

The Mandible

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11/1/2022

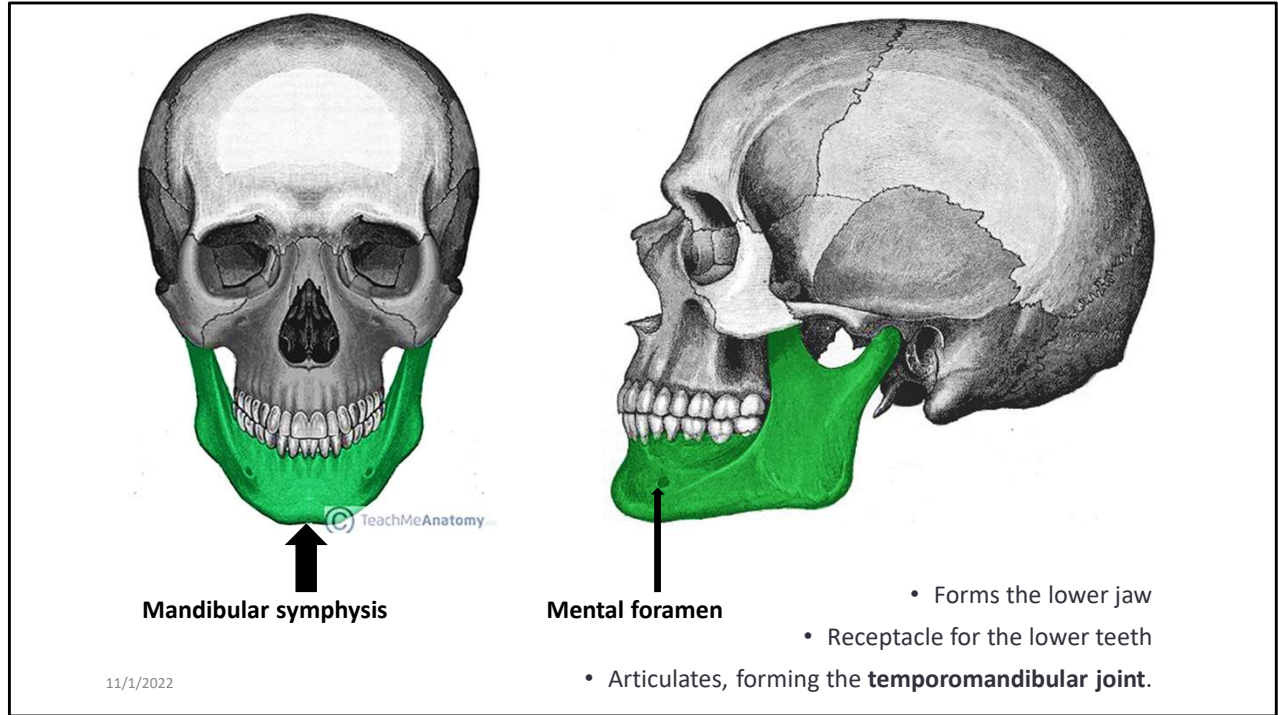
ننصح ان تكون قراءة الموضوع بتفصيله وللاستزادة
من المعلومات من الكتاب المنهجي

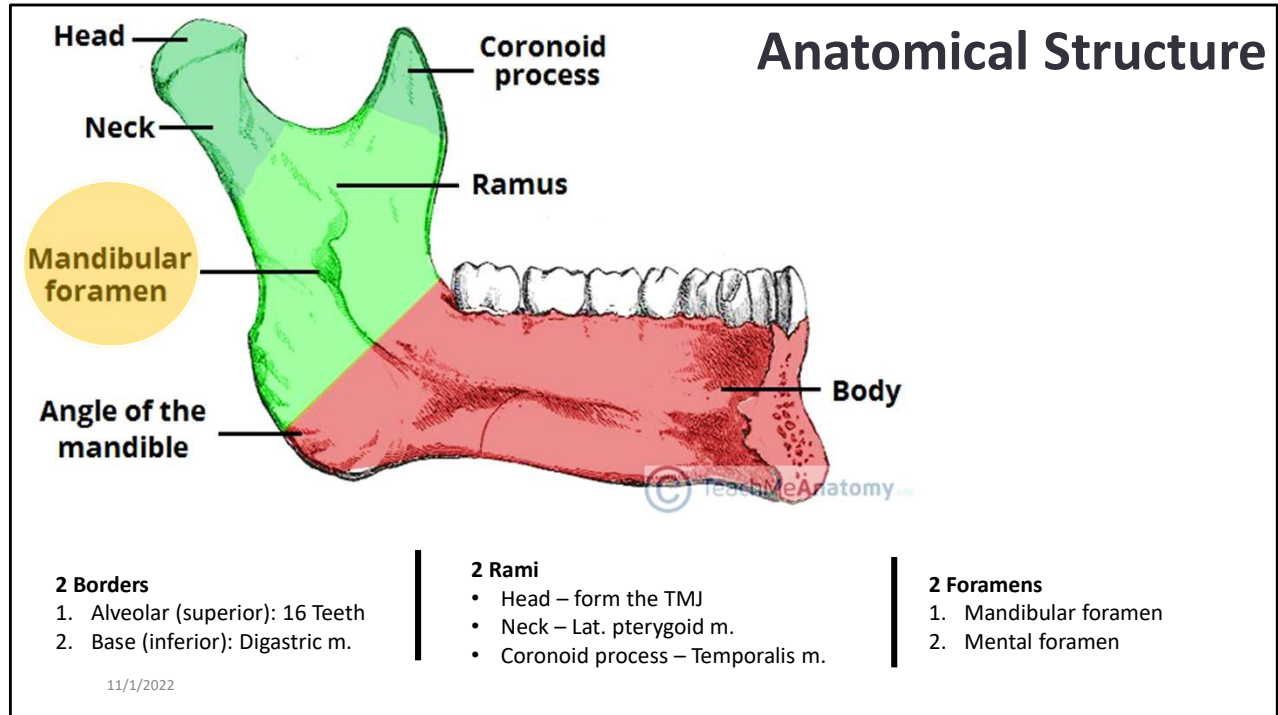
**We advice our students to read this lecture
note in your recommended textbook**

