

# ANTERIOR NECK TRIANGLE MASSES

# Anterior Neck Triangle



