

Human Anatomy -2nd year

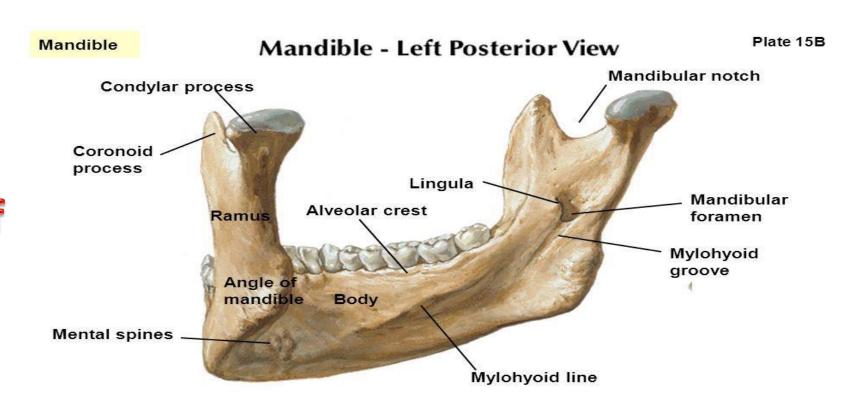




Anatomy Of Mandible Lecture (4) By Dr: Hassna Bader Jawad Department of human anatomy College of medicine University of Basrah

Objective Learning

Identify the parts of the mandible
 Recognize the bony landmarks of the mandible

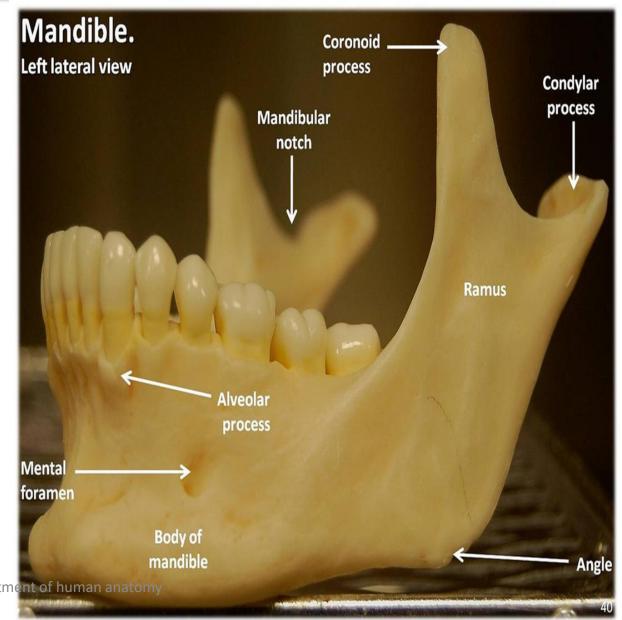


Anatomy Of The Mandible

Mandible is the largest, strongest and lowest bone of the face .

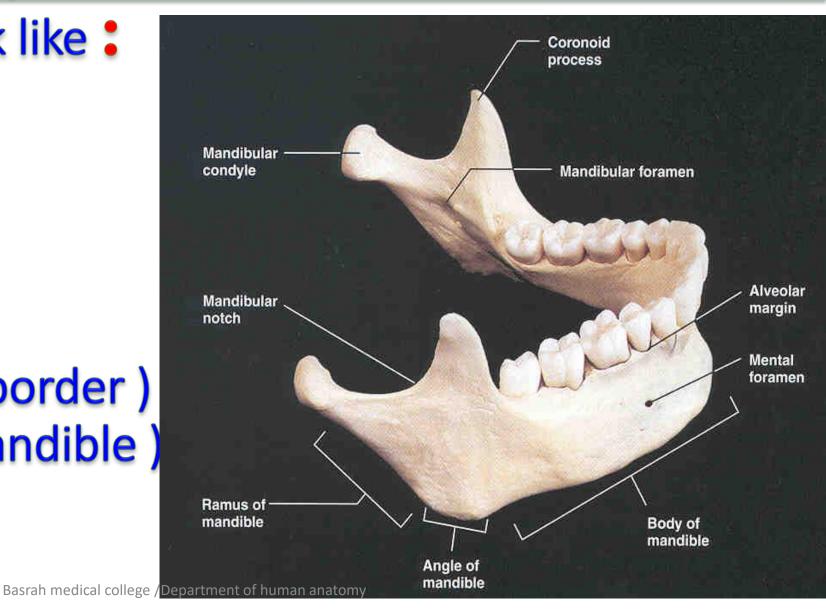
It consisted of

- 1. Body of mandible
- 2. Right and left rami
- 3. Angle of mandible where the body and ramus are met.

