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# ऊर्ध्व-हनु धमनी (maxillary Artery)

## MAXILLARY ARTERY

- Features
  - Larger terminal branch of ECA
- course
  - Given off behind neck of mandible
- First / mandibular part
  - Runs horizontally forwards
  - First between neck of mandible and sphenomandibular ligament
  - Below auriculotemporal [nerve](#)
  - Along lower border of lateral pterygoid
- Second part
  - Upwards and forwards
  - Superficial to lower head of lateral pterygoid
- Third part
  - Passes between two heads of lateral pterygoid
  - Through pterygomaxillary fissure
  - Enter pterygopalatine fossa
- BRANCHES
  - Branches of first part
    - Deep auricular artery
      - Supplies external acoustic meatus , tympanic membrane and TMJ
    - Anterior tympanic branch
      - Supplies middle [ear](#) , medial surface of tympanic membrane
    - Middle meningeal artery
      - Lies between lateral pterygoid and spheno-mandibular ligament
        - Then between 2 roots of auriculotemporal [nerve](#)
        - Enters skull through foramen spinosum to reach middle cranial fossa
          - Divides in to a
            - large frontal branch which courses to pterion
            - Smaller parietal branch
  - Accessory meningeal artery
    - Enters cranial cavity
      - Through foramen ovale
        - Supplies Meninges and structures in infratemporal fossa
  - Inferior alveolar artery
    - Runs downwards and forwards medial to ramus of mandible
      - Reaches mandibular foramen
        - Before entering gives a
          - lingual branch to [tongue](#)
          - Mylohyoid branch that descends in mylohyoid groove
        - Passing through enters mandibular canal
          - In it runs downward and forwards
            - Mental branch passes through mental foramen
- SECOND PART
  - mainly muscular branches
    - Masseteric

- Deep temporal branches ( anterior and posterior )
  - Ascend on lateral aspect of skull **deep** to temporalis **muscle**
- Pterygoid muscles
- Buccal branch supplies skin of cheek
- THIRD PART
  - posterior superior alveolar artery
    - Just before maxillary artery enters pterygomaxillary fissure
    - Descends on posterior surface of maxilla
    - Gives branches that enter canals in bone to supply molar and premolar **teeth**
  - Infraorbital artery
    - Arises just before pterygomaxillary fissure
    - Enters orbit through infraorbital fissure
    - Branches
      - Middle superior alveolar branch- premolar **teeth**
      - Anterior superior alveolar branch- apertures of maxilla to reach incisor and canine **teeth**
  - Greater palatine artery
    - Runs downward in greater palatine canal
    - Emerge on posterolateral part of hard palate
    - Through greater foramen
    - Runs forward near lateral margin of palate
    - Incisive canal
  - Pharyngeal branch
    - Runs backwards through canal
      - Inferior aspect of **body** of sphenoid bone
        - Palatovaginal / pharyngeal canal
    - Supplies part of nasopharynx , auditory tube and sphenoidal **air** sinus
  - Artery of pterygoid canal
    - Runs backwards
    - Supply pharynx , auditory tube and tympanic cavity
  - Sphenopalatine artery
    - Passes medially through sphenopalatine foramen
    - Enters cavity of **nose**
    - Branches
      - Posterolateral nasal branches
        - Lateral wall of **nose** , paranasal sinus
      - Posteromedial branches
        - Nasal septum

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