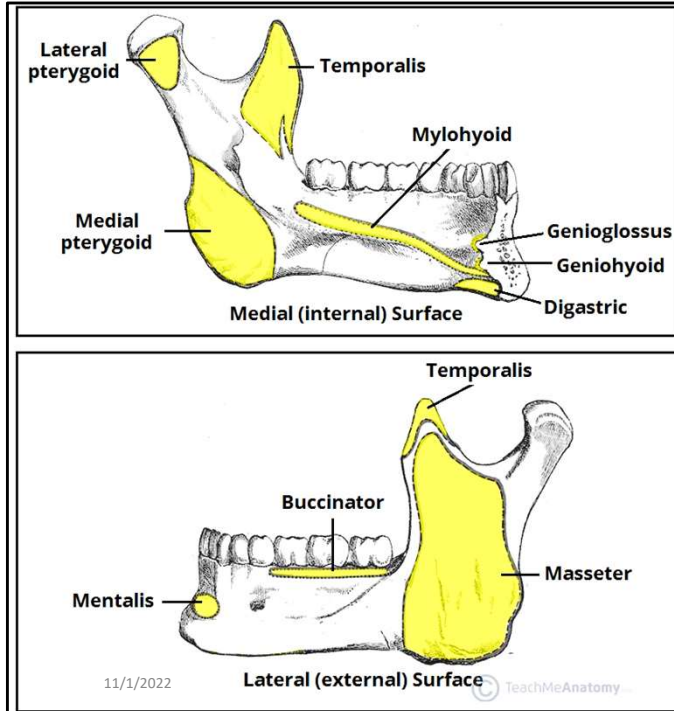
[References that you can depends on:](#)

- Gray's Anatomy for Students. By: Richard Drake, A. Wayne Vogl, Adam Mitchell
- Snell's Clinical Anatomy by Regions. By Dr. Lawrence E. Wineski PhD

