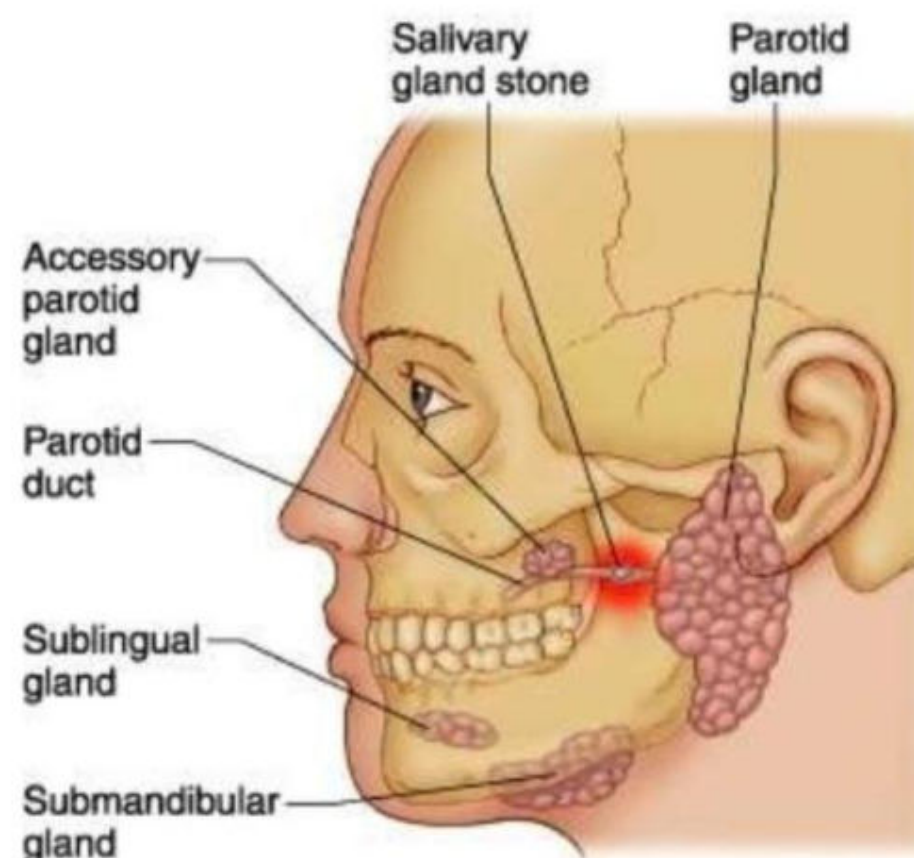


# Parotid Gland And Tumour

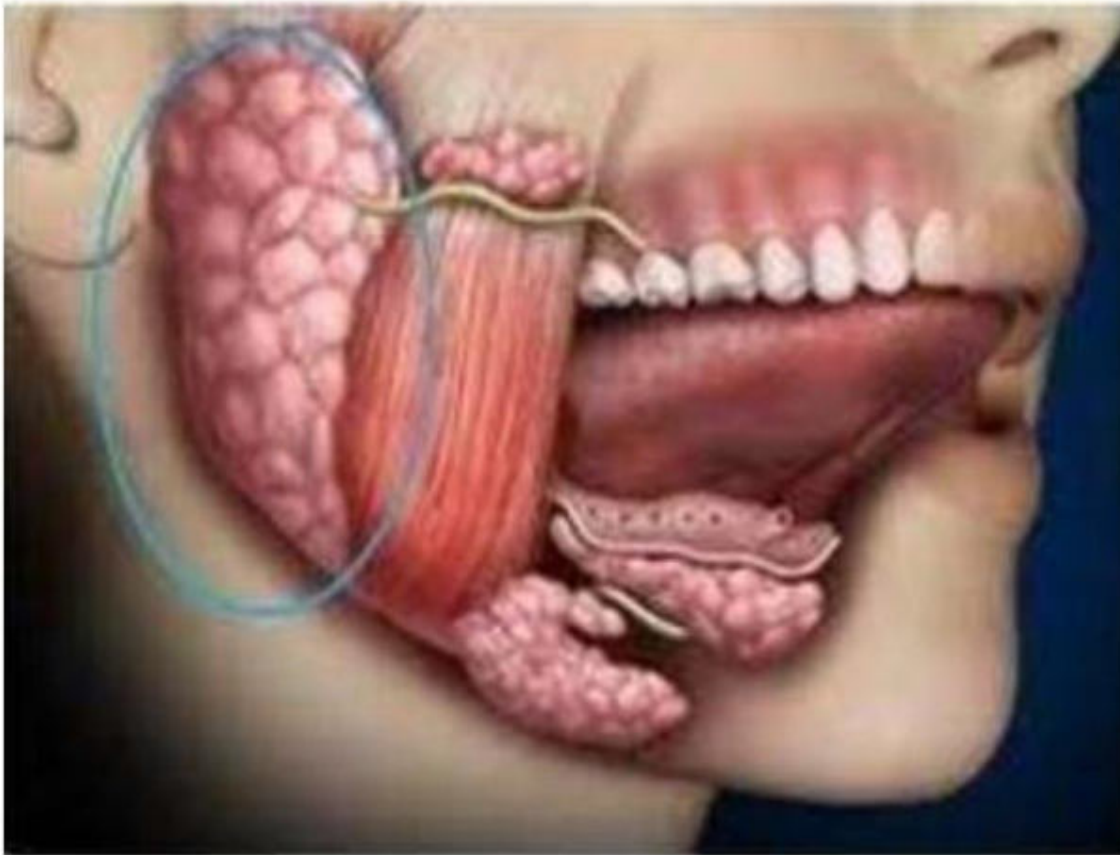
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## Salivary Glands

