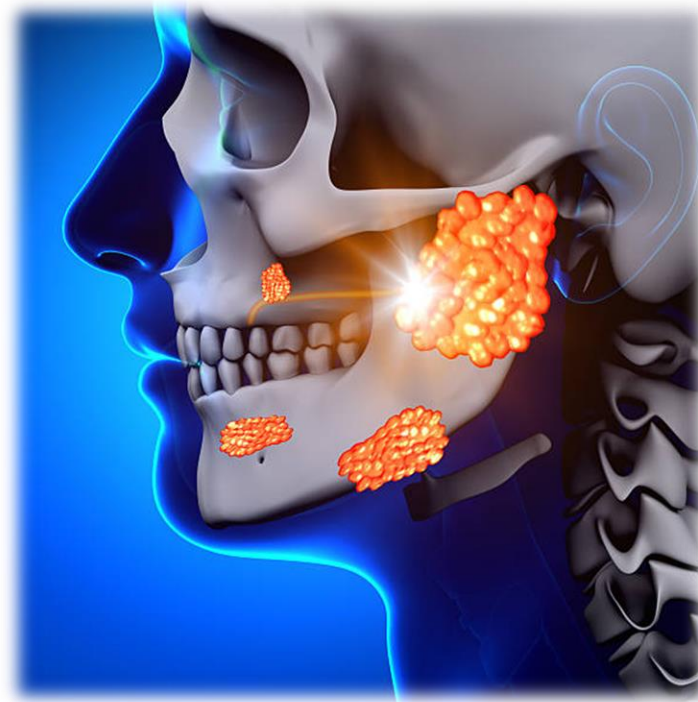


Salivary gland tumors



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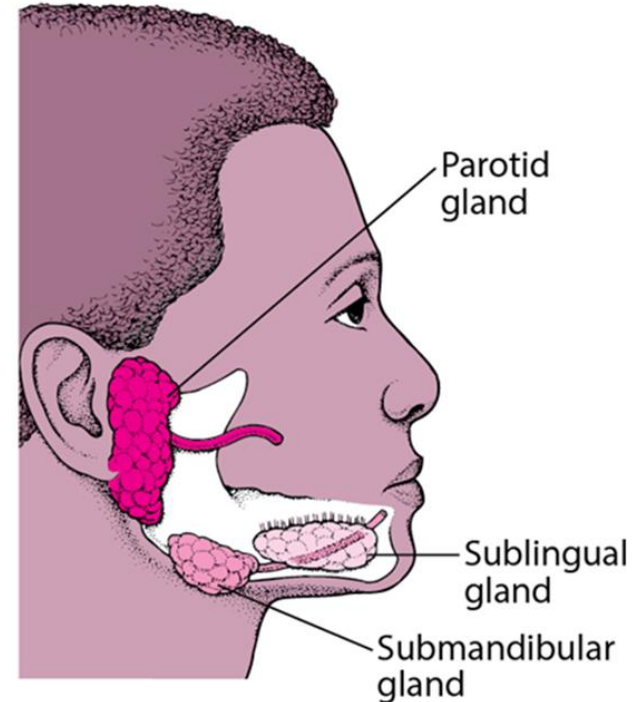
Salivary Glands

There are four main salivary glands

- Two submandibular glands
- Two parotid glands

There are multiple minor salivary glands

- Two sublingual glands
- Other



Classification

Epithelial
tumors



- Benign tumors
- Malignant tumors

Non epithelial
tumors



- Haemangioma
- Lymphangioma

Malignant
lymphomas



- Non Hodgkins lymphoma



Epithelial tumors

```
graph TD; A[Epithelial tumors] --> B[Benign]; A --> C[Malignant]; B --> D["• Pleomorphic adenoma<br/>• Monomorphic adenoma<br/>• Adenolymphoma"]; C --> E["• Mucoepidermoid carcinoma<br/>• Adenoid cystic carcinoma"]
```

Benign

- Pleomorphic adenoma
- Monomorphic adenoma
- Adenolymphoma

Malignant

- Mucoepidermoid carcinoma
- Adenoid cystic carcinoma



Classification

Parotid gland
tumors- 80%

Submandibular
gland tumors- 15%

Minor salivary gland
tumors- 5%

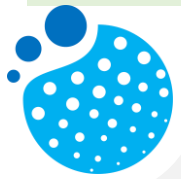


Parotid gland tumors

- Most common site for salivary tumors
- Tumors of superficial lobe -Present as slow growing painless swellings below the ear, in front of the ear or in the upper aspect of the neck
- Accessory lobe tumors- Persistent swellings within the cheek
- Rarely tumors from the deep lobe



- 80%-90% are benign
- 80% from benign are pleomorphic adenoma
- Malignant tumors
 1. Low grade malignant tumors
 2. High grade malignant tumors



Submandibular gland tumors

- Uncommon
- Present as a slow-growing, painless swelling within the submandibular triangle
- 50% of submandibular gland tumors are benign



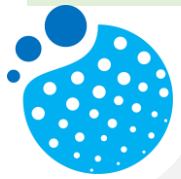
Sublingual gland tumors

- Extremely rare
- 85% are malignant
- Present as a hard or firm painless swelling in the floor of the mouth



Minor salivary gland tumors

- Histologically similar to those of major glands
- 90% of minor salivary gland tumors are malignant
- Benign -painless, firm, slow-growing swellings
- Malignant - firm consistency, and the overlying mucosa may have a varied discoloration from pink to blue or black
- Common sites -upper lip, palate and retromolar regions



Mucoepidermoid tumors

- Most commonly occurring malignant neoplasm of the parotid gland
- Second most common malignant neoplasm of the submandibular gland
- Contain two types of cells- mucous and epidermoid cells
 - ✓ Low grade
 - ✓ Intermediate grade
 - ✓ High grade



Clinical features of Malignant Salivary Tumours

- Facial nerve weakness
- Rapid enlargement of the swelling
- Induration and/or ulceration of the overlying skin
- Cervical node enlargement



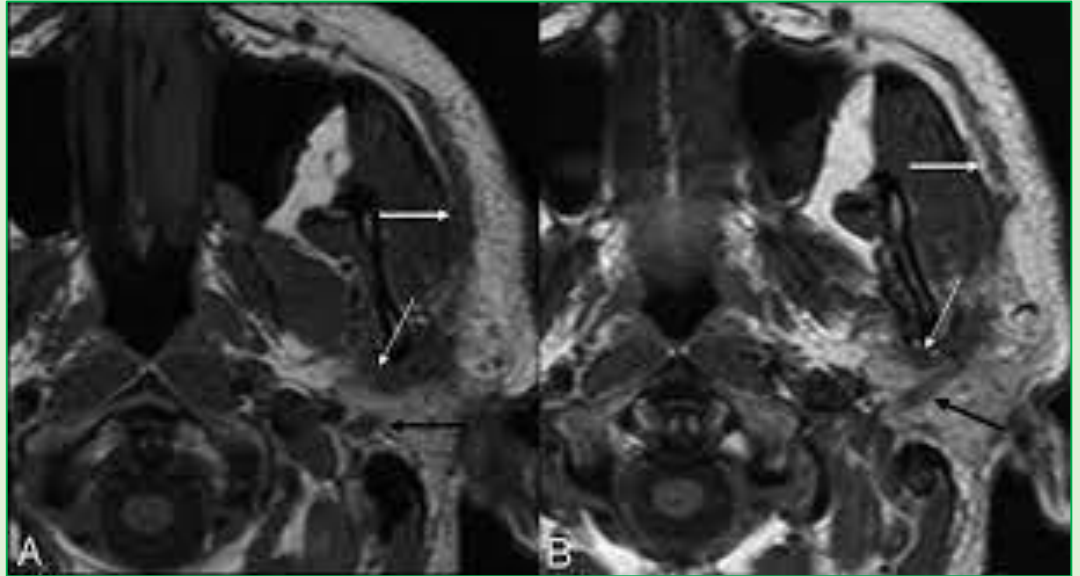
Pleomorphic adenoma

- The most common salivary gland tumor
- 60% of parotid tumors
- 36% of submandibular tumors
- Slow growing
- Smooth, multilobular, and encapsulated



Investigations

- CT
- MRI
- FNAC



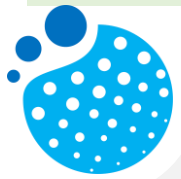
- **Open surgical biopsy is contraindicated**



Treatment

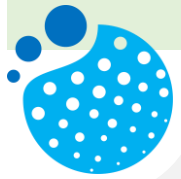
Parotid gland

- **Tumors in superficial lobe** - Superficial parotidectomy
- **High grade malignant tumors** - Radical parotidectomy
- **Low-grade malignant tumors** - Superficial parotidectomy



Complications of parotid gland surgery

- Haematoma formation
- Infection
- Temporary facial nerve weakness
- Transection of the facial nerve and permanent facial weakness
- Sialocoele
- Facial numbness
- Permanent numbness of the ear lobe associated with great auricular nerve transection
- Frey's syndrome



Submandibular gland

- **Small tumors-** Intracapsular submandibular gland excision
- **Large benign tumors-** Suprahyoid neck dissection, preserving the marginal mandibular branch of the facial nerve, lingual nerve and hypoglossal nerves
- **Malignant tumors-** Modified neck dissection or radical neck dissection



Sublingual gland tumor

- Wide excision involving the overlying mucosa
- Simultaneous neck dissection
- Immediate reconstruction of the intraoral defect



Minor salivary gland

- **Tumors of the upper lip** - Excision to include the overlying mucosa
- **Tumors of the palate**
 - Less than 1 cm in diameter - Excisional Biopsy
 - Greater than 1 cm in diameter- Incisional Biopsy
- **Malignant** - wide excision which may involve partial or total maxillectomy.



Prognosis (malignant tumors)

Survival rates for the various tumor stages

- **Stage I - 97%**
- **Stage II - 81%**
- **Stage III - 56%**
- **Stage IV - 15%**



- **Low-grade tumors** - 10-year survival rates of 80-95%
- **High-grade tumors**- 10-year survival rates of 25-50%

- **Low-grade tumors** - Acinic cell carcinoma
Low-grade mucoepidermoid carcinoma
- **High-grade tumors** - Adenoid cystic carcinoma
High-grade mucoepidermoid carcinoma
 - Squamous cell carcinoma
 - Adenocarcinoma