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Muscle Attachments

Mandibular body

• External (lateral) surface

1. Mentalis
2. Buccinator
3. Platysma
4. depressor labii inferioris
5. depressor anguli oris

• Internal (medial) surface

1. Genioglossus
2. Geniohyoid
3. Mylohyoid
4. digastric

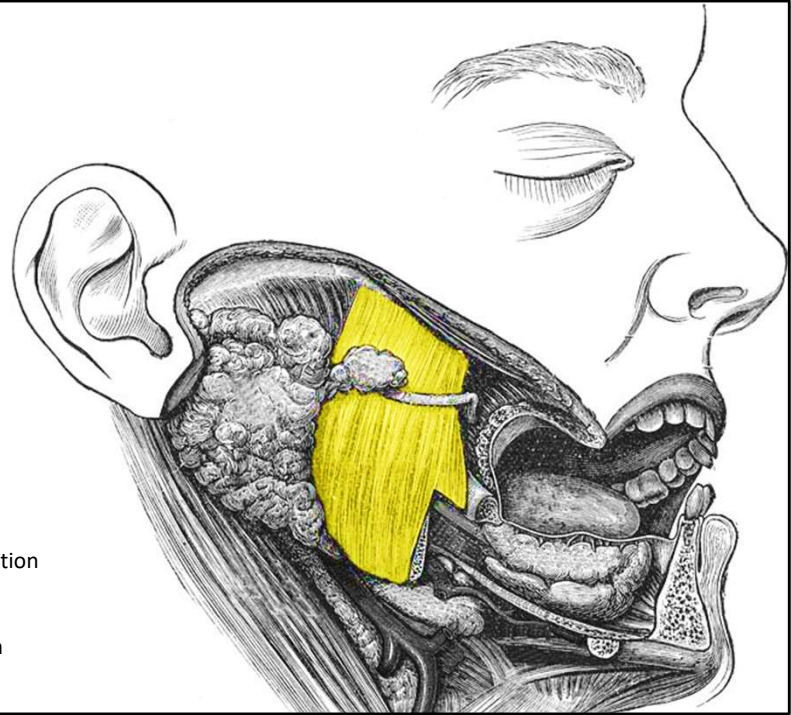
Mandibular rami

1. Masseter
2. Temporalis
3. medial pterygoid
4. lateral pterygoid

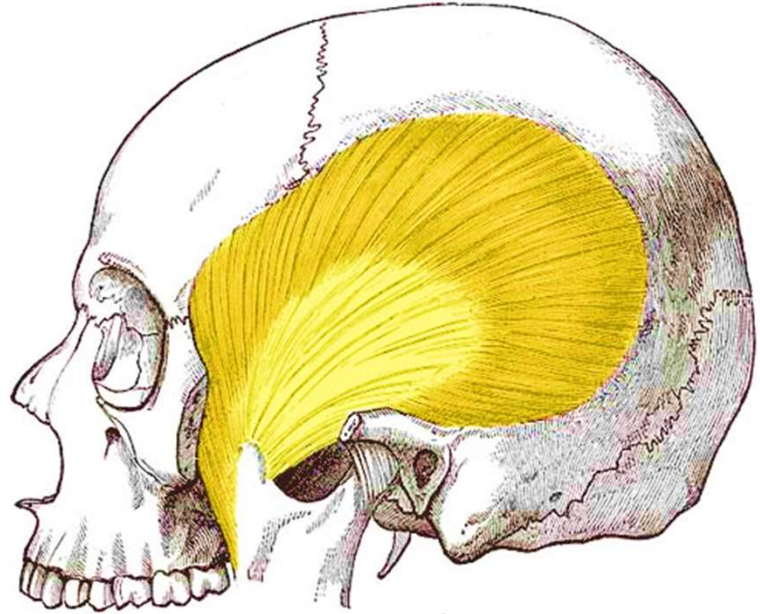
Masseter

- It is the most powerful muscle of mastication
- Two heads: deep and superficial
- Elevates the mandible, closing the mouth

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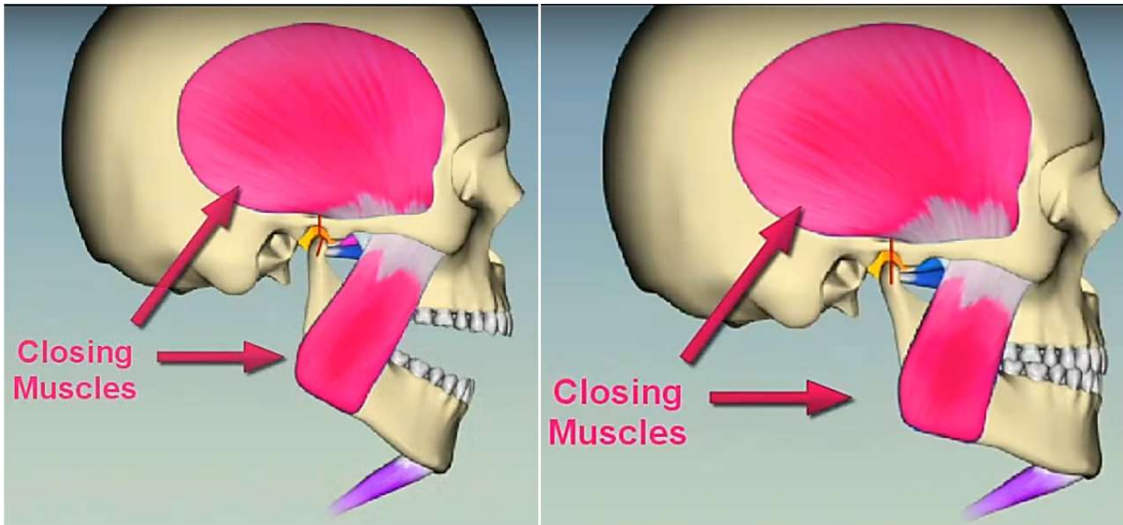


