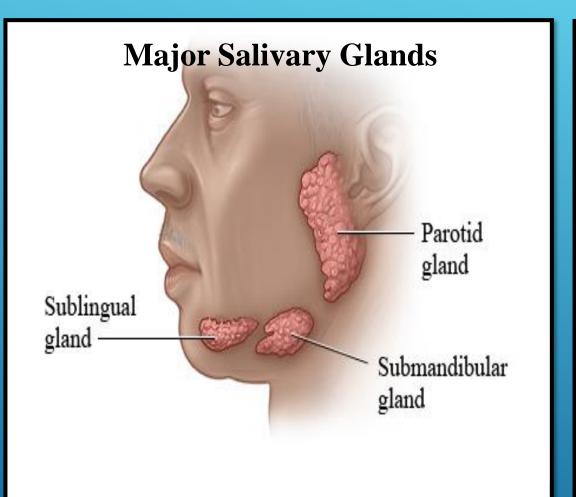
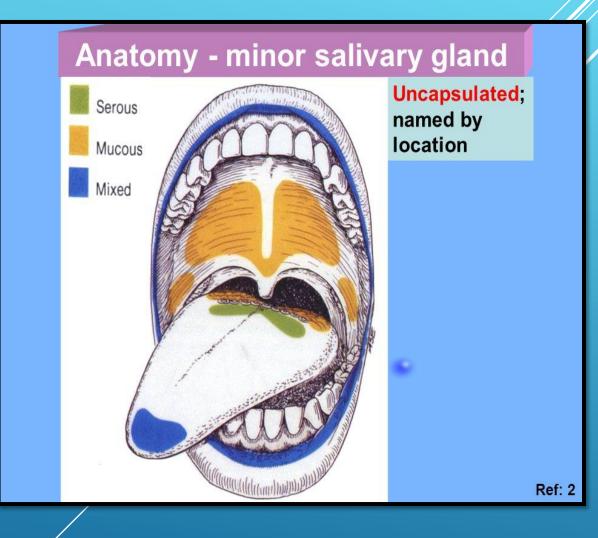
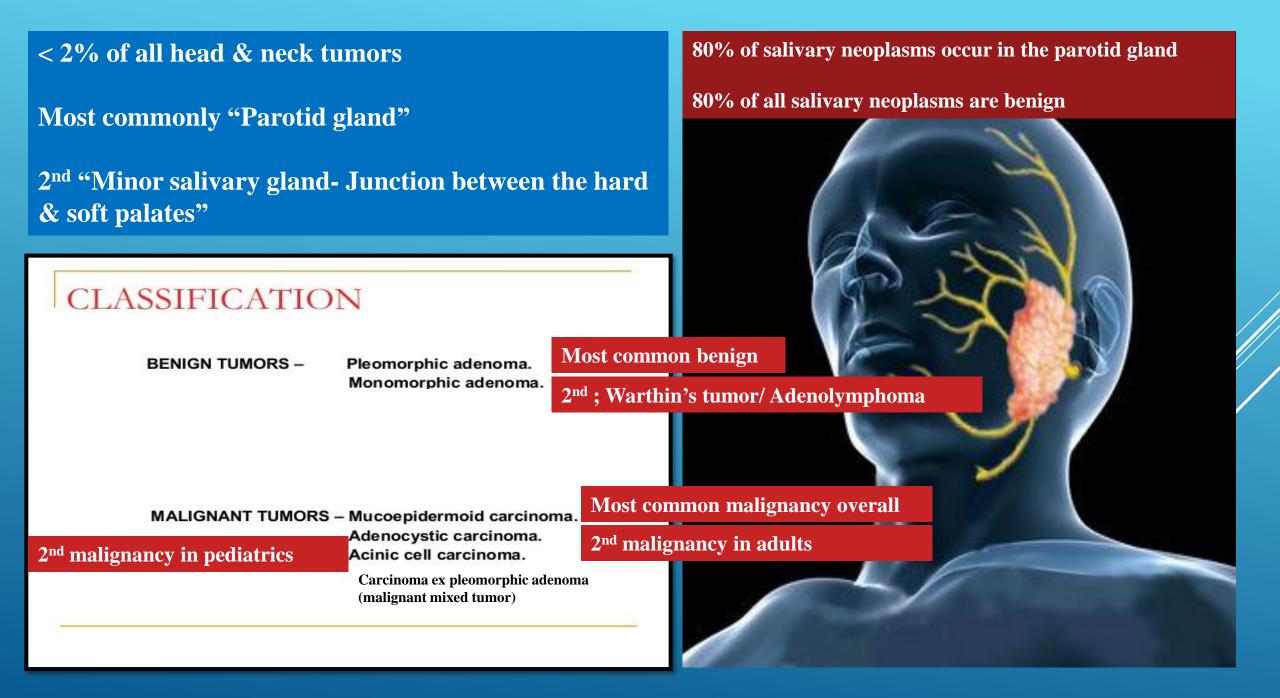
Salivary Gland Neoplasms