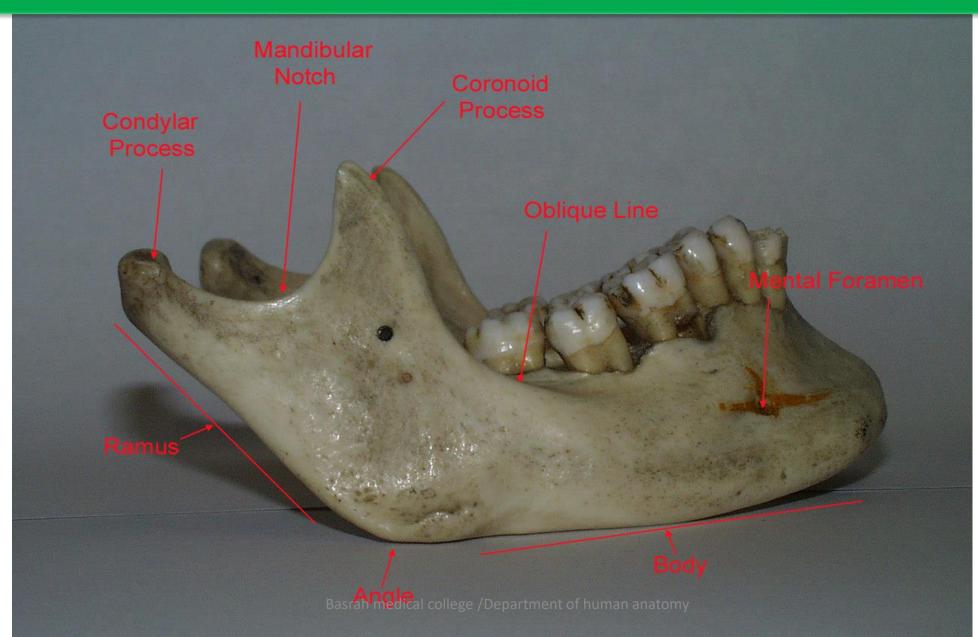


The Body Of The Mandible

- It is curved bone look like: horse shoe and has
- Two Surfaces
- * External surface
- *Internal surface
- **♣**Two Borders
- . Superior (Alveolar border). Inferior (Base of mandible)