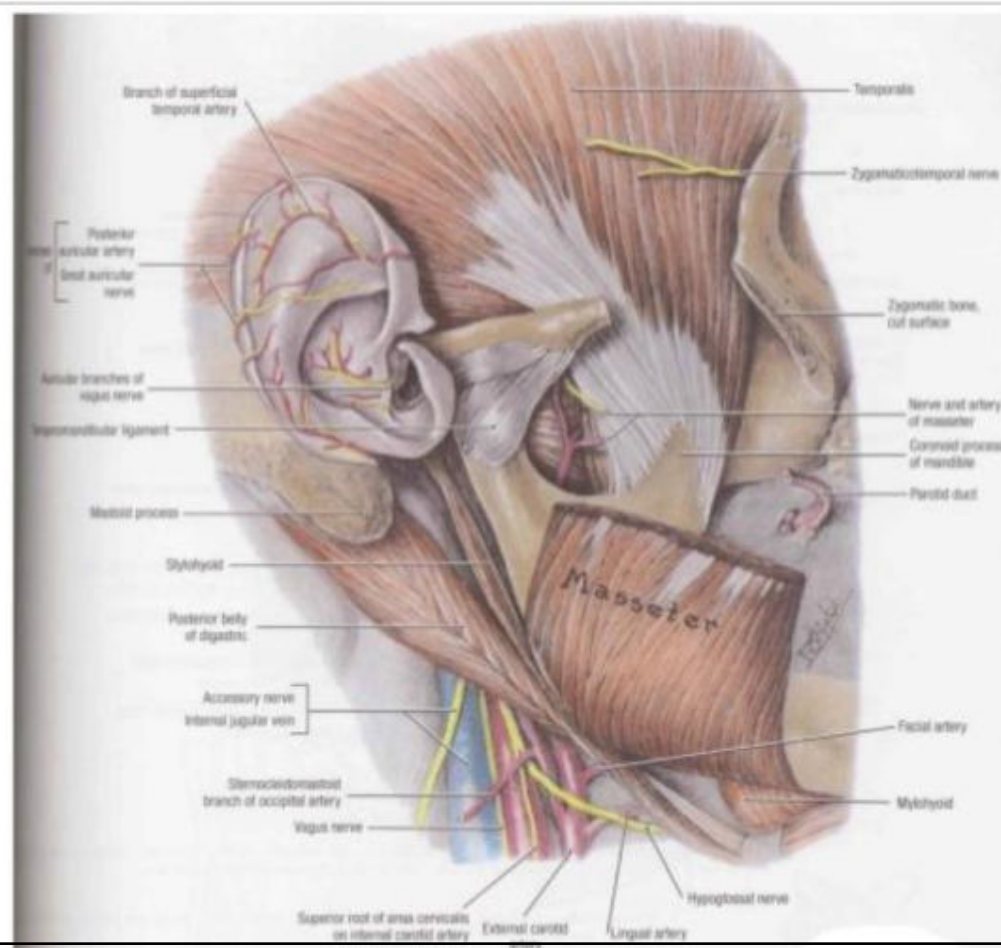
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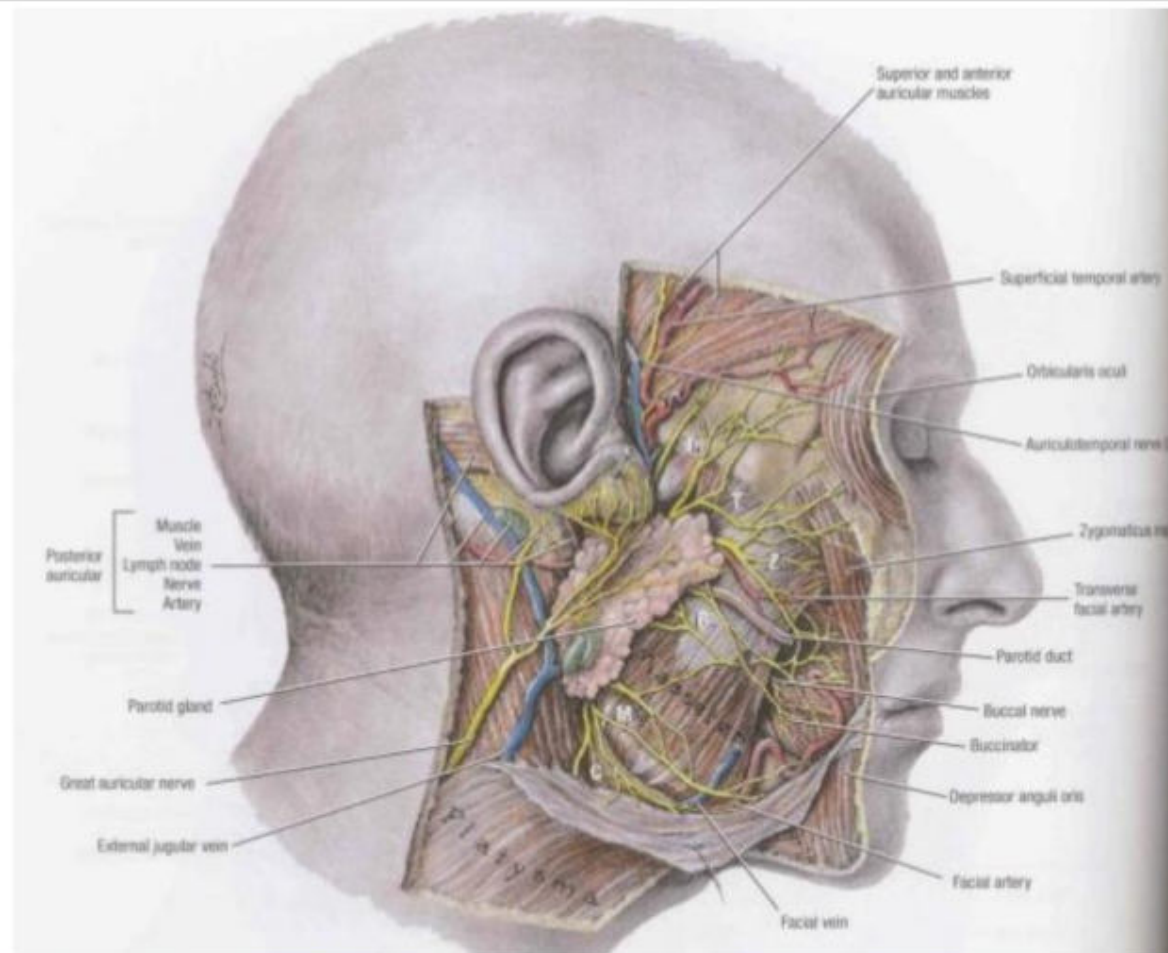
# Parotid Gland