Temporalis

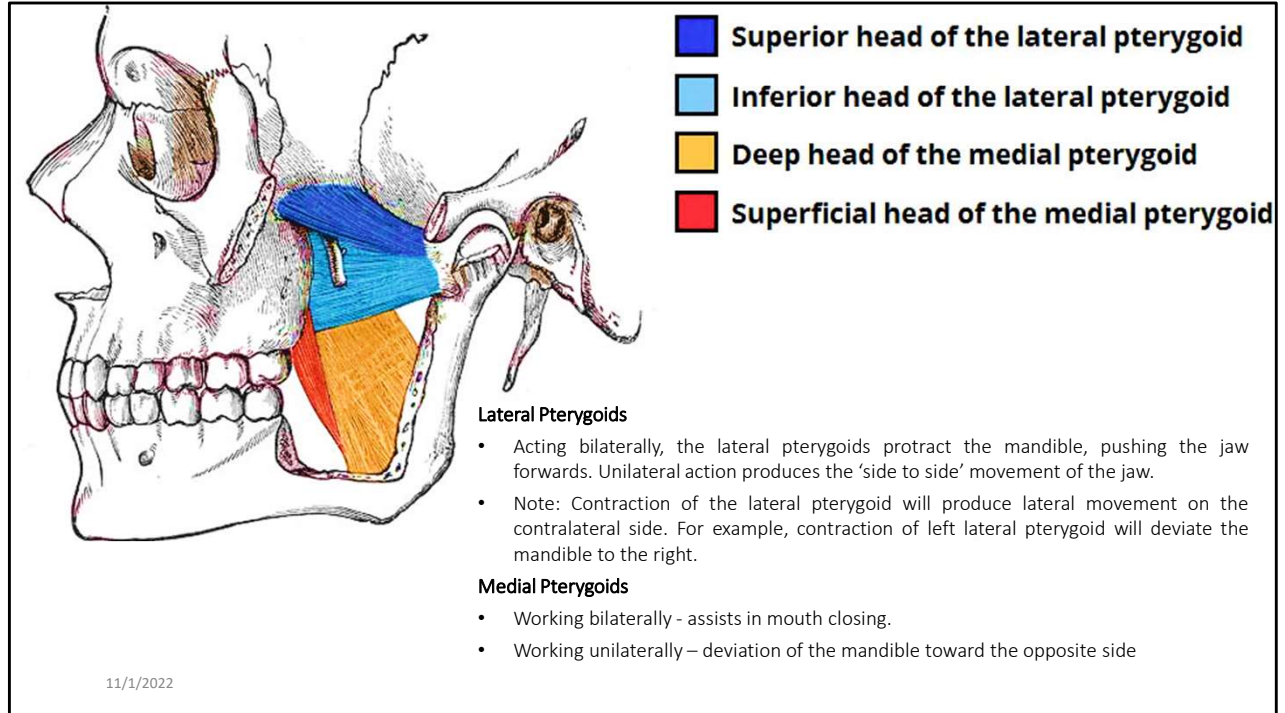


- Originates from the temporal fossa.
- The muscle is covered by tough fascia.
- Elevates the mandible, closing the mouth.
- Retracts the mandible, pulling the jaw posteriorly.

