and lower part of medial surface of ramus angle of mandible

Muscles of Mastication

- All supplied by Mandibular division of Trigeminal (V3)
- All derived from pharyngeal arch



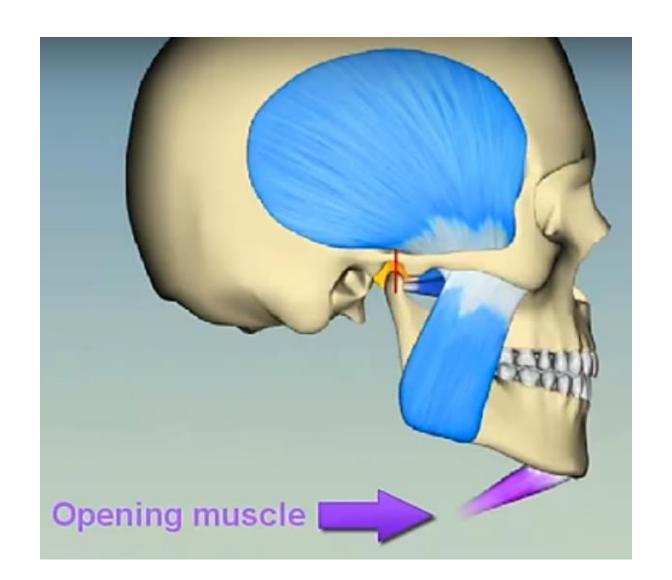
Drake: Gray's Anatomy for Students, 2nd Edition.
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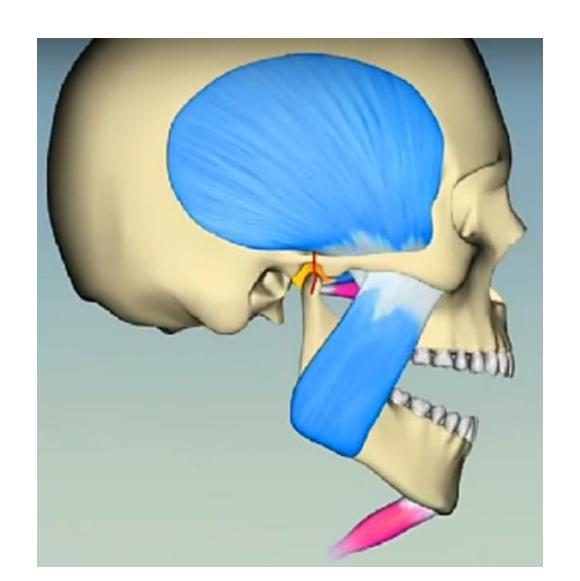
Depression

