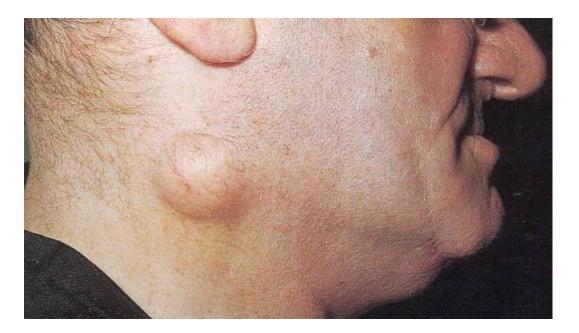
# PBL-X

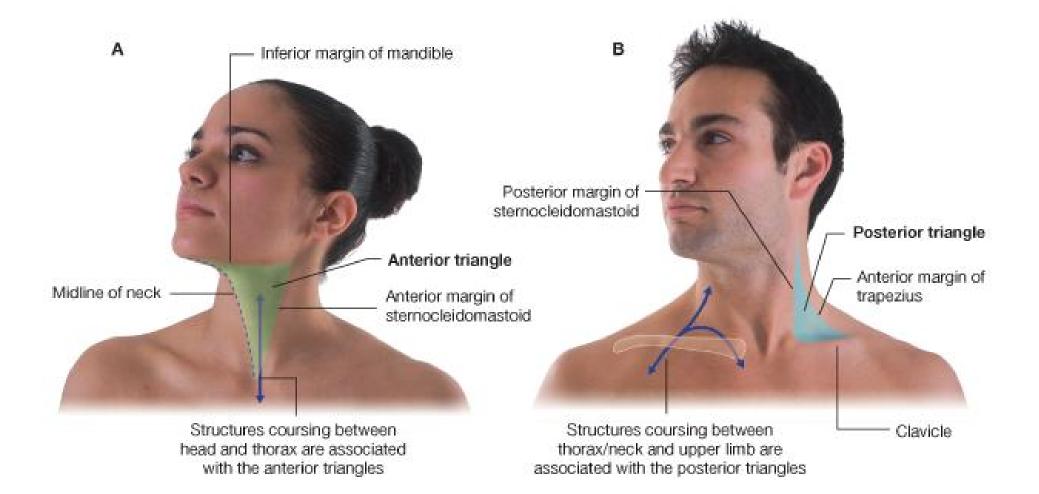
#### Zuhir Bodalal Libyan International Medical University www.limu.edu.ly

## Disclaimer

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# Neck Lump





#### Classification

# By Site

- Midline neck lumps
- Lateral neck lumps
- Supraclavicular neck lumps

## Midline neck lumps

- Thyroid
- Thyroglossal cyst
- Lymph node
- Dermoid

### Lateral neck lumps

- Lymph node
- Branchial cyst
- Submandibular gland
- Parotid
- Glomus tumours
- Carotid body tumours

## Supraclavicular lumps

- Lymph nodes
- Usually from below the clavicle

# By Etiology

- Congenital neck lumps
- Inflammatory neck lumps
- Neoplastic neck lumps

# Congenital neck masses

- 1. Thyroglossal Cyst (most common)
- 2. Branchial Cyst.
- 3. Dermoid.
- 4. Hamartoma.
- 5. Teratoma.
- 6. Lipoma.
- 7. Laryngocele.
- 8. Diverticulum.
- 9. Cystic Hygroma.

# THYROGLOSSAL CYST

- Fibrous cyst that forms from a persistent thyroglossal duct
- Most common congenital neck mass
- Childhood
- Midline mass
- Elevated with tongue protrusion
- Painless (if infected à painfull)
- Smooth and cystic

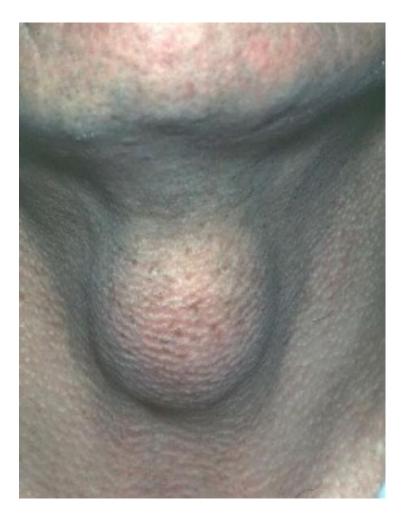
#### **Presentations:**

- Dysphagia.
- Breathing difficulty.
- Dyspepsia especially if large mass.