# Parotid Space



# Parotid gland



## Facial Nerve- “Pes Anserinus”

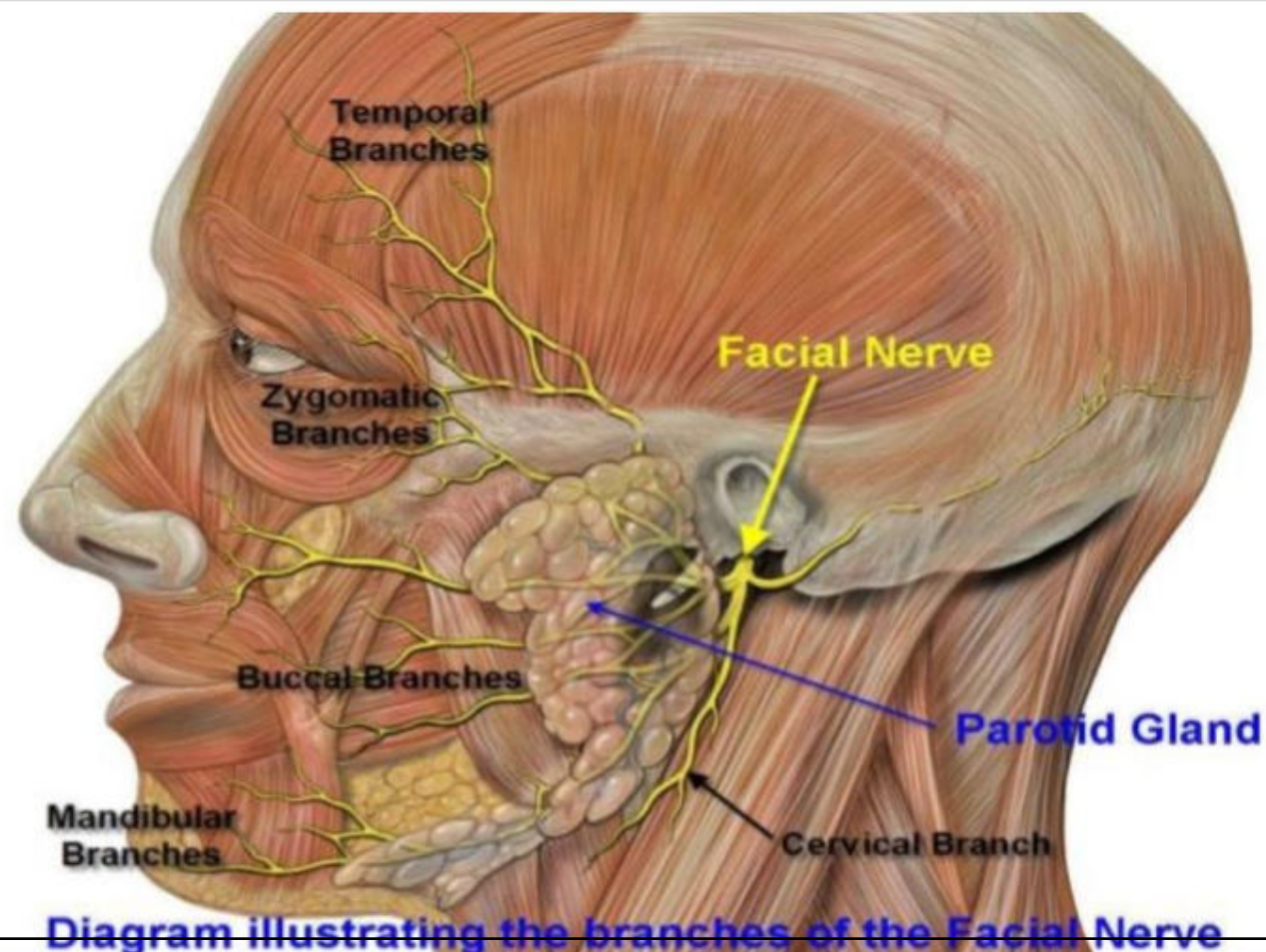
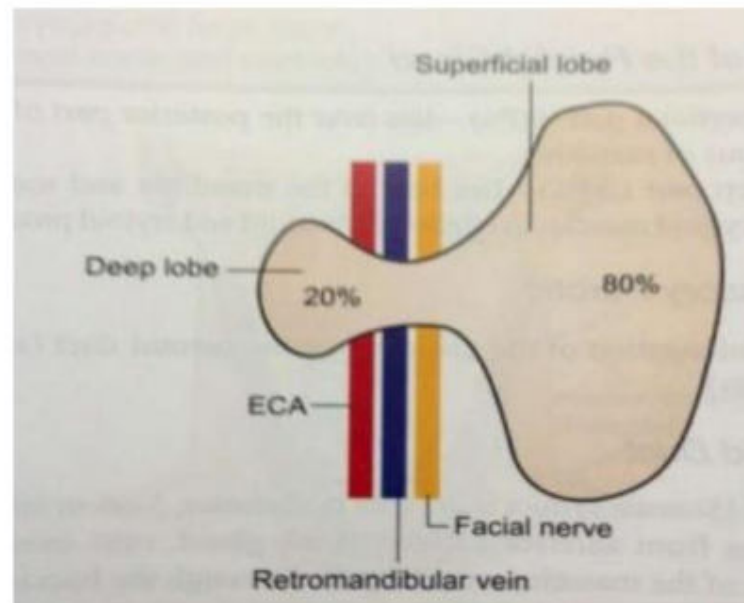
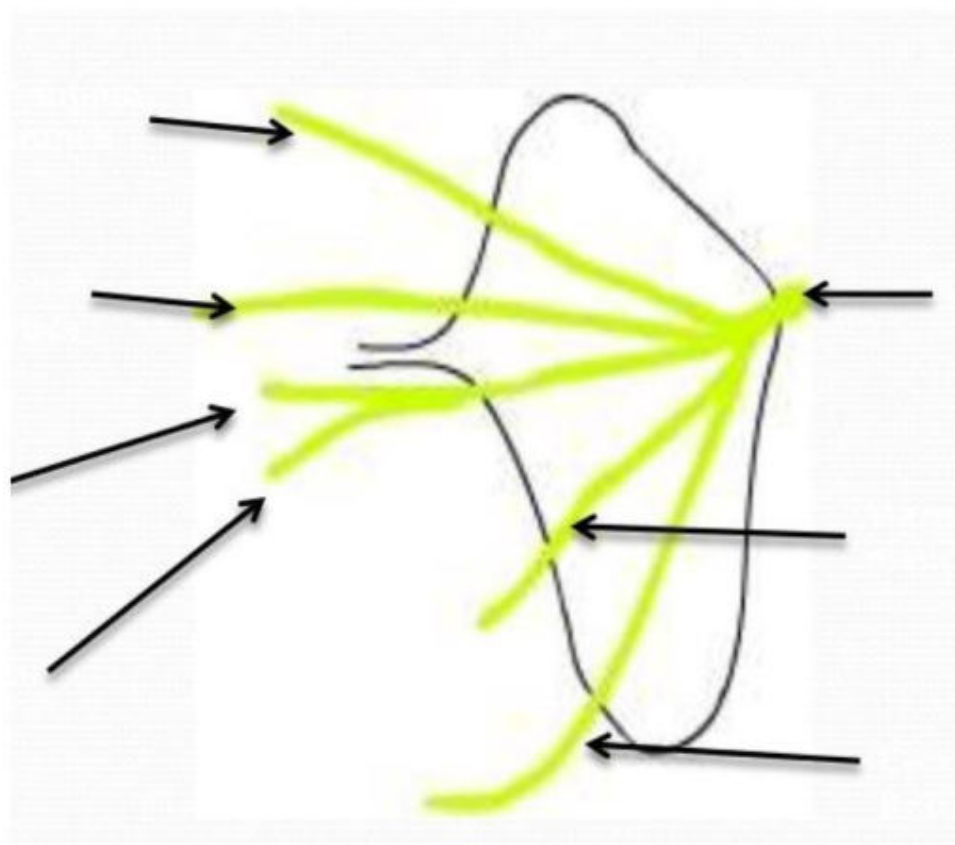


