Parotid Region

[para=around, otic=ear]

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Boundaries of Parotid Region

**Anterior**
- Anterior border of Masseter.

**Above**
- Zygomatic arch.

**Posterior**
- Mastoid process.

**Below**
- An imaginary line joining the angle of mandible with mastoid process.
Parotid Gland
Parotid Gland

- It is the largest salivary gland.

**Location**

- Retromandibular fossa (posterior to ramus of mandible).
Boundaries of Parotid Bed

Anterior-
• Posterior border of ramus of mandible.

Posterior-
• Mastoid process.

Above-
• External acoustic meatus.
• Posterior part of Temporomandibular joint.

Medial-
• Styloid process.
Extension of Parotid Gland

Above-
• To the External auditory meatus.

Below-
• To the upper part of carotid triangle.

Medial-
• To the styloid process.

Anterior-
• Extends over Masseter.

Posterior-
• Overlaps Sternocleidomastoid muscle.
Accessory Parotid Gland

- A part of the forward extension of parotid gland is detached from the rest of the gland and is known as accessory parotid gland.
Capsule of Parotid Gland

- Zygomatic arch
- Tympanic plate
- Styloid process
- Superficial lamina of parotid fascia
- Parotidomasseteric fascia
- Stylomandibular ligament
- Deep lamina of parotid fascia
- Investing layer of deep cervical fascia
Presenting Parts

Shape-
- Three – sided pyramid.
- Apex is directed downwards.

Surfaces- 4
- Superior (Base)
- Superficial
- Anteromedial
- Posteromedial

Borders- 3
- Anterior
- Posterior
- Medial
Relations of Apex

- Apex overlaps the posterior belly of digastric muscle.
Relations of Superior surface (Base)

- Auriculotemporal nerve
- External acoustic meatus
- Superficial temporal artery
- Superficial temporal vein
- Temporal branch of facial nerve
- Transverse facial artery
- Zygomatic branch of facial nerve
- Upper buccal branch of facial nerve
- Accessory parotid gland
- Parotid duct
- Lower buccal branch of facial nerve
- Marginal mandibular branch of facial nerve
- Cervical branch of facial nerve
- Posterior auricular nerve and vessels
- Divisions of retromandibular vein
Relations of Anteromedial and Posteromedial surfaces

**Anteromedial surface**-
- Deeply grooved by posterior border of ramus of mandible.

**Posteromedial surface**-
- Molded onto mastoid and styloid processes.
Structures entering into Posteromediacl surface

- Area for osseous part of external acoustic meatus
- Facial nerve
- Area for styloid process and its attached muscles
- Posterior auricular artery
- External carotid artery
- Superior extension behind mandibular condyloid process
- Area for cartilaginous part of external acoustic meatus
- Area for mastoid process
- Area for posterior belly of digastric
- groove made by anterior border of sternocleidomastoid
- Retromandibular vein
Relations of Anterior and Posterior borders

- Auriculotemporal nerve
- Superficial temporal artery
- Superficial temporal vein
- Temporal branch of facial nerve
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- Upper buccal branch of facial nerve
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Posterior Anterior
Relations of Medial border
Parotid Duct/Stenson's Duct

**Length** – 5 cm

**Direction** - Forwards and slightly downwards on masseter.

- It runs between buccinator and oral mucosa and opens into the vestibule of mouth opposite the crown of upper second molar tooth.
Parotid Duct/Stenson's Duct contd...

- It pierces:
  1. buccal pad of fat
  2. buccopharyngeal fascia
  3. buccinator muscle
  4. buccal mucosa
Structures within Parotid gland

- Temporal branches
- Zygomatic branches
- Parotid duct
- Buccal branches
- Buccinator
- Masseter
- Marginal mandibular branches
- Cervical branches
- Transverse facial artery and vein
- Superficial temporal artery and vein
- Maxillary artery and vein
- Posterior auricular artery
- Parotid gland
- External jugular vein
- Facial nerve (CN VII)
- Retromandibular vein
- External carotid artery
Lobes of Parotid Gland
&
Patey’s Fasciovenous Plane
Frey’s Syndrome

Normal

Frey's syndrome

- Sympathetic
- Parasympathetic
- Sensory
- Mixed
- Sweat glands
- Parotid
Thank you