#### Rx:

• Total resection with central part of hyoid bone to avoid recurrence.





#### **Branchial Cyst**

- Remnants of embryonic development
- Result from failure of obliteration of the branchial cleft
- Cystic mass
- Develops under the skin between SCM & pharynx.

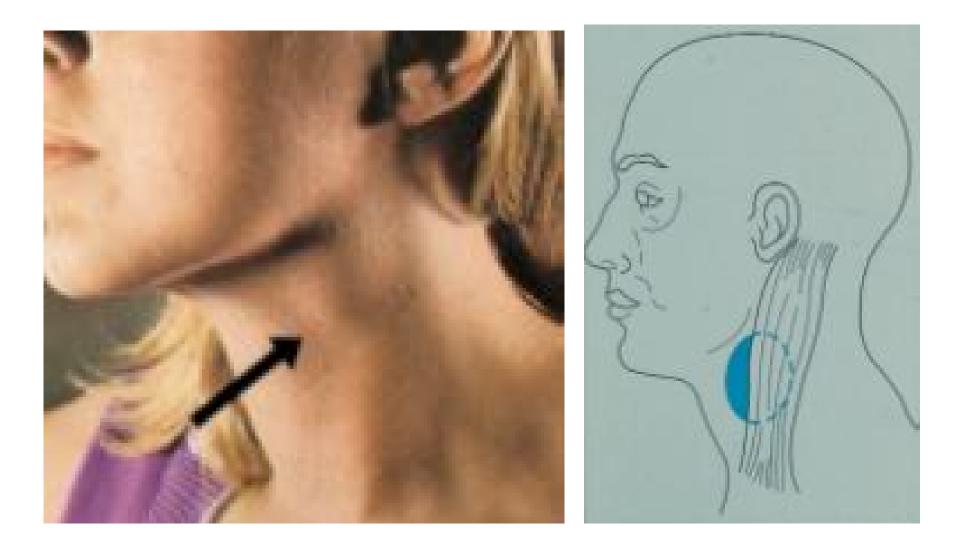
#### Presentation:

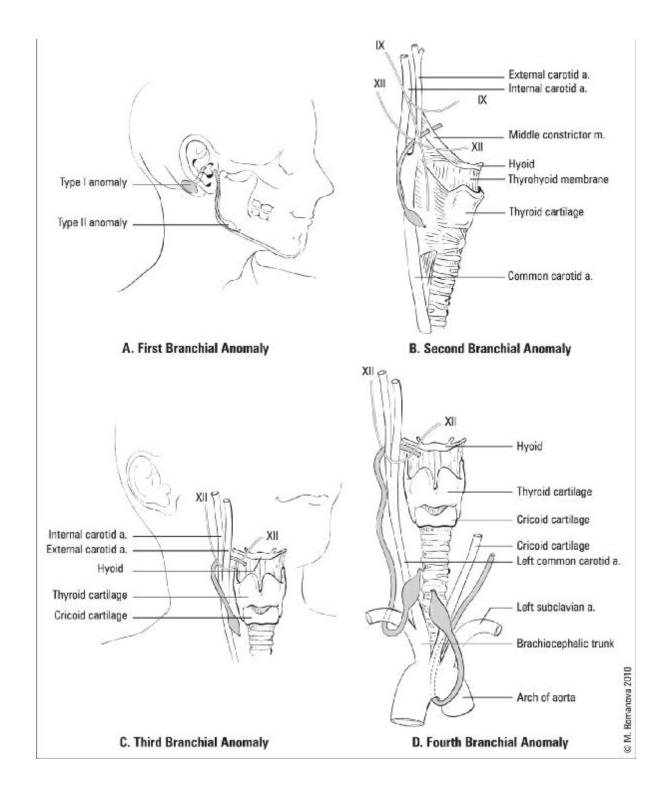
- Asymptomatic (mostly)
- Painful if become infected.

Rx:

- Surgical excision
- Complete surgical excision may be difficult, so they can recur.