Diagram illustrating the branches of the Facial Nerve

# Facio-venous plane of PATEY

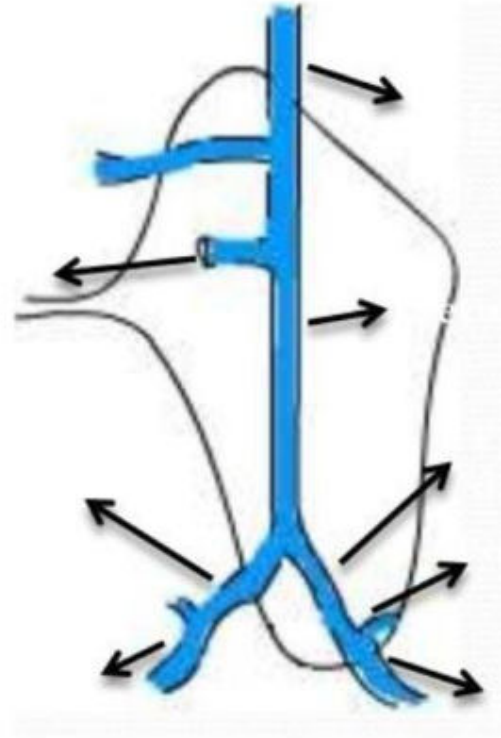


Identify the sketch.....