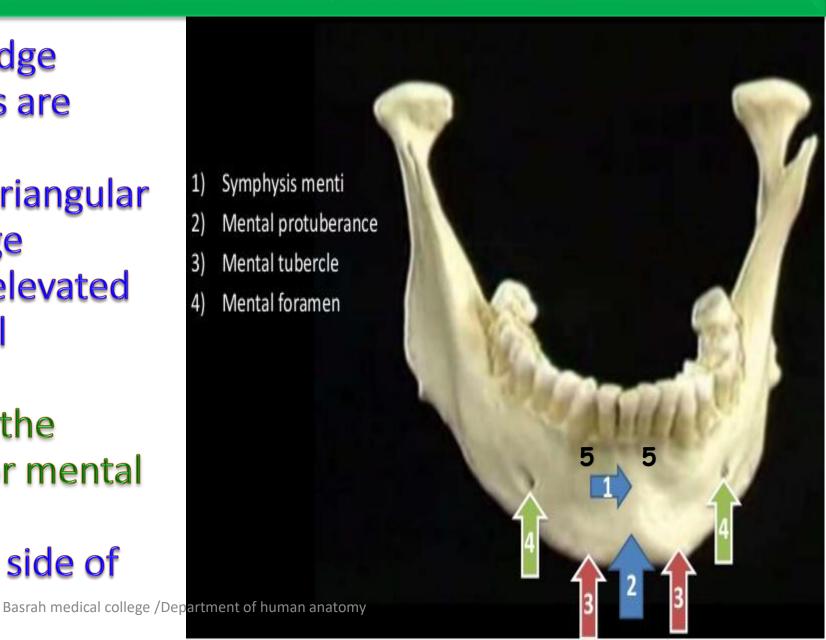


External surface



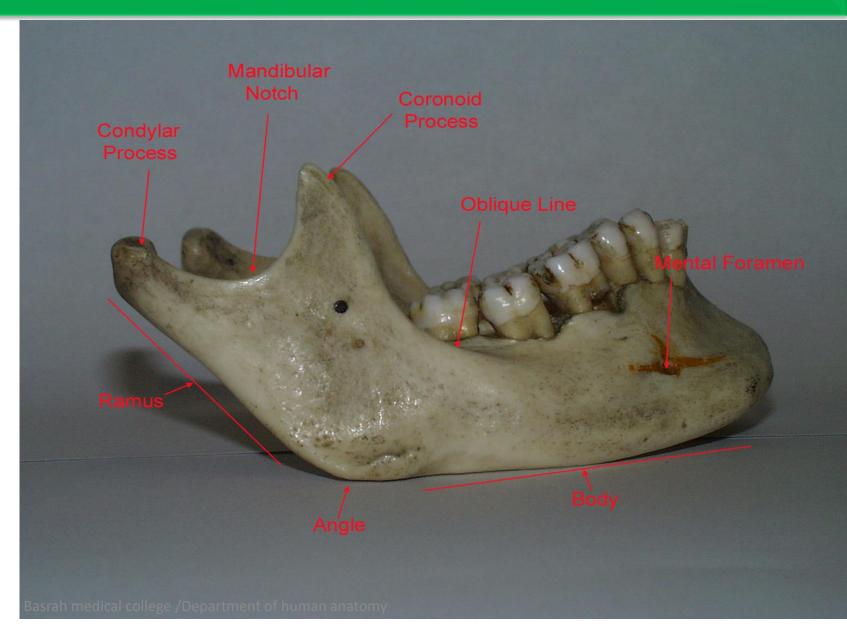
External surface

- 1.Symphysis menti: is a ridge where the Rt and Lt bones are joined
- 2.Mental protuberance :triangular eminence below the ridge
- 3. Mental tubercles: the elevated area of the base of mental protuberance
- 4. Mental foramen below the second premolar teeth for mental vessels and nerve.
- 5. Incisive fossa on either side of symphysis menti



External surface

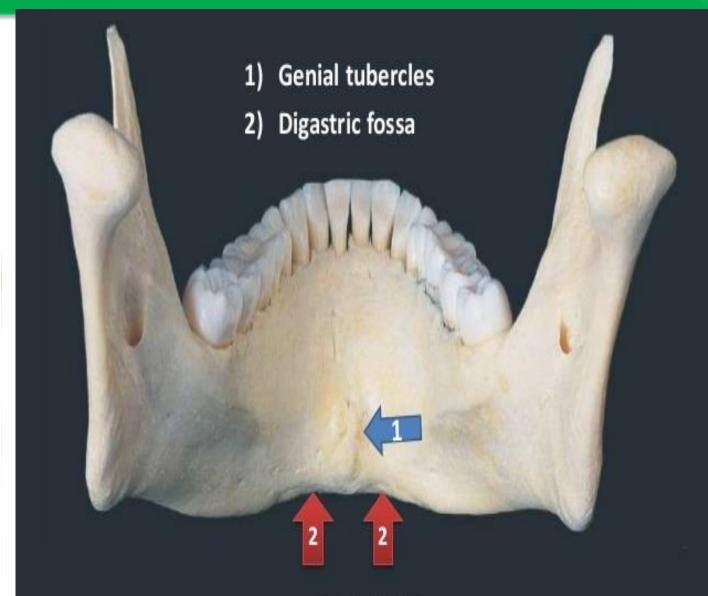
6. Oblique line: runs upward, backward to be continuous with anterior border of ramus