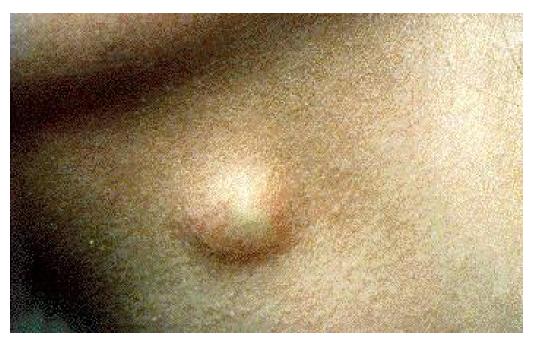






# Dermoid cyst

- Cystic teratoma
- Contains mature skin complete with hair follicles and sweat gland. sometimes clumps of hair, and often pockets of sebum, blood, fat.
- Almost always benign and rarely malignant.
- Midline mass
- Not move with protruding the tongue
- Solid or hard in consistency.
- Usually limitted to the skinRx:
- Complete surgical removal.





### Ranula

- Cystic swelling floor of mouth
- Mucous extravasation from sublingual salivary gland
- Plunging Ranula, extend through FOM muscles into neck





# Inflammatory lumps

#### Acute inflammation:

- URTI
- Ears
- Tonsils

Chronic inflammation:

• TB

- Sarcoidosis
- Syphilis
- Brucillosis

## **Neoplastic Neck Masses**

- Benign or malignant
- Primary (above clavicle):
- Lymphomas (most common)
- Squamous cell carcinoma of branchial cyst.
- Melanoma
- Rabdomyosarcoma
- Present late and the only presentation could be lymphadenopathy.
- Secondary: below clavicle (virchow's node)
- Breast (98%), lung, liver, stomach, prostate.
- Above clavicle à advanced stage of tumor.

## Investigations

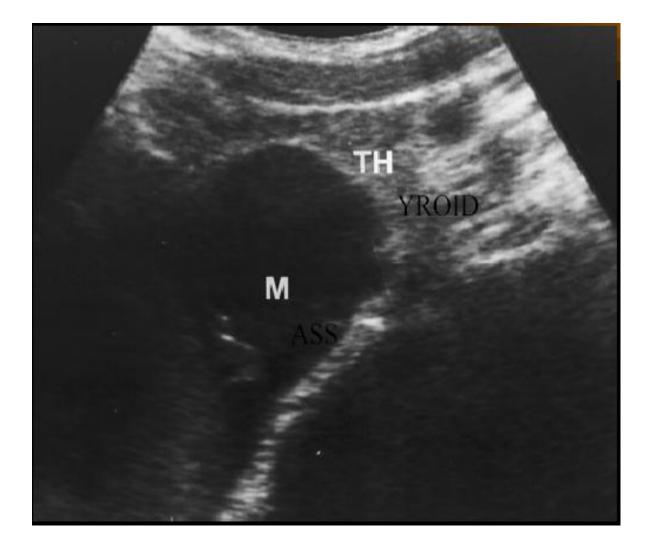
# Investigations

- Types of investigation:
- 1. Radiological
- 2.Labs
- 3. Endoscopy & biopsy
- 4.FNA (diagnostic)

# Radiological

- X-ray (not helpful).
- Barium swallow in hypopharyngeal diverticulum.
- US: differentiate btw solid & cystic masses
- CT: assessment of the mass itself.
- MRI: nature of the mass

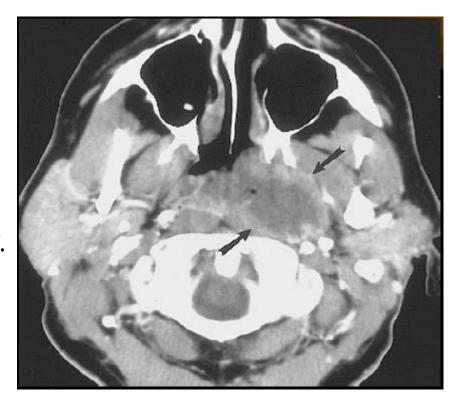
#### US



# CT

#### Benefits:

- 1. Distinguish cystic from solid lesions.
- 2. Define the origin and full extent of deep, ill-defined masses.
- 3. When used with contrast can delineate vascularity or blood flow.
- 4. Detect an unknown primary lesion.
- 5. To help with staging purposes.

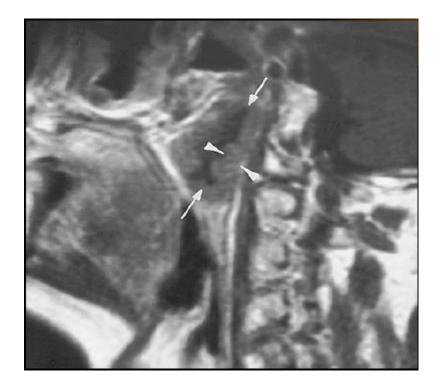


Signs of metastatic carcinoma

- Lucent changes within nodes
- Size larger than 1.5cm
- Loss of sharpness of nodal borders are often.