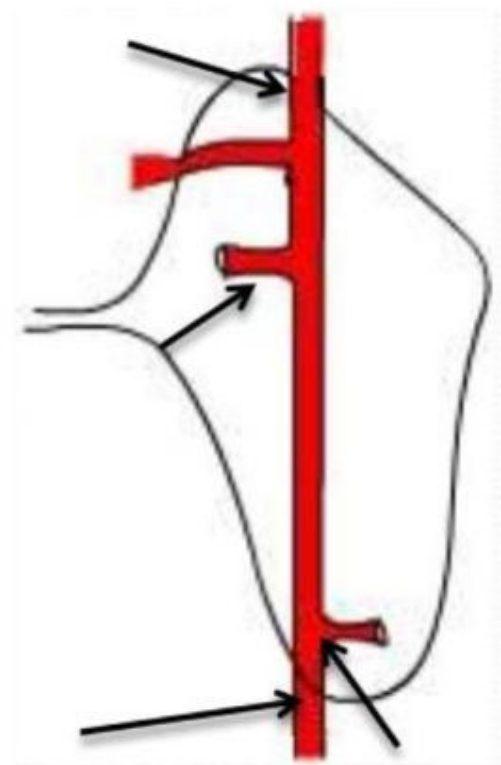
# Identify the sketch.....

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# Identify the sketch.....

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# Parotid tumors

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## BENIGN

- Pleomorphic adenoma
- Warthin's tumor

## MALIGNANT

- Mucoepidermoid carcinoma
- Adenoid cystic carcinoma
- Acinic cell carcinoma
- Adenocarcinoma
- Squamous cell carcinoma

# Pleomorphic adenoma

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- Also k/a "Mixed Tumor"
- Most common benign tumor of salivary glands- 80%
- Neoplastic proliferation of glandular tissue with myoepithelial component
- Distribution:  
Parotid(84%) > submandibular(8%) > lingual(0.5%)
- F:M= 3:1

# Clinical presentation

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- .Smooth firm lobulated mobile swelling
- .Commonly arise near the tail of parotid
- .In superficial part



## Clinical presentation.....

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- .If tumor present in Deep Lobe
  - Extend through stylomandibular tunnel
  - Pushes tonsils, pharynx and uvula
  - Pressure effect may cause dysphagia

# Long term sequel- Malignant change

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- .Recent increase in size
- .Pain- cause
  - Capsular distention
  - Salivary duct obstruction
  - Infiltration of nerve
  - Tumor necrosis
- .Nodularity
- .Involvement of skin, lymph nodes, facial nerve and masseter muscle
- .Restriction of jaw movement