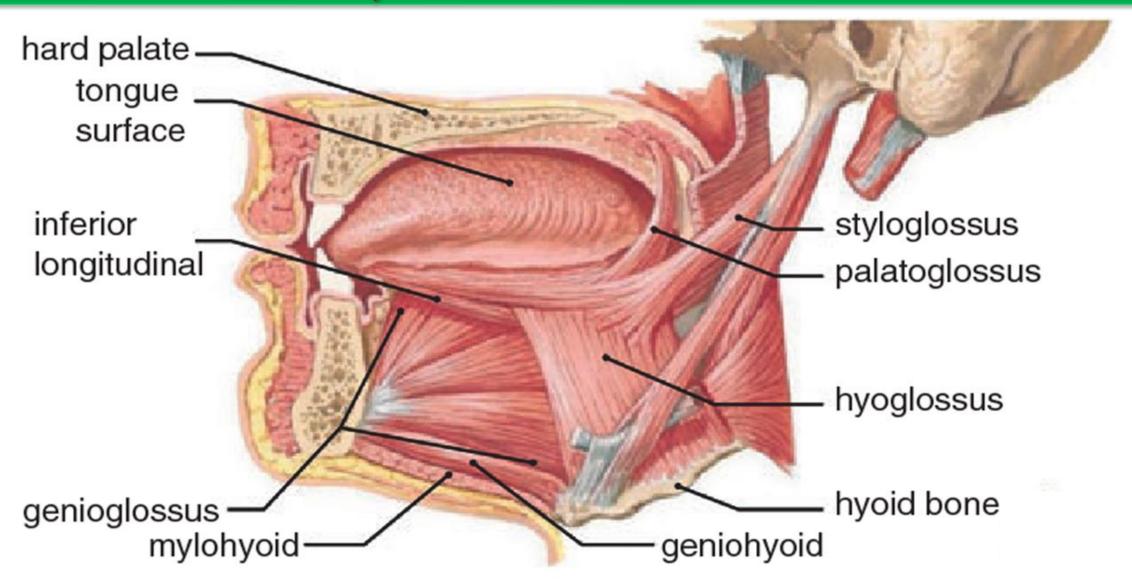
Internal Surface

1. The genial tubercle:

also known as the mental spine, is a slight projection found on the internal side of the mandible It consisted of four spines(the superior, inferior, right, and left spines), and it provides attachment for the genioglossus and geniohyoid muscles.



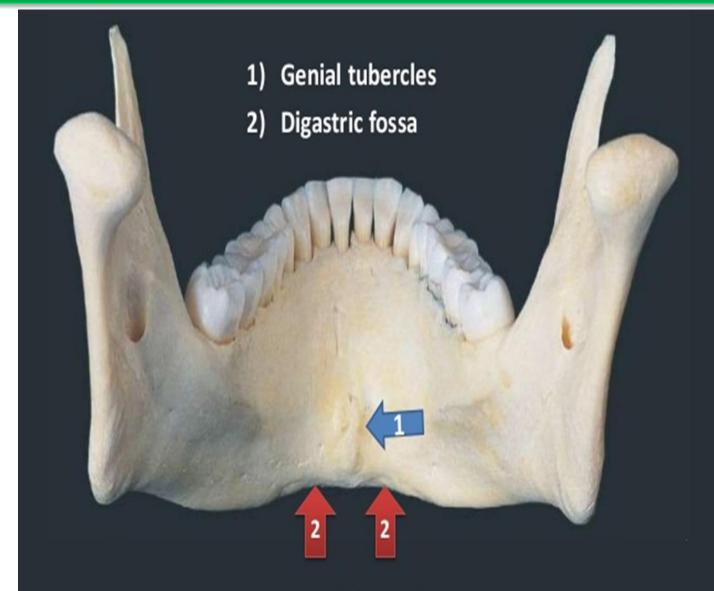
Anatomy Of The Mandible



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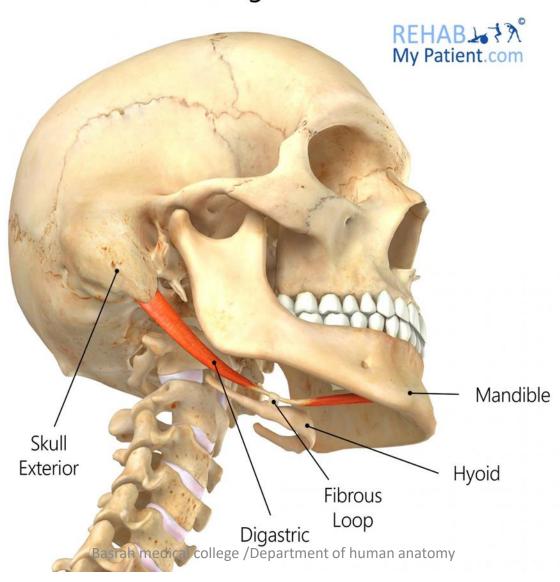
Internal Surface

2. Digastric Fossa: On either side of mid line: oval depression for anterior belly of digastric.



Internal Surface

Digastric



Internal surface

3. Mylohyoid line: **Extends diagonally** from the lower part of symphysis menti to the inner surface of the alveolar border a little below the third molar tooth.