# MRI

- Provides much of the same information as CT.
- It is currently better for upper neck and skull base masses due to motion artifact on CT.
- With contrast it is good for vascular delineation and may even substitute for arteriography in the pulsatile mass or mass with a bruit or thrill.



#### Labs

- TB
- Sarcoidosis
- Hematological (lymphoma, leukemia)

# Endoscopy & Biopsy

- Fibro-optic or rigid endoscopy
- Nose-larynx-pharynx-esophagus-mouth.
- Take biopsy:
  - If u cannot find the primary lesion in the neck, take Bx from suspected places.
    - Base of the tongue.
    - Tonsils.
    - Nasopharynx.
    - Pyriform fossa.
    - Supraglottic.

#### FNA

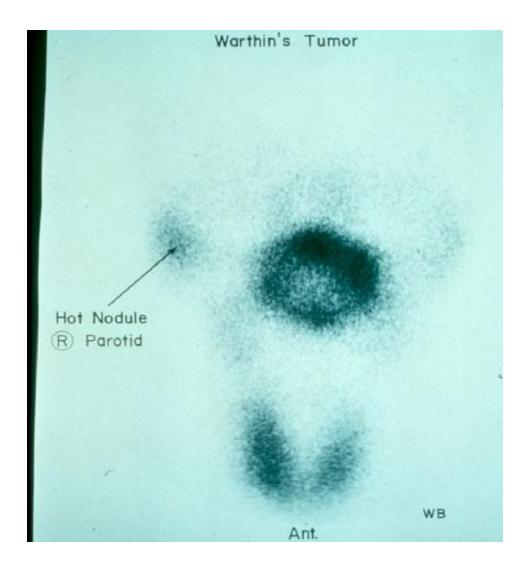
- FNAB is the <u>STANDARD</u> of diagnosis for neck masses If u suspect malignancy.
- 90% of cases it gives true Dx.
- Could have false -ve or false +ve.
- Differentiate btw inflammatory & neoplastic masses.



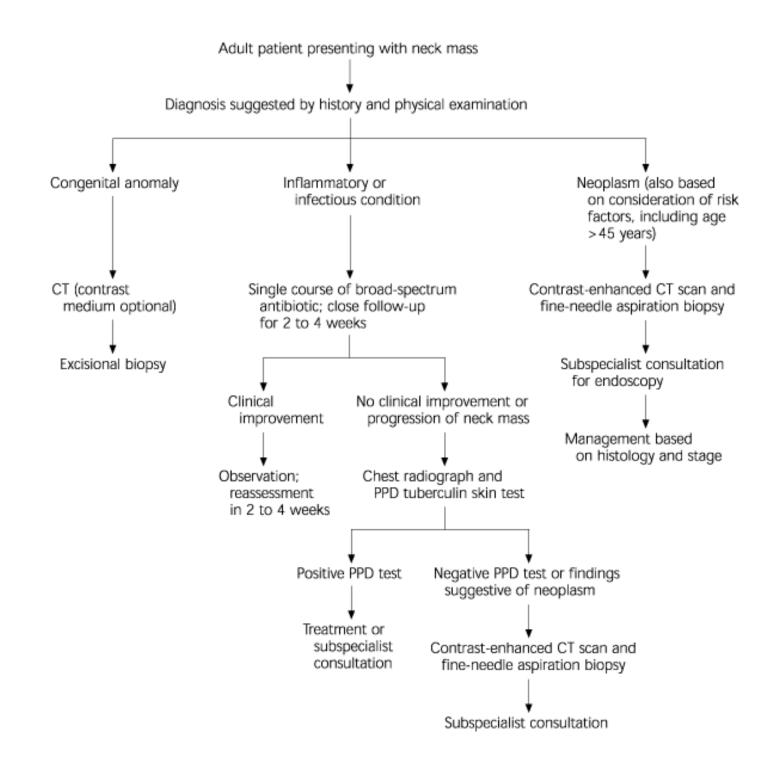


#### **RADIONUCLEOTIDE SCANNING**

- Differentiate a mass from within or outside a glandular structure.
- Also indicate the functionality of the mass.
- Important for salivary and suspected thyroid gland masses.



# Management



#### Thanks