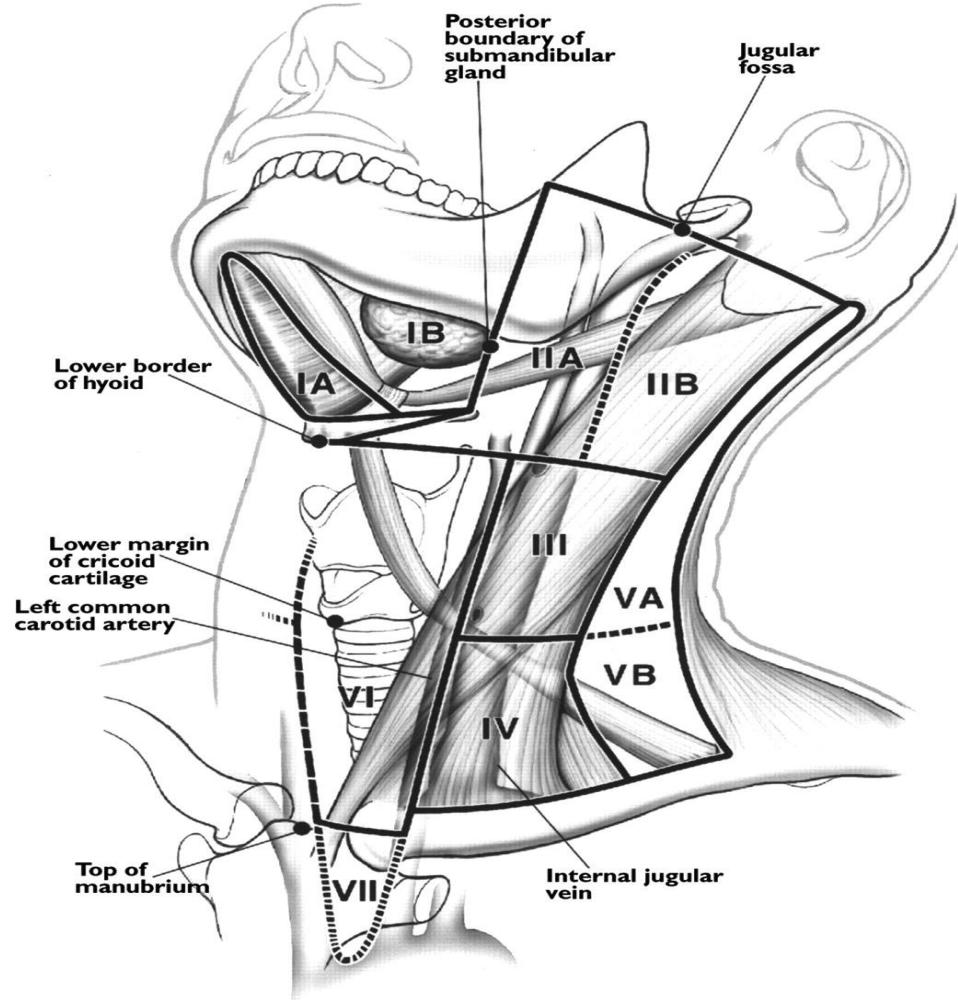


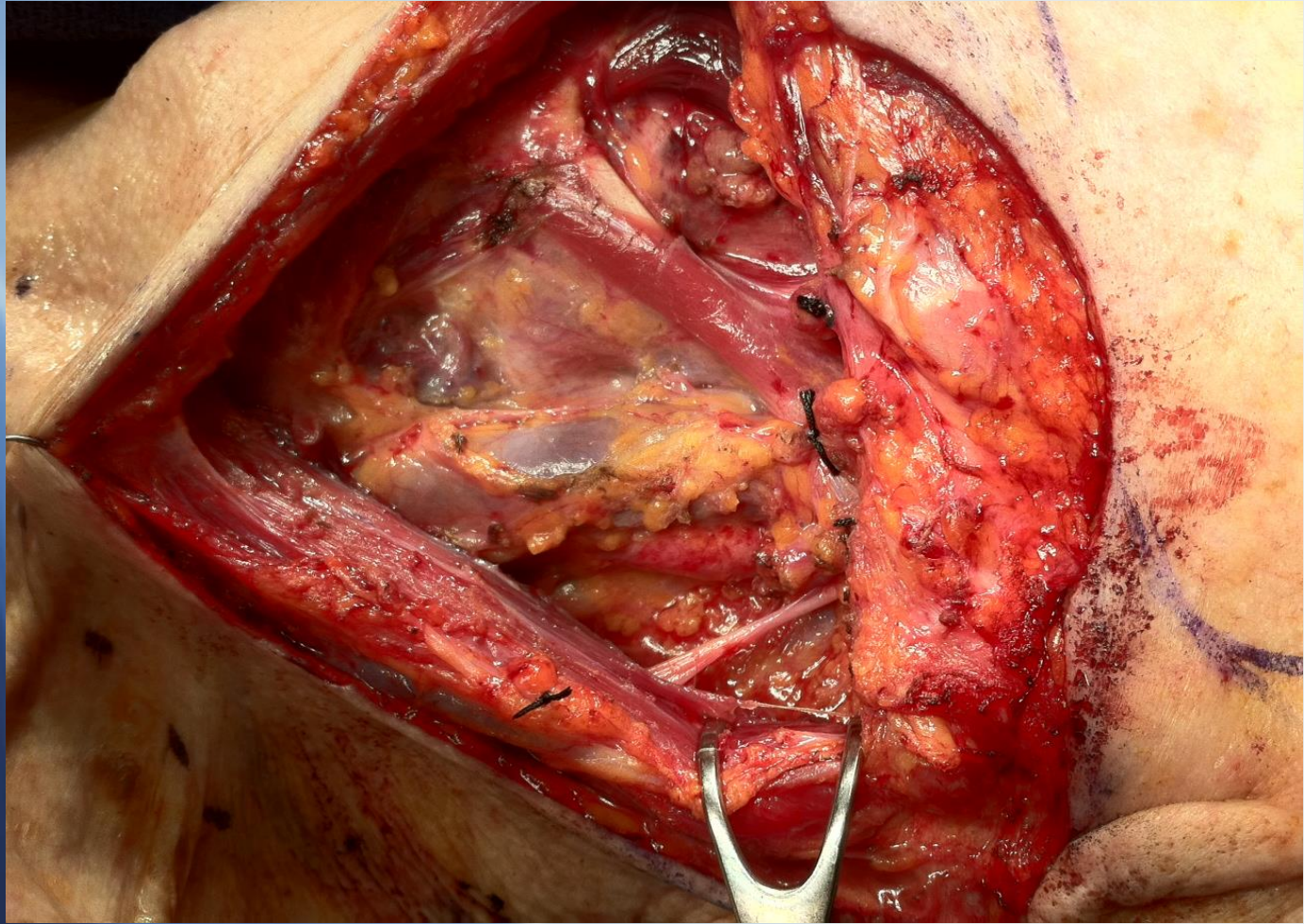
Evaluation of the Head and Neck Mass

Michael S. Aronsohn, MD, FACS

Ear Nose and Throat Associates of South Florida

www.ENTSF.com





Initial Evaluation

- Adult or child?
 - Children >90% benign (inflammatory infectious)
 - Adults 80% neoplastic

Questions to Ask

- How long?
- Pain?
- Rapid Growth?
- Other masses?
- Pain elsewhere? (ear, throat)
- Change in voice or swallowing?
- Fevers, night sweats, weight loss?
- History of skin cancer?
- History of other cancers?

Exam

- Complete head and neck evaluation
- Include fiberoptic laryngoscopy
- Palpate base of tongue, tonsil
- Exam skin (large scars from dermatological procedures)

Differential Diagnosis

- “CATNIPS”
 - Congenital
 - Autoimmune
 - Traumatic
 - Neoplastic
 - Inflammatory
 - Psychological
 - Sarcoid

Congenital

- Location

Midline:

Thyroglossal Duct Cyst

midline mass

moves with swallowing

treatment is sistrunk procedure

Lateral:

Branchial Cleft Cyst

mass underlying SCM in level II

most common is second branchial cleft cyst

tracts back to the tonsil

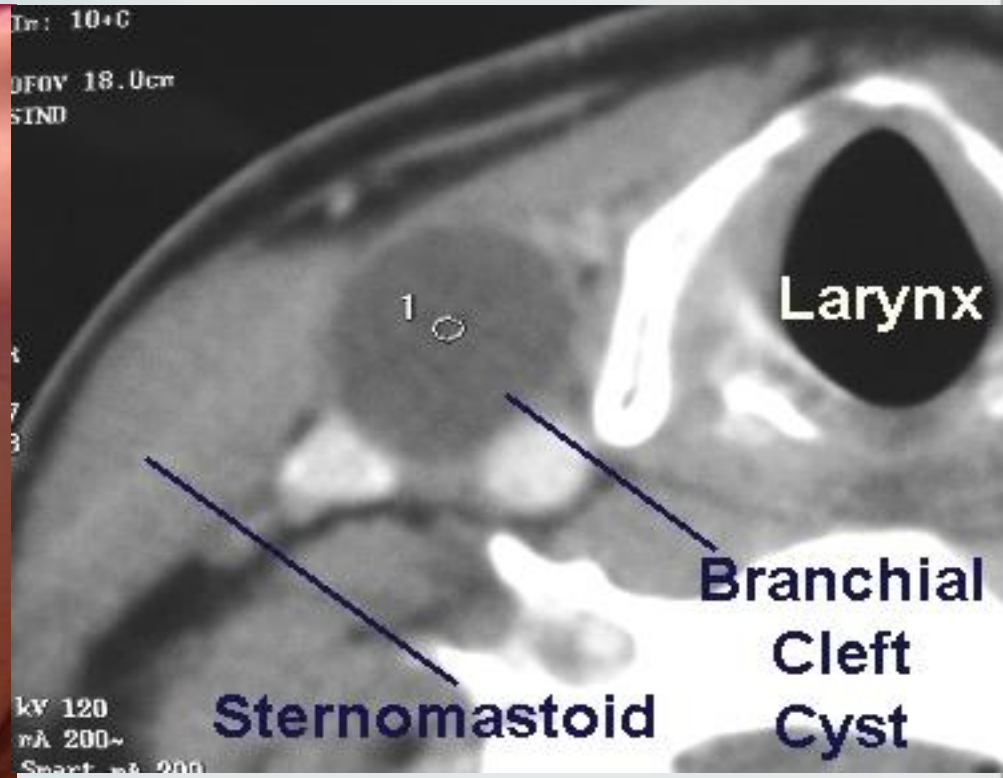
rule out other possible cystic masses

treatment excision

Random:

sebaceous cyst





Autoimmune, Others

- Rare
- Kimuras disease
- Castlemans disease
- Other

Trauma

- Antecedent history
- Hematoma
- Pseudoaneurysm
 - History of trauma
 - Thrill or bruit

Neoplastic

- Benign
 - Lipomas
 - Soft tissue, asymptomatic, slow growth
 - Neuroma
 - Solitary, slow growing
 - Parapharyngeal space most common
 - Sporadic but associated with NF
 - Vascular tumors
 - At level of carotid bifurcation, pulsatile mass
 - Bruit or thrill

Neoplastic

- Malignant

 - Nodal Metastasis

 - origin

 - evaluation

 - Primary Tumors

 - origin

 - evaluation

Neoplastic - Malignant

- Nodal Masses
- Origin

Nodal mass:

Asymptomatic neck mass presenting symptom

12% head and neck cancer case.

80% of these are squamous cell carcinomas

Neoplastic - Malignant

- History
 - History ETOH and tobacco
 - HPV
 - Emerging data, importance
- Physical Exam
 - Evaluation oral cavity, oropharnx, larnx
 - Careful laryngoscopy
 - In unknown primary malignancies, 80% of the were from the base of tongue and tosillar region.
- Imaging
 - CT
 - Imaging of choice
 - Solid vs cystic
 - Nodal changes (necrosis, >1.5 cm, indistinct borders)
 - No contrast if thyroid suspicion
 - MRI
 - Vascular suspicion
 - Skull base



Neoplasm - Malignant

- Primary Tumors
 - Thyroid
 - Lymphoma
 - Salivary

Neoplasm - Malignant

- Thyroid
 - Lymph node metastasis may be initial symptom in 15% patients
 - Anterior compartment mass
 - Ultrasound imaging of choice
 - Types of thyroid cancer

Neoplasm - Malignant

- Lymphoma
 - Constitutional “B” symptoms
 - Generalized lymphadenopathy
 - FNA may be inconclusive
 - A “normal” biopsy may still be lymphoma
 - Persistent node may require excisional biopsy

Neoplasm - Malignant

- Salivary Tumors
 - Angle of mandible or submandibular triangle
 - 80% parotid tumors benign
 - 50% submandibular tumors malignant
 - Worrisome features for malignancy:
 - Cranial nerve weakness
 - Skin fixation
 - History of skin cancer
 - Rapid growth
 - Pain



Infectious

- Less common in adults
- Pain, rapid onset
- Increase WBC, fever
- No response to antibiotics consider FNA
- Types of inflammatory
 - Cat scratch (bartonella)
 - Atypical Mycobacterium

Psychological

- Carotid bulb (atherosclerotic)
- Parotid submandibular glands
- Normal lymph node
- Transverse process of C1
- Hyoid bone

Sarcoid

- Systemic granulomatous disease
- Unknown etiology
- More common in female
 - Northern European
 - African American

Conclusion

- Wide variety of causes of neck mas
- Always high index of suspicion with adults
- Full history and thorough physical necessary
- If unsure, at the very least imaging to assist in diagnosis.