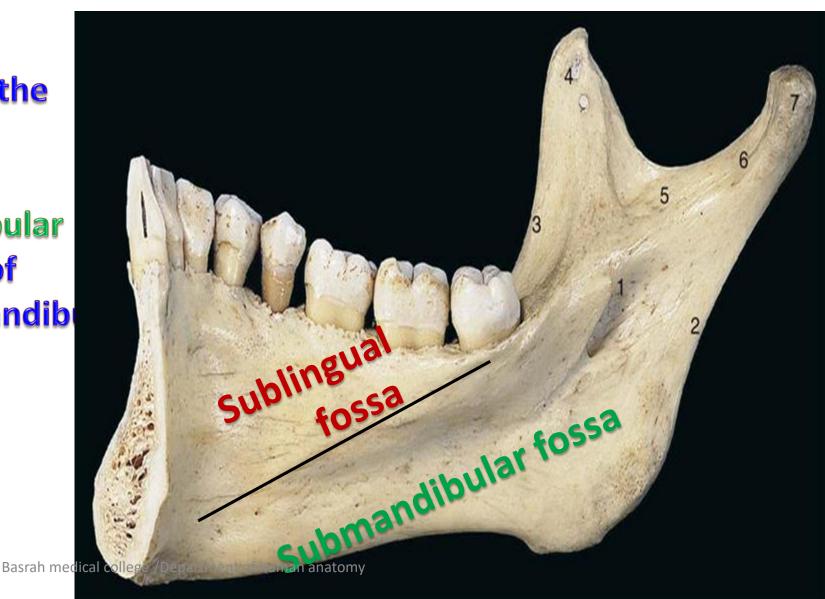
This line gives attachment to the mylohyoid muscle, and divides the internal surface into

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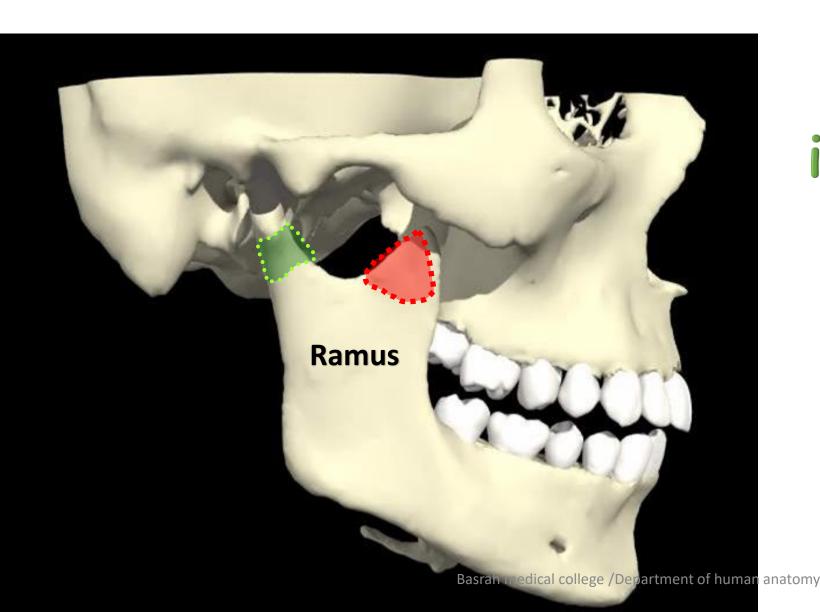
Internal surface