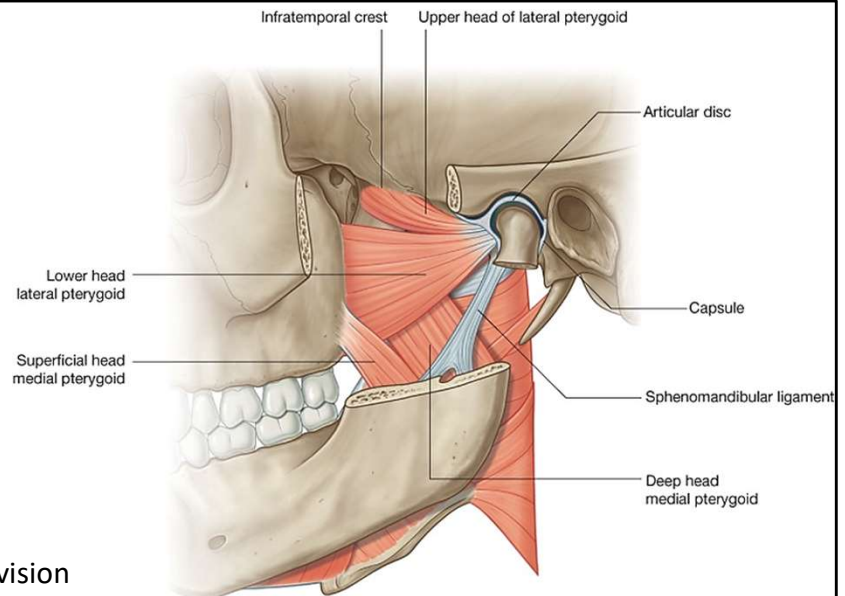
Closing - Elevation



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Muscles of Mastication



Drake: Gray's Anatomy for Students, 2nd Edition.
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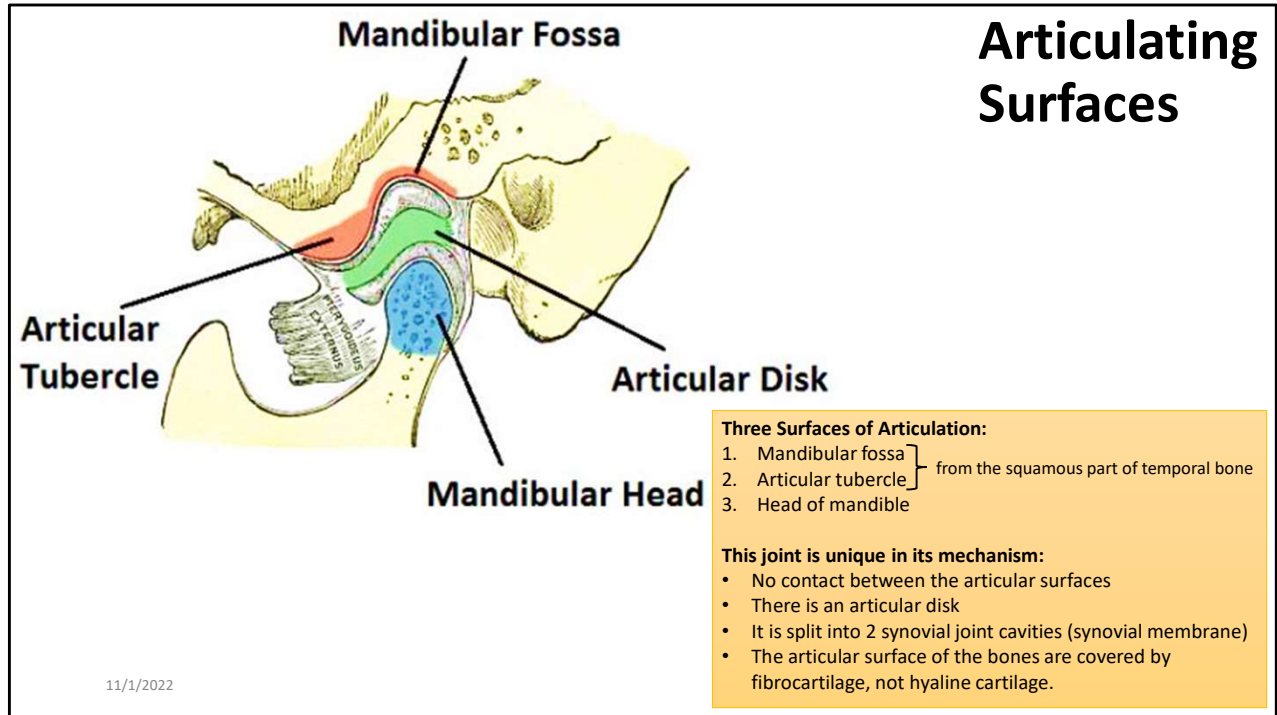
- All supplied by Mandibular division of Trigeminal (V3)
- All derived from pharyngeal arch

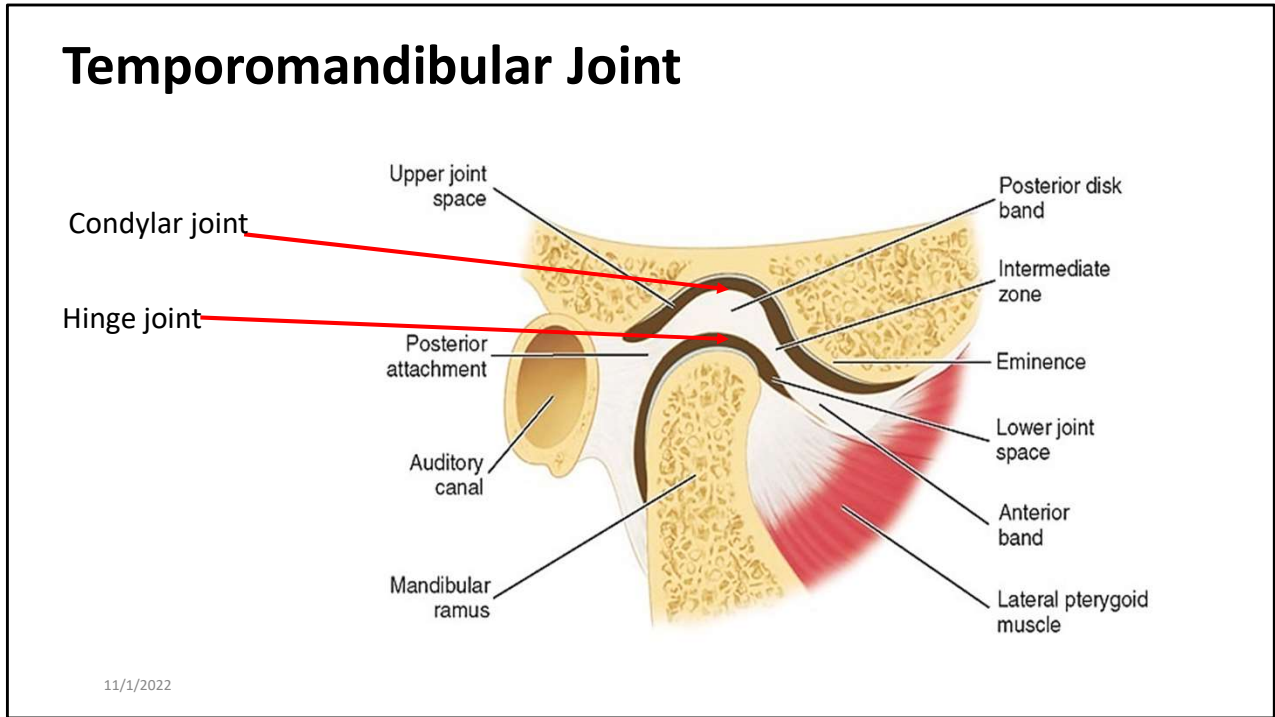
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Joint of the Jaw - TMJ