- · gravity
- digastric, geniohyoid, and mylohyoid muscles

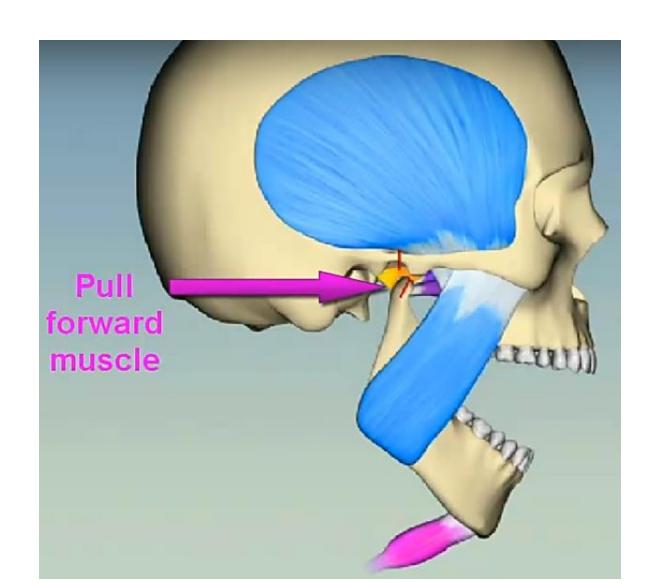
Opening - Depression



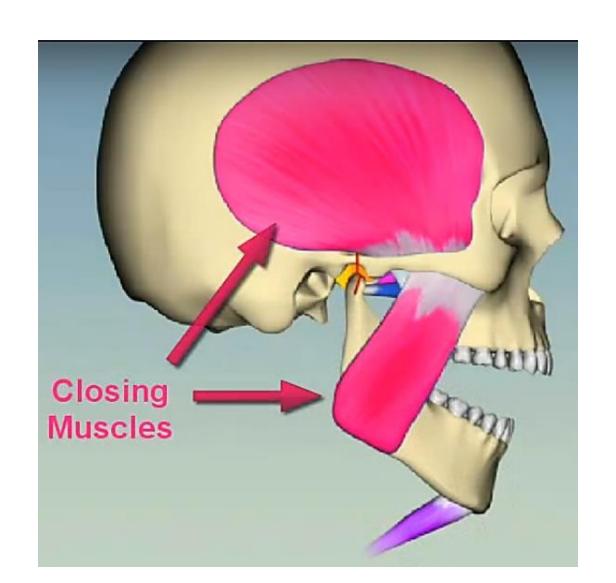
Opening - Depression



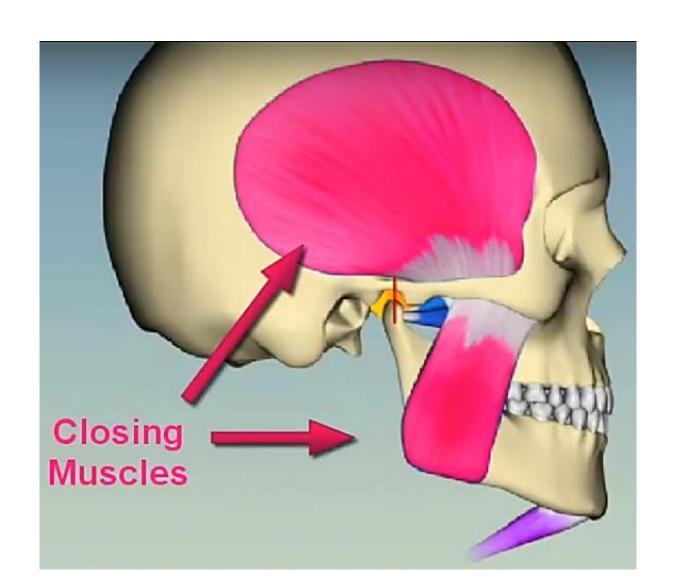
Opening - Depression



Closing - Elevation



Closing - Elevation



Functions of muscles of mastication

Lateral Pterygoids

- Upper head involved mainly with chewing, and functions to anteriorly rotate the disc on the condyle during the closing movement
- Lower head exerts an anterior, lateral, and inferior pull on the mandible, thereby opening the jaw, protruding the mandible, and deviating the mandible to the opposite side

Medial Pterygoids

- Working bilaterally assists in mouth closing.
- Working unilaterally deviation of the mandible toward the opposite side