4. Upper sublingual fossa for the sublingual gland.

5. Lower concave submandibular fossa for the lateral surface of superficial part of the submandibular gland.



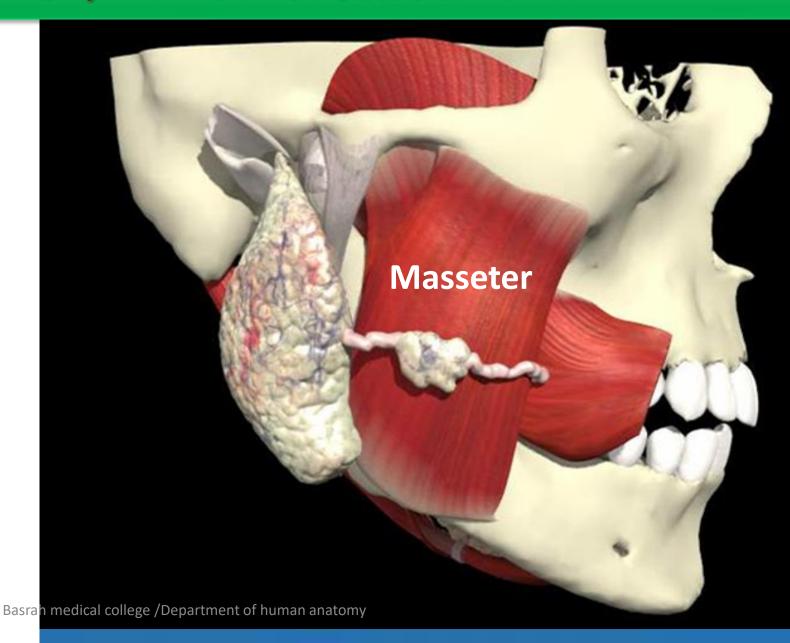
The Ramus Of The Mandible



The Ramus: is quadrilateral in shape, and has two surfaces, four borders, and two processes

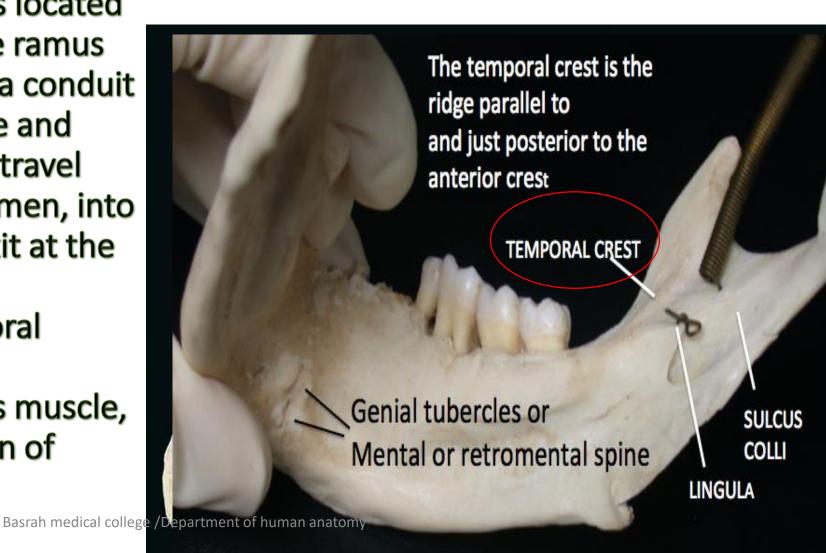
Ramus Of The Mandible

Lateral surface: is flat and marked by oblique ridges at its lower part; it gives attachment to the Masseter.



Medial Surface Of Ramus

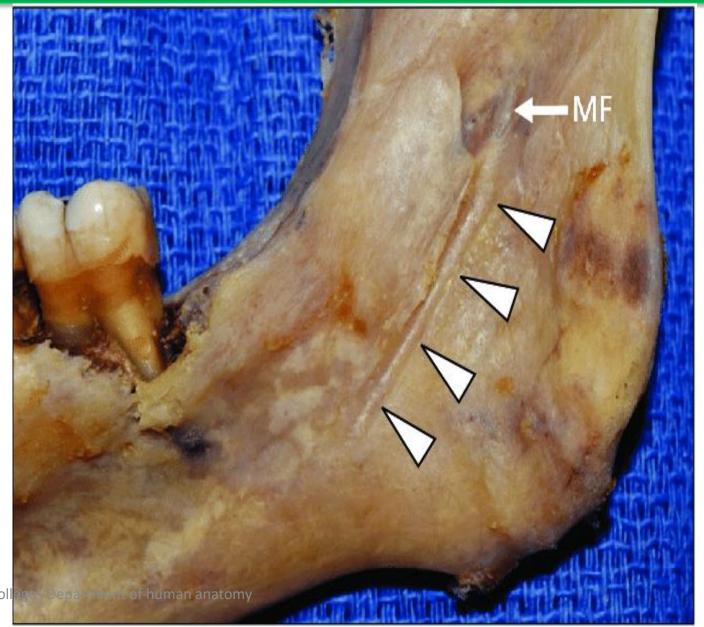
- 1. The mandibular foramen is located on the internal surface of the ramus of the mandible. It serves as a conduit for the inferior alveolar nerve and inferior alveolar artery. They travel through the mandibular foramen, into the mandibular canal, and exit at the mental foramen
- 2.Temporal crest: The temporal crest is a bony ridge for the attachment of the temporalis muscle, located at the anterior margin of ramus