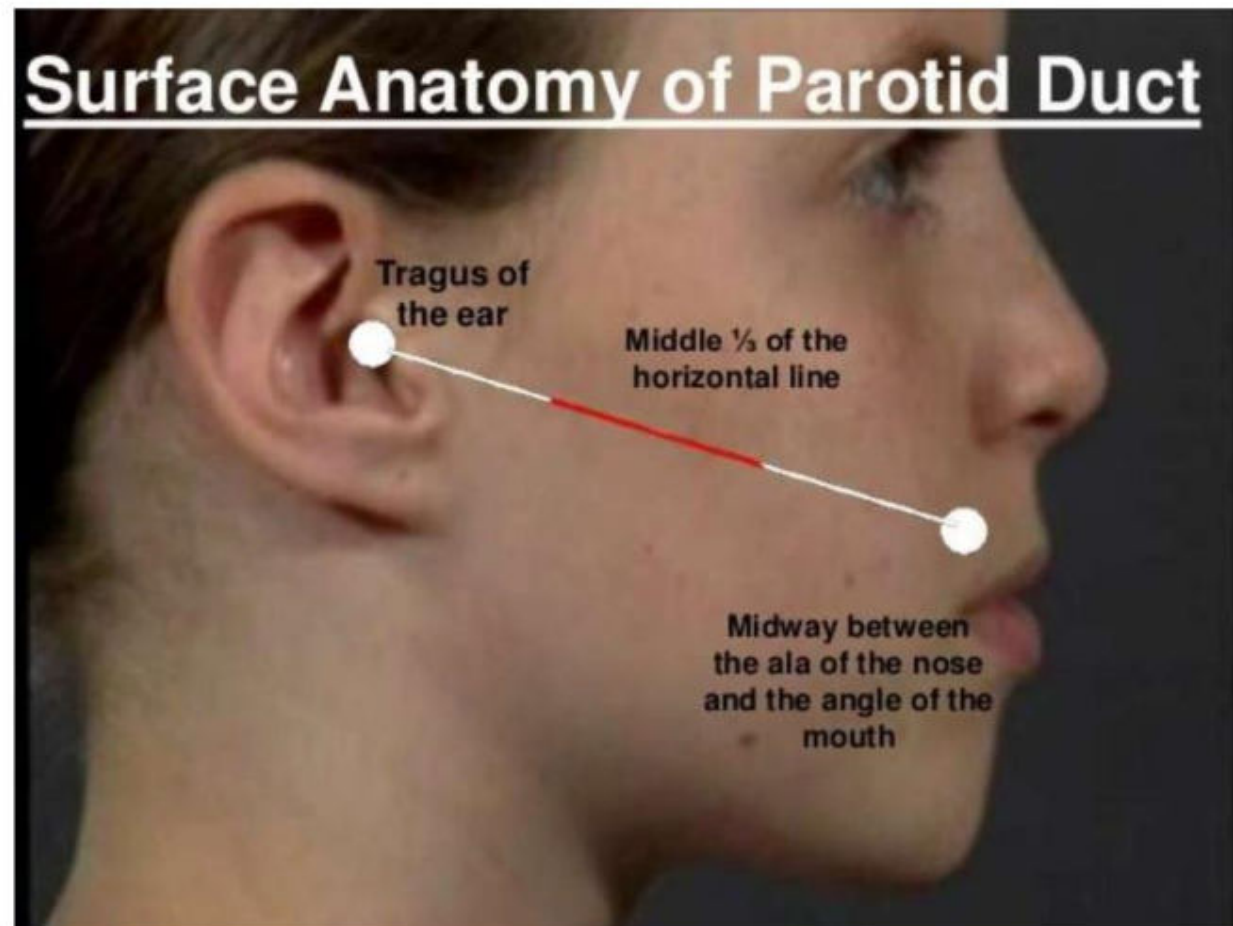
## Clinical examination

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- .Smooth firm lobulated mobile swelling
- .Positive curtain sign
- .Lifted ear lobule
- .Involvement of facial nerve- palsy
- .Bimanual palpation- for deep lobe
- .Opening of the stensons duct

# Parotid duct palpation

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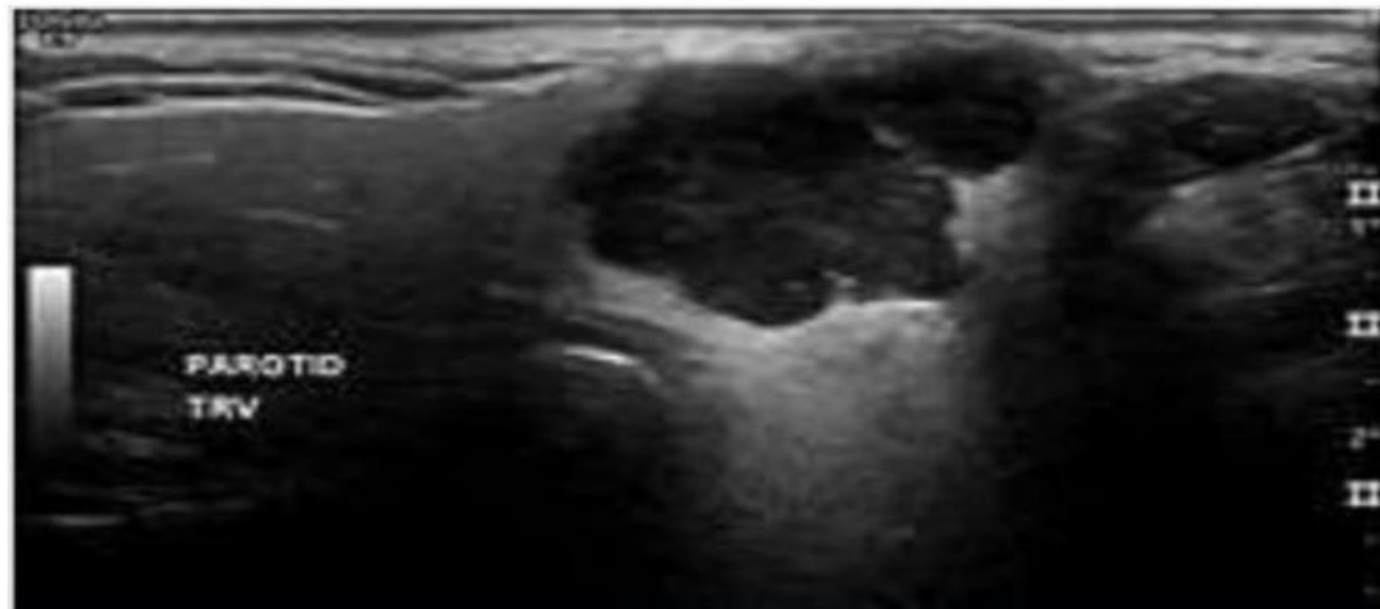
## Diagnosis

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- . Fine needle aspiration cytology
- . Core needle biopsy
- . Ultrasonography
- . CT scan
- . MRI scan