Dr. Sohail Bakkar Asst. Prof. of Endocrine Surgery The Hashemite University







| Salivary Gland | Malignancy Rate | Incidence of Tumor |
|-----------------------|--------------------|-----------------------|
| Parotid | 20% | 80% |
| Submandibular | 50% | 15% |
| Sublingual & Minor | 70% | 5% |

Pleomorphic adenoma

Most commonly occurs in the parotid gland; Warthin's tumor occurs exclusively in the parotid

Asymptomatic, well-circumscribed & slow-growing

Young and middle-aged adults

Slight male predominance

Rubbery-hard, does not fluctuate and of limited mobility ≠ lymph node

Risk of malignancy is < 5%

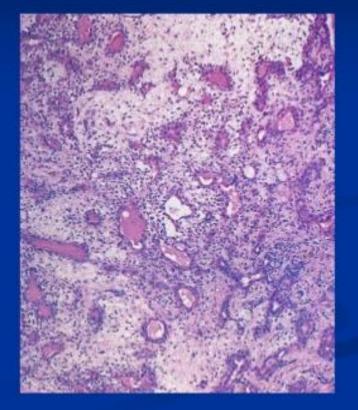


Pleomorphic adenoma of the left parotid gland with a round, painless, rubber-like swelling over the left ramus region below the ear, covering the lower border of the mandible near the

Pleomorphic Adenoma

Histology

- Mixture of epithelial, myopeithelial and stromal components
- Epithelial cells: nests, sheets, ducts, trabeculae
- Stroma: myxoid, chrondroid, fibroid, osteoid
- No true capsule
- Tumor pseudopods



SURGERY

PAROTID GLAND:

•<u>Superficial parotidectomy</u>: Implies complete removal of the parotid gland superficial to the plane of the facial

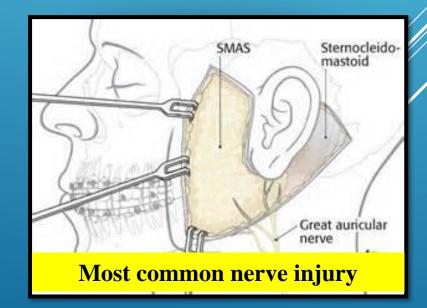
nerve Patey's procedure

- minimum standard surgical procedure. **Pseudopods**
- "treatment of choice" for tumors in the superficial lobe, which are not involving the facial nerve.
- avoid enucleation and excision biopsy because it greatly increases the likelihood of recurrence (up to 80%) and nerve damage

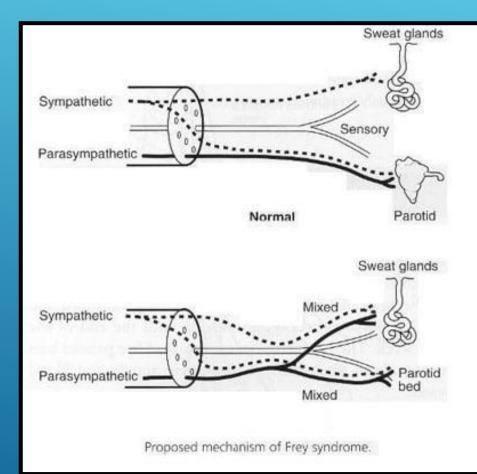
Lesions involving the deep lobe: conservative parotidectomy "preserving all named branches of the facial nerve"