Ramus Of The Mandible

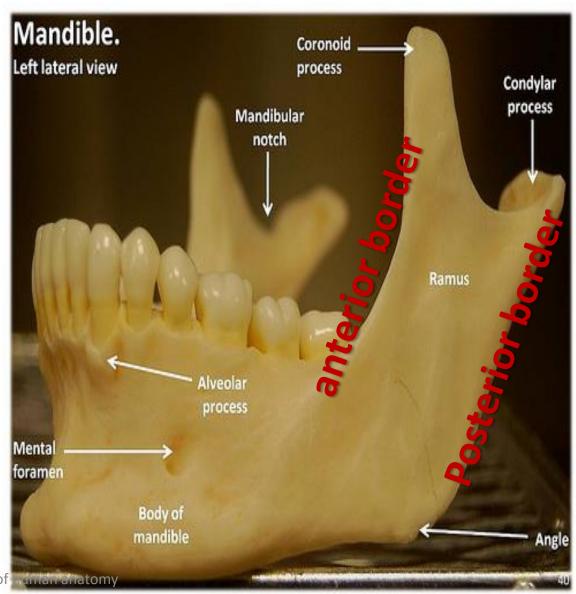
3. Lingula mandibulæ: sharp spine which gives attachment to the sphenomandibular ligament.

4. Mylohyoid Groove:
Runs obliquely and
downward for mylohyoid
vessels and nerves



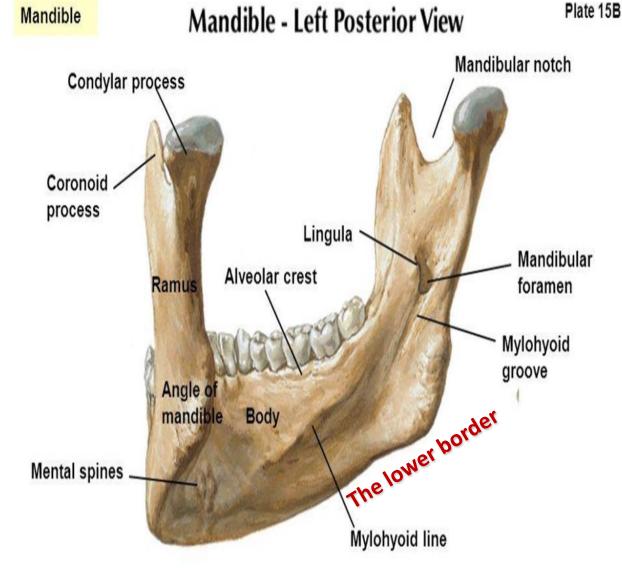
Borders Of Ramus Of Mandible

- 1. The anterior border is thin above, thicker below, and continuous with the oblique line.
- 2.The posterior border is thick, smooth, rounded, and covered by the parotid gland



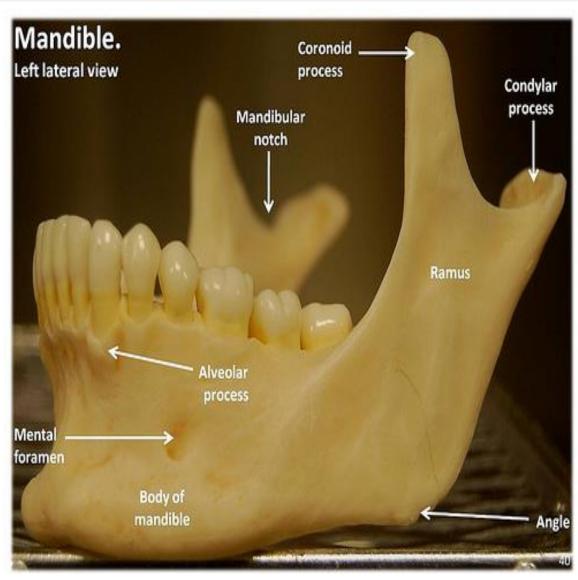
Borders Of Ramus Mandible

3. The lower border is thick, straight, and continuous with the inferior border of the body of the bone.



Borders Of Ramus Of Mandible

4. The upper border: thin, and is bounded by two processes, the coronoid in front and the condyloid behind, separated by a deep concavity, the mandibular notch



Process of ramus of mandible

Condyloid Process



Coronoid Process

Coronoid Process

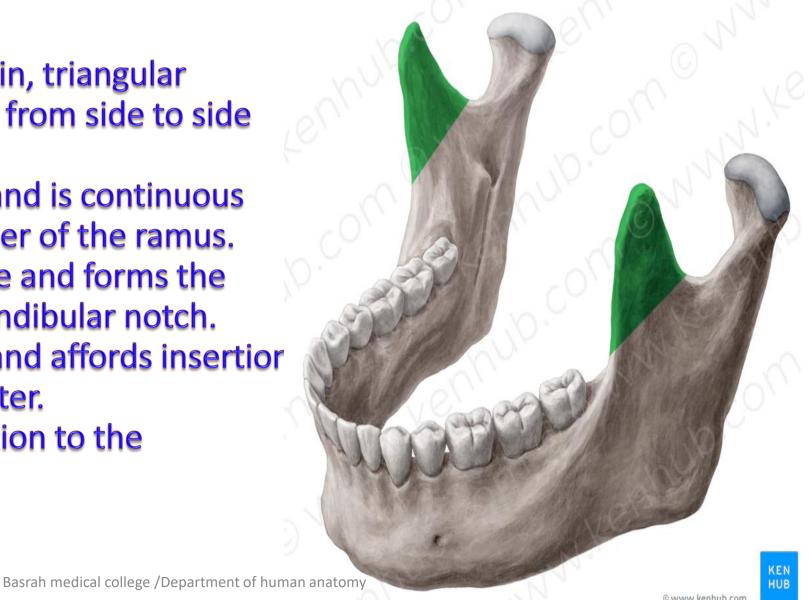
The Coronoid Process: is a thin, triangular eminence, which is flattened from side to side and varies in shape and size.

1. anterior border is convex and is continuous below with the anterior border of the ramus.

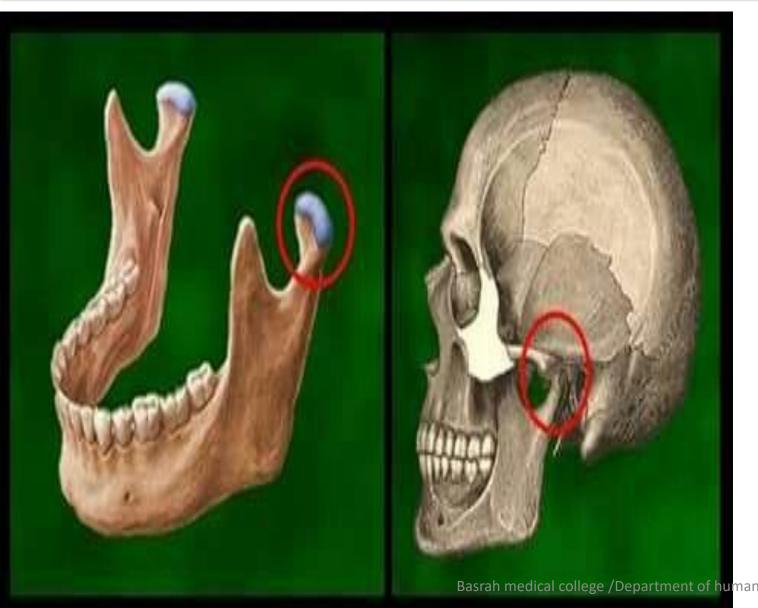
2. posterior border is concave and forms the anterior boundary of the mandibular notch.

3. lateral surface is smooth, and affords insertior to the Temporalis and Masseter.

4. medial surface gives insertion to the Temporalis



Condyloid process



Consisted of

1. condyle, presents an articular surface for articulation with mandibular fossa of temporal bone at the temporomandibular joint 2. Neck: constricted portion

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Mandibular notch

The mandibular notch:

Is a deep semilunar depression separtes the two processes, and it is crossed by the masseteric vessels and nerve.