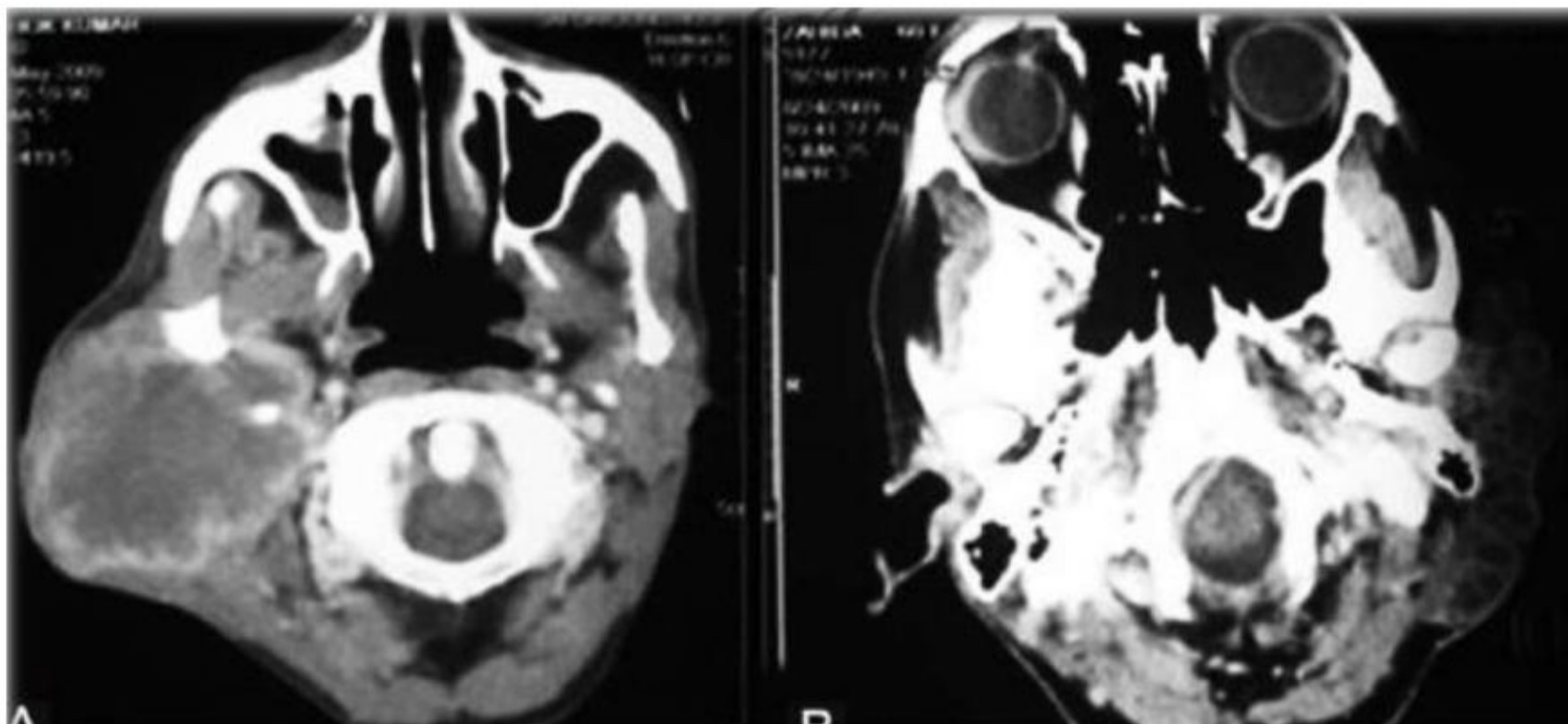
# USG- hypoechoic lobulated lesion

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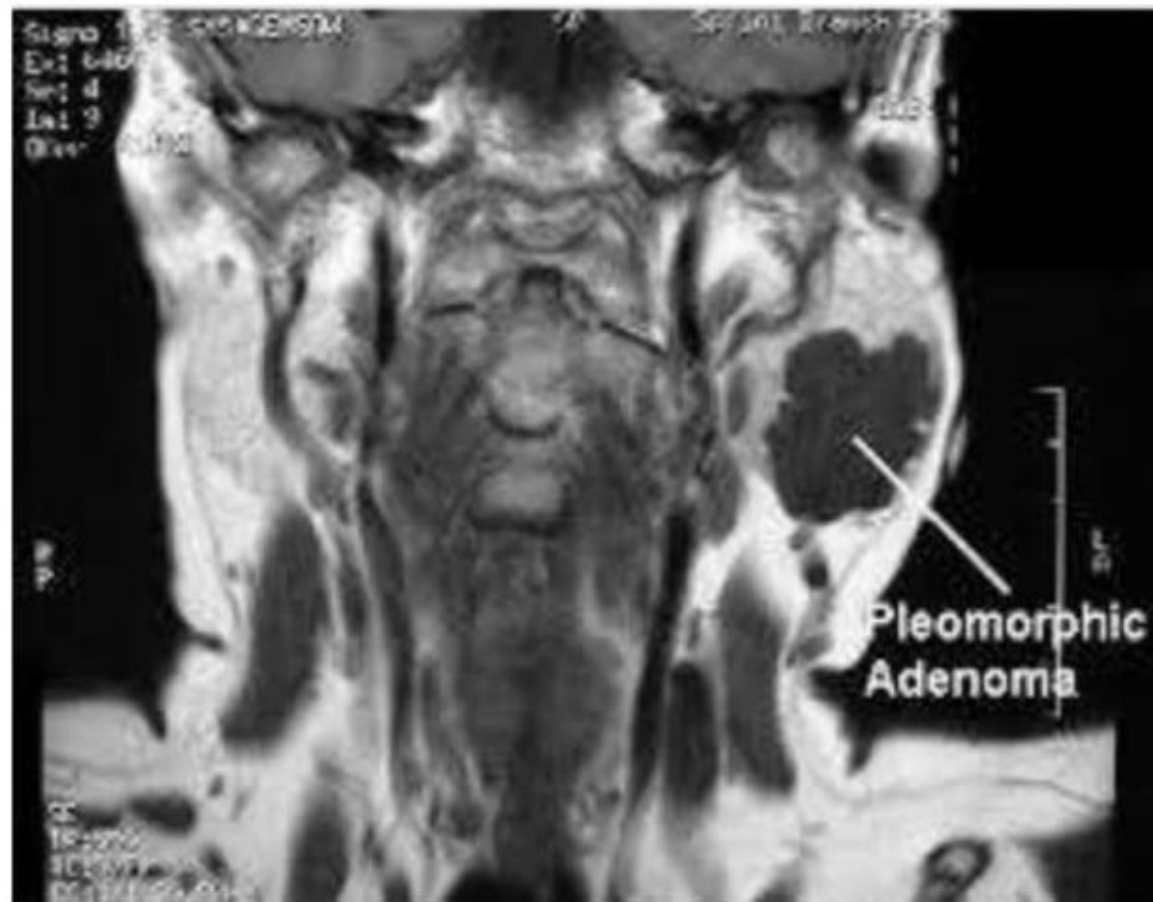
## CT scan

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# MRI scan

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## Management

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- .Surgical excision of tumor
  - Superficial parotidectomy - PATEY'S operation
  - Total parotidectomy
- .Complication:
  - Facial nerve injury
  - Recurrence 5-50%

# Warthin's tumor

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- Also k/a Adenolymphoma or Papillary Cystadenolymphomatosum
- Benign tumor occur in only parotid gland.
- 2<sup>nd</sup> MC benign tumor
- Bilateral 10-15%
- M:F= 4:1
- Association:
  - Cigarette smoking
  - Irradiation

## Warthin's tumor.....

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- Often multicentric
- Typically heterogenous on imaging ie having cystic component frequently
- On *T-99 pertechnetate scan*- “Hot spot” due to high mitochondrial content, a characteristic feature.
- Management:
  - Excision of tumour
  - Risk of recurrence –nil
  - No malignant change

# Mucoepidermoid tumor

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- .Commonest malignant tumor
- .Most common in parotid gland
- .Etiology: radiation
- .Early stage- painless gradually progressive mass
- .Later on- may involve facial nerve
- .On the basis of cellular characteristic: 3 grade
  - Low grade
  - Intermediate grade
  - High grade

## Mucoepidermoid tumor.....

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- .Management:
  - .Low grade –
    - WLE or superficial parotidectomy
  - .High grade-
    - Radical parotidectomy with neck node dissection and adjuvant therapy

# Adenoid cystic carcinoma

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- .Slow growing high malignant tumor
- .High affinity to perinural extension
- .Management:
  - Radical parotidectomy with adjuvant ch
  - Fast neutron therapy

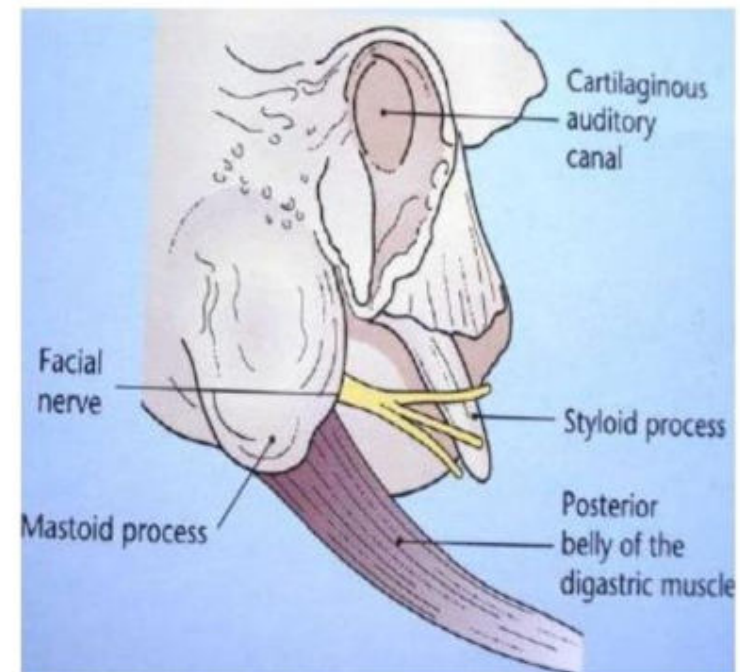
## Parotid surgery

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- .Superficial Parotidectomy
- .Total Conservative Parotidectomy
- .Radical Parotidectomy

# Intraop- identification of facial nerve

- Tragal Pointer of CONLEY'S- tip of inferior portion of cartilaginous canal
- Tracing the tendinous insertion of posterior belly of digastric muscle
- Nerve just lateral to styloid process
- Hamilton bailey technique- tracing from distal to proximal
- By use of nerve stimulator



## Indication of facial nerve sacrifice

- . Preoperative weakness or paralysis of nerve
- . Evidence of gross invasion
- . Tumor transgressing from superficial to deep part

# Complication of parotidectomy

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- .Facial nerve injury
- .Haemorrhage
- .Salivary fistula
- .Flap necrosis
- .Frey's syndrome
- .Injury to great auricular nerve

## Frey's syndrome

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### Nerve supply

- .Parasympathetic:
  - Secreto-motor- from otic ganglion – postganglionic fibre via auriculo-temporal nerve
- .Sympathetic:
- .Sensory:
  - Great auricular nerve – to parotid fascia

# Frey's syndrome.....

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## After injury

- secretomotor fibres from auriculotemporal nerve grow out
- joins with distal end of great auricular nerve.
- Also k/a “Gustatory Sweating”

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