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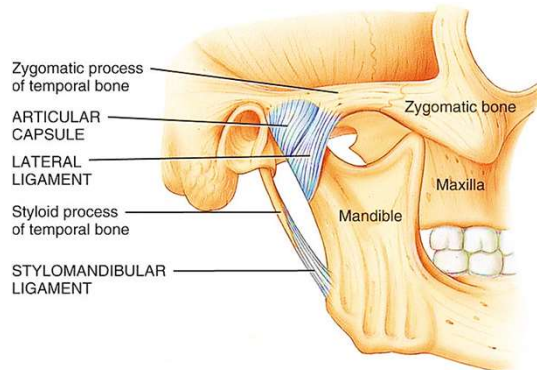


Ligaments

3 extracapsular ligaments:

1. Lateral ligament (Thick capsule)
2. Sphenomandibular ligament
3. Stylomandibular ligament (thick parotid fascia)

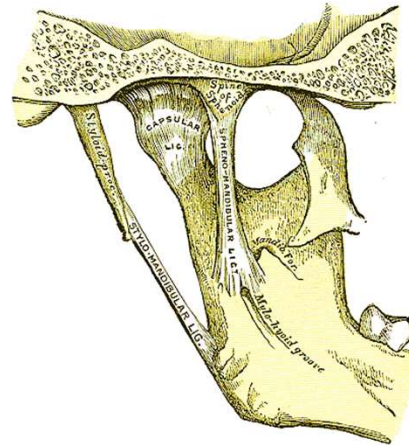