Functions of muscles of mastication

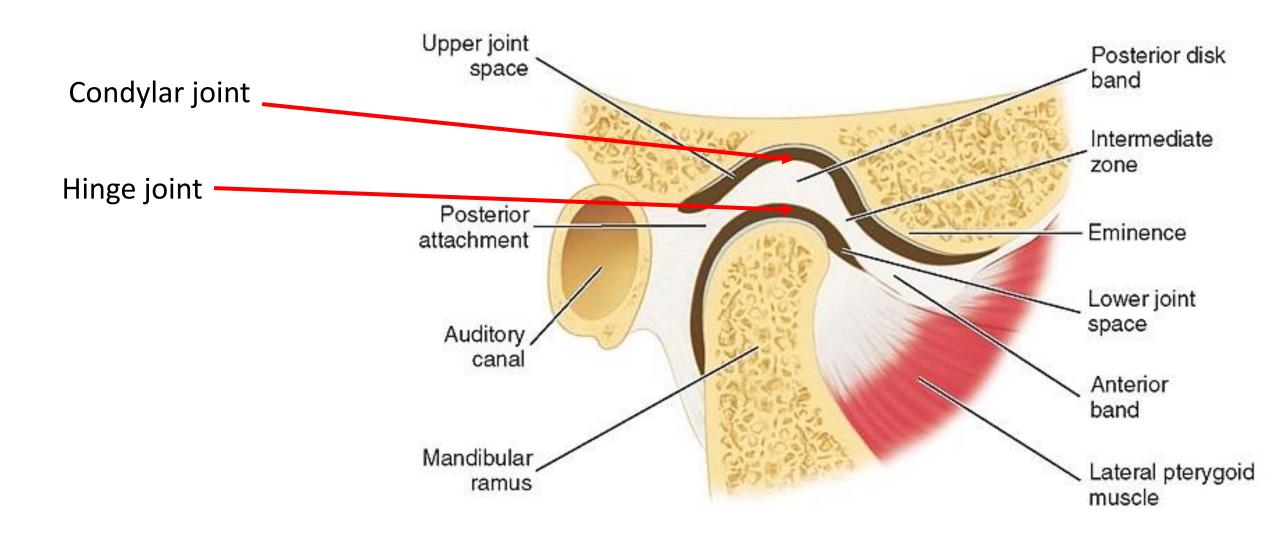
Masseter

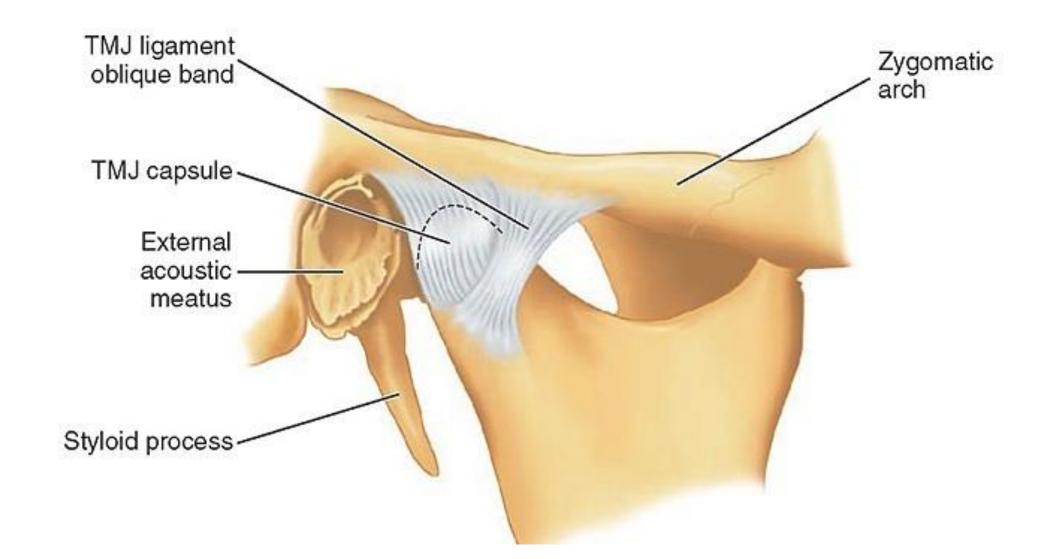
Elevate the mandible, thereby occluding the teeth during mastication.

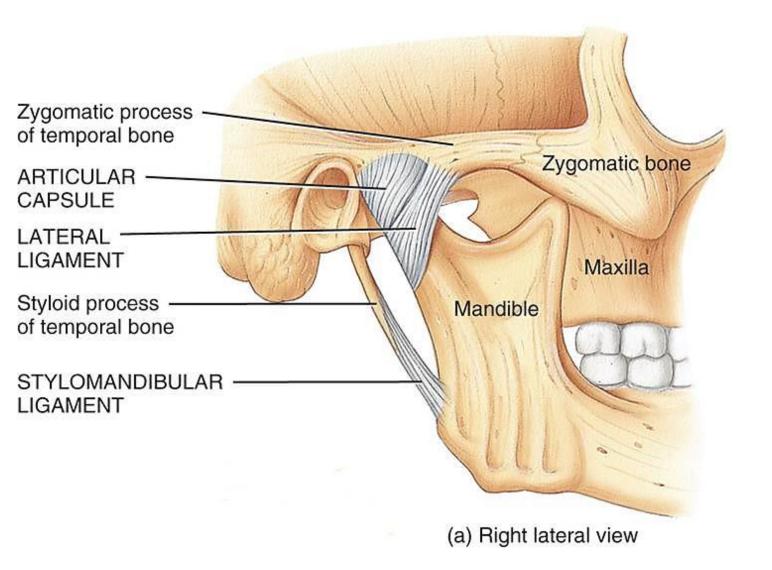
Temporalis

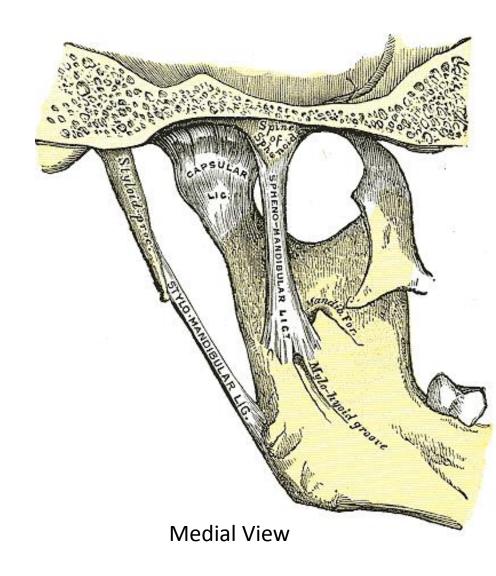
- Assists with mouth closing/side-to-side grinding of the teeth.
- Also provides a good deal of stability to the joint

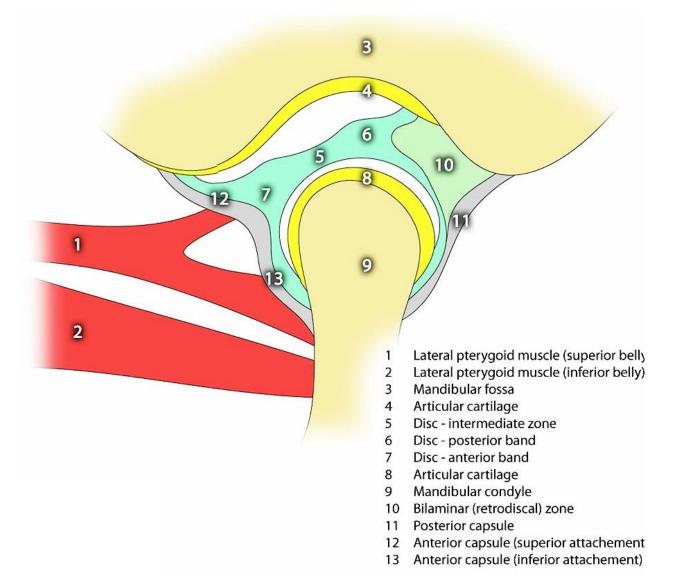
 The articular surfaces of the TMJ are lined by fibrous tissue (i.e. develops in membrane)

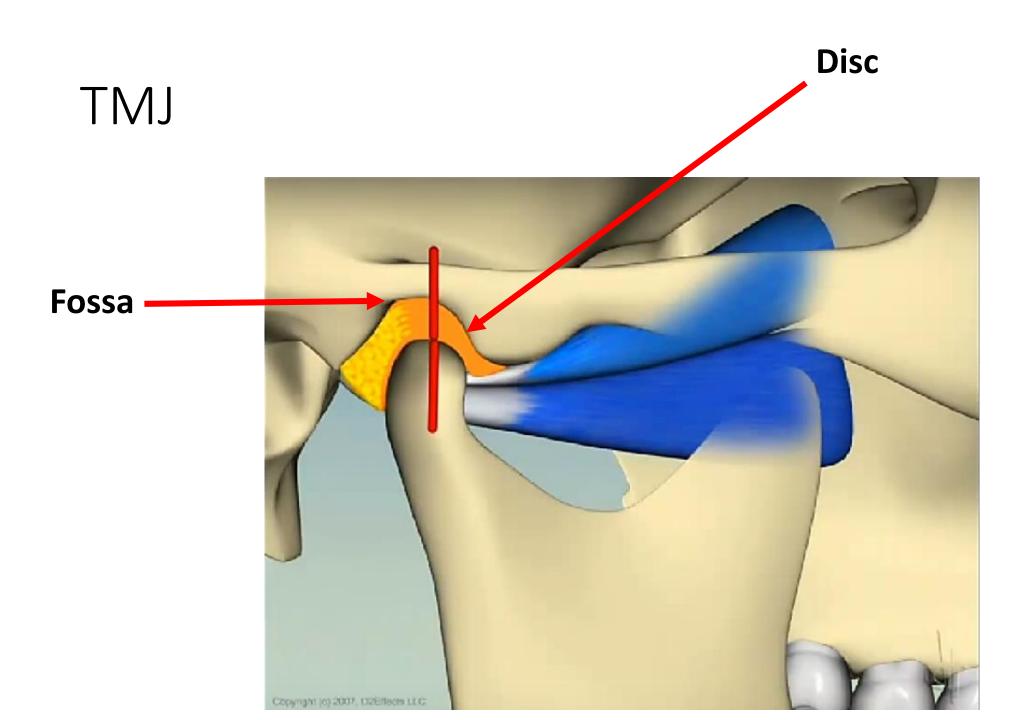




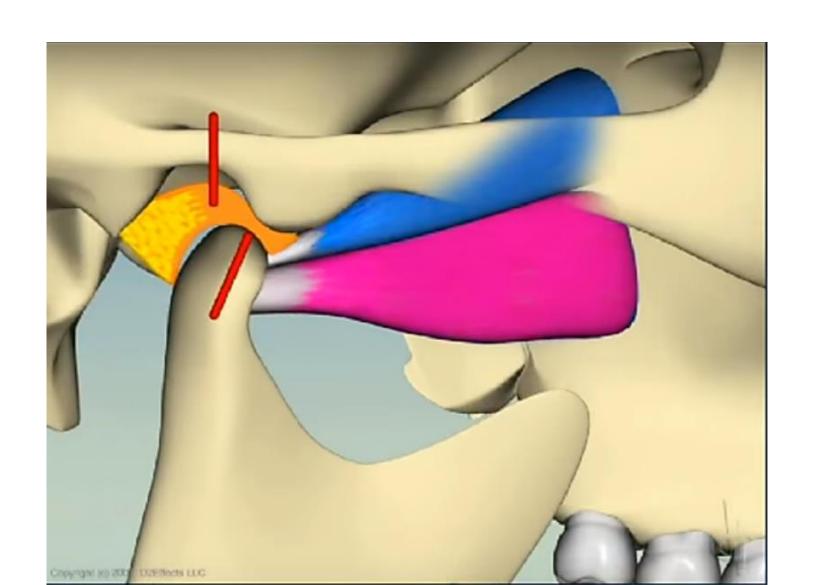




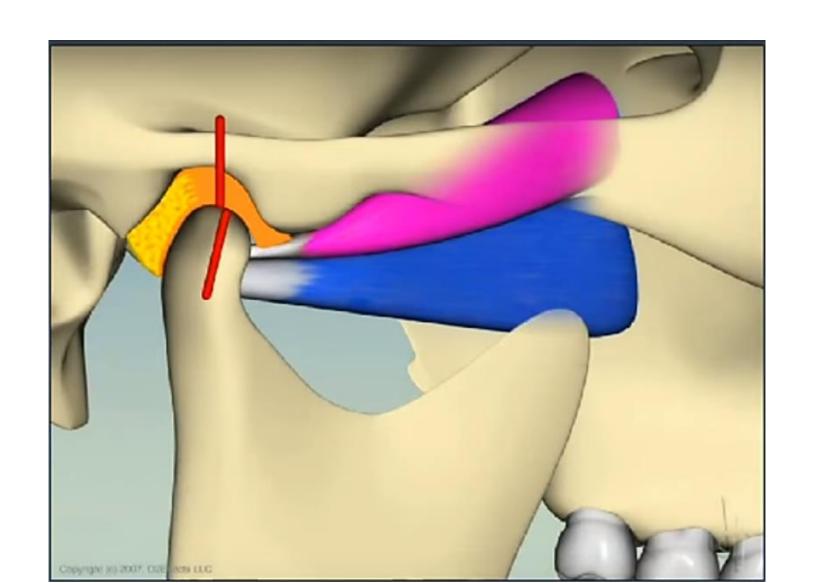


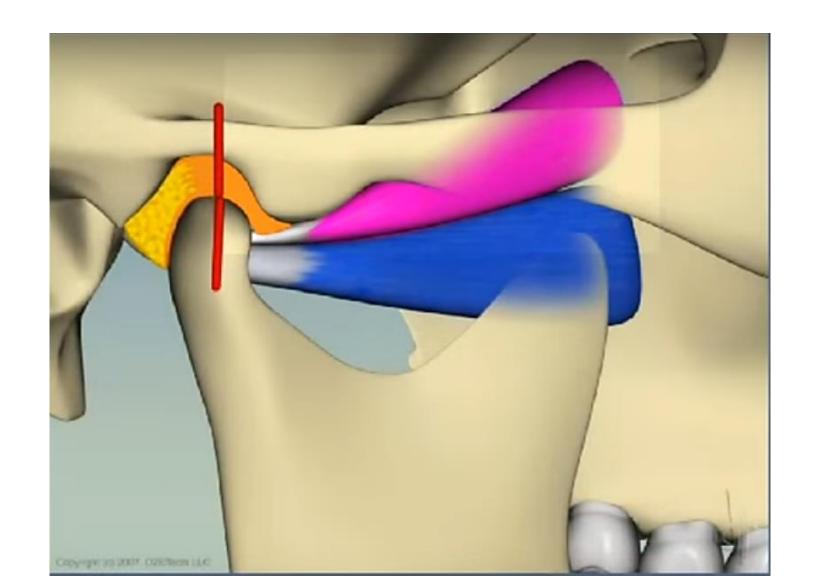


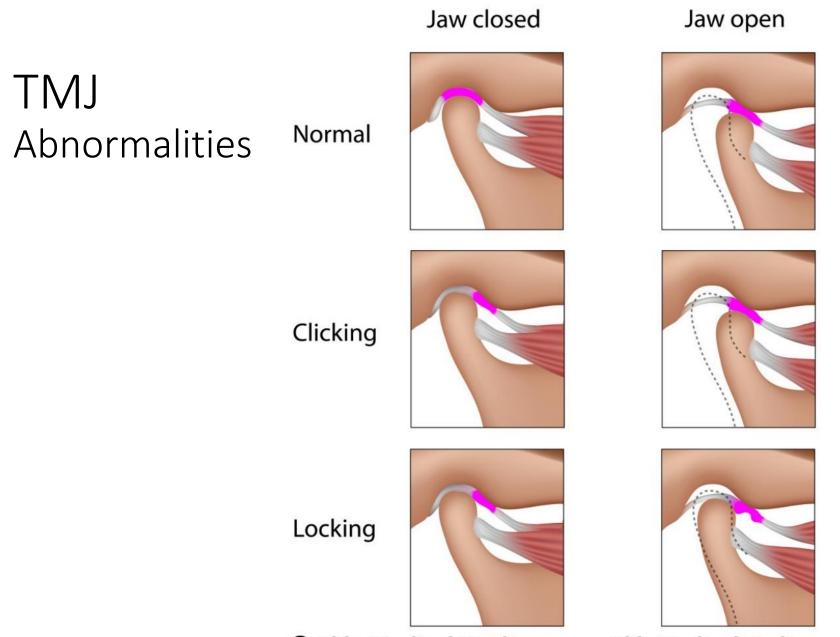
TMJ



TMJ







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Jaw Dislocation Correction



