ANTERIOR TRIANGLE

- Anterior triangle of the neck is bounded by
- Anteriorly by the median plane
- Posteriorly by sternocleidomastoid muscle
- Superiorly by base of mandible & a line joining mandible to mastoid process
• Skin over the anterior triangle is Freely movable
• Superficial fascia contains Platysma, cervical branch of facial nerve, anterior jugular vein & few lymph nodes
Subdivisions of the anterior triangle

- Submental triangle
- Digastric triangle
- carotid triangle
- Muscular triangle
Submental triangle

- Median triangle
- Unpaired triangle
- Boundaries:
  - On each side anterior belly of digastric
  - Base is formed by the body of hyoid bone
  - Apex lies at chin
  - Floor is formed by two mylohyoid muscle & their median raphe
• Contents:
  • 2-4 small lymph nodes
  • Small Submental veins
Digastric triangle

- **Boundaries:**
  - Anteroinferiorly - anterior belly of digastric
  - Posteroinferiorly - posterior belly of digastric & stylohyoid
  - Base - base of mandible & a line joining the angle of mandible to the mastoid process
• **Roof- skin**
  - Superficial fascia containing platysma, cervical branch of the facial nerve & transverse cutaneous nerve of neck
  - Deep splits to enclose submandibular gland

**Floor-** anteriorly by mylohyoid, posteriorly by hyoglossus, still posteriorly by middle constrictor of pharynx
Contents:

• In the anterior part: submandibular gland, facial vein, submandibular lymph node, facial artery, mylohyoid nerve and vessels

• In the posterior part: Parotid gland, external carotid artery before entering to parotid gland, styloglossas, stylopharangeus, glossopharangeal nerve, internal carotid artery, internal jugular vein & vagus nerve
Carotid triangle

- Boundaries:
  - Superiorly- posterior belly of digastric and stylohyoid
  - Anteroinferiorly- superior belly of omohyoid
  - Posteriorly- anterior border of sternomastoid
- Roof-
  Skin, superficial fascia containing platysma, anterior cutaneous nerve of neck, cervical branch of facial nerve
- Investing layer of deep cervical fascia

Floor-
- Thyrohyoid, hyoglossus, middle constrictor & inferior constrictor of pharynx
• Contents:

Arteries- common carotid, internal carotid, external carotid arteries & branches of external carotid artery

Veins: Internal jugular vein, common facial vein, pharangeal vein, lingual, superior thyroid vein
• Nerves: Vagus, superior laryngeal, spinal accessory, hypoglossal & sympathetic chain

• Carotid sheath enveloping CCA, ECA, ICA, IJV & vagus nerve

• Jugulomohyoid & jugulodigastric group of deep cervical group of lymph nodes
Muscular triangle

- Boundaries:
  Anteriorly- anterior midline of the neck from hyoid bone to sternum
  Posterosuperiorly- superior belly of omohyoid
  Posteroinferiorly- anterior border of sternomastoid
• Contents: Infrahyoid muscles namely sternohyoid, omohyoid, sternothyroid & thyrohyoid

• All muscles are supplied by ansa cervicalis except thyrohyoid which is supplied by c1 through hypoglossal
Infrahyoid and Suprahyoid Muscles and their Action
Schema

- Mylohyoid muscle
- Styloid process
- Mastoid process
- Digastric muscle (anterior belly)
- Digastric muscle (posterior belly)
- Geniohyoid muscle
- Thyrohyoid muscle
- Oblique line of thyroid cartilage
- Omohyoid muscle (superior belly)
- Omohyoid muscle (inferior belly)
- Sternohyoid muscle
- Sternothyroid muscle
- Scapula
- Sternum