Lateral

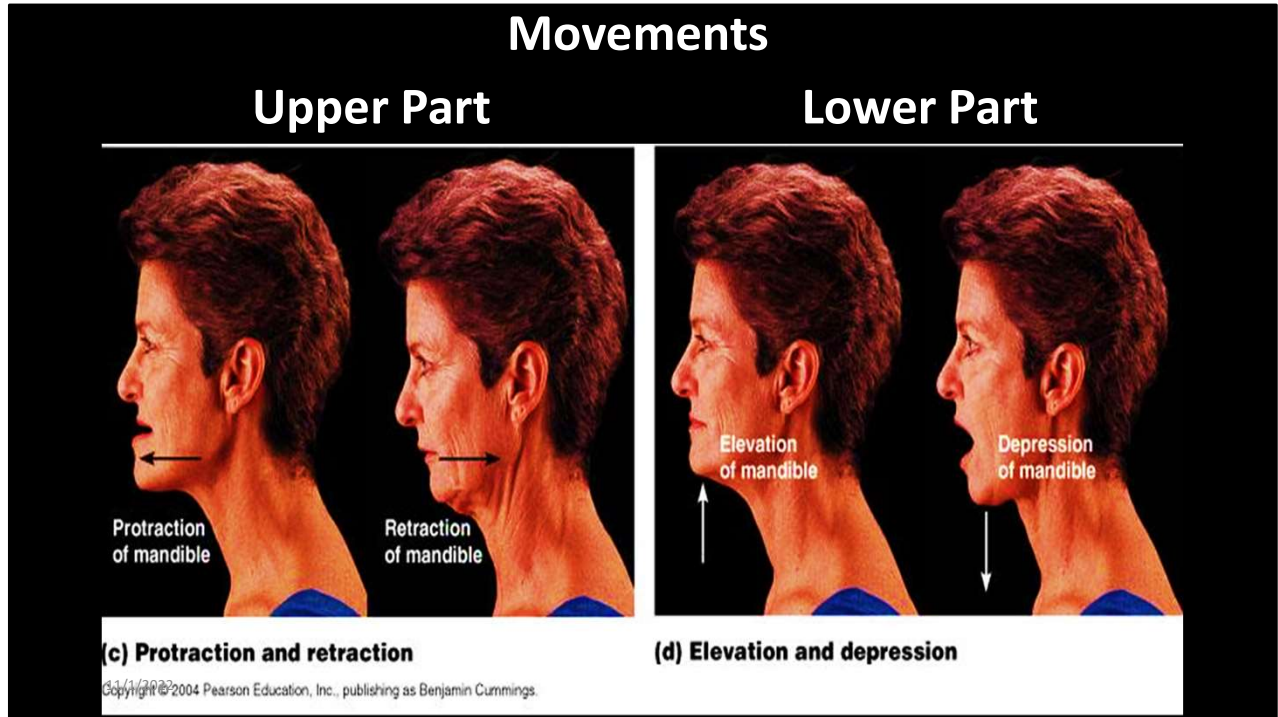


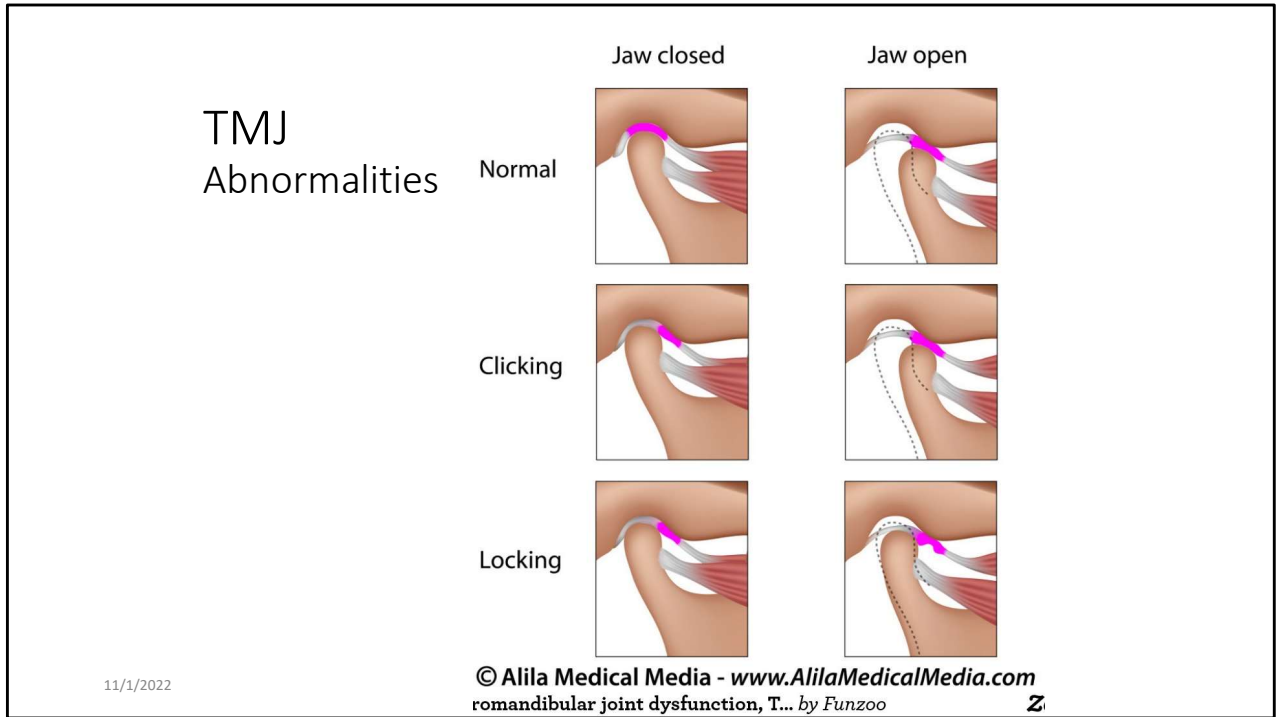
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(a) Right lateral view

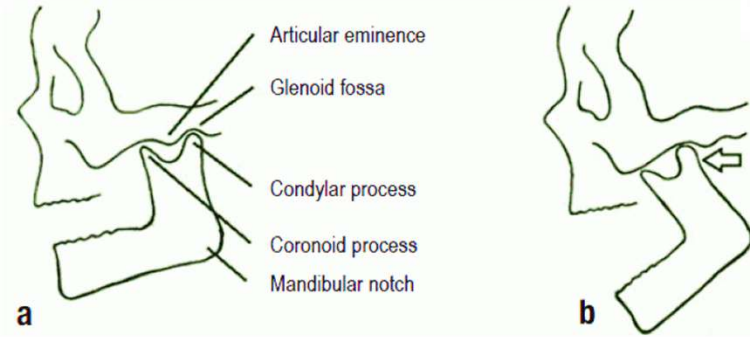
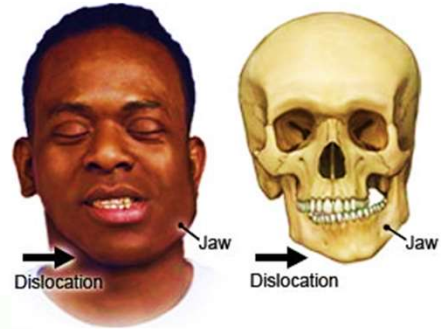
Medial







Temporomandibular Joint Dislocation Anatomy

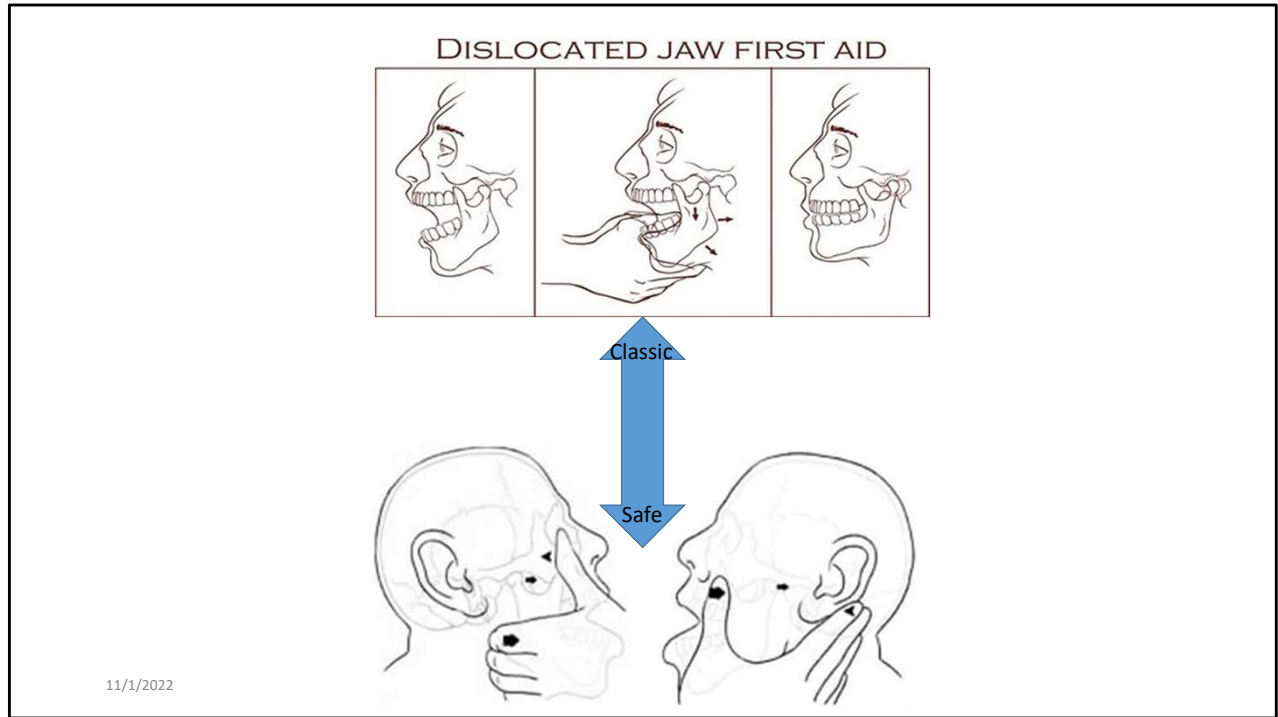


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Jaw Dislocation Correction



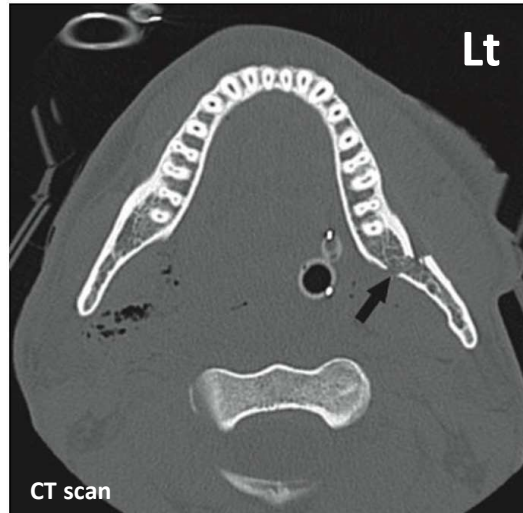
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Emergency Case

His jaw is close tightly.
Which of the
following muscles is
acting to close the
jaw?

- (A) Temporalis
- (B) Lateral pterygoid
- (C) Zygomaticus major
- (D) Masseter
- (E) Posterior digastric



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