Transient Facial palsy 40%



Frey's Syndrome / Auriculotemporal Syndrome / Gustatory Sweating & Flushing







Warthin's Tumor

 Warthin's tumor (benign papillary cystadenoma lymphomatosum)

Unique neoplasm occurs exclusively in parotid gland consist of (epithelial +lymphoid

Above the age of 50 years

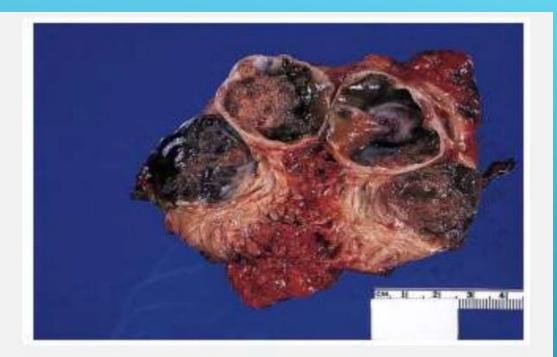
Historically more common among males Recently: more common among females / Cigarette smoking Soft and fluctuant Most common location: inferior pole of superficial lobe (parotid tail) Multifocality/ Bilaterality 10% Risk of malignancy 0.3%



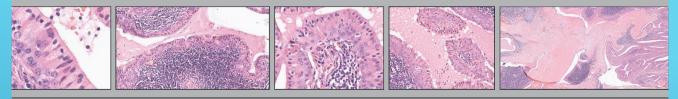
MANAGEMENT

- Tumor is RADIO RESISTANT
- SURGERY :
- ENUCLEATION –avoided. High recurrence.
- TOC : SUPERFICIAL PAROTIDECTOMY PATEY'S OPERATION(if supf lobe alone involved)
- TOTAL CONSERVATIVE PAROTIDECTOMY (If both lobes involved)

FACIAL NERVE IS PRESERVED



Gross appearance of Warthin tumor of parotid gland. The presence of multiple large cystic spaces is characteristic of this lesion.

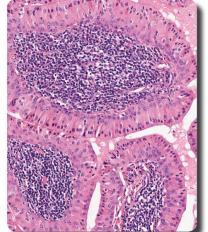


WARTHIN'S TUMOR : Key Histologic Findings

A

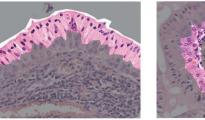
S

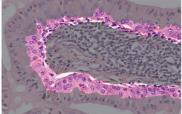
PAPILLARY ARCHITECTURES – the prominent WT papillary projections consist of two **oncocytic** epithelial layers overlying a lymphoid stroma with a fibrovascular core.



OUTER ONCOCYTIC (LUMINAL) LAYER these ciliated, columnar cells display pseudostratified nuclei, with plump, abundant amounts of eosinophilic cytoplasm (due to the mitochondria present)

INNER ONCOCYTIC LAYER - Compressed, cubloidal cells lie just over the lymphoid stroma. The eosinophilic cells have less cytoplasm than their more luminal neighbors





FIBROUS CAPSULE (Not PICTURED) – Warthin's Tumor generally exhibits a well formed fibrous capsule separating the lesion from surrounding salivary tissues.

O LUMINAL SECRETIONS (Not PICTURED)- Eosinophilic secretions will collect within the luminae of the tumor

No consensus on most appropriate treatment

Enucleation is considered acceptable

Approach

MRI "imaging study of choice"

FNAC or US-FNAC

"Do not cut into a parotid lump due to the significant risk of implantation and recurrence"

Tru-cut biopsy and wedge biopsy are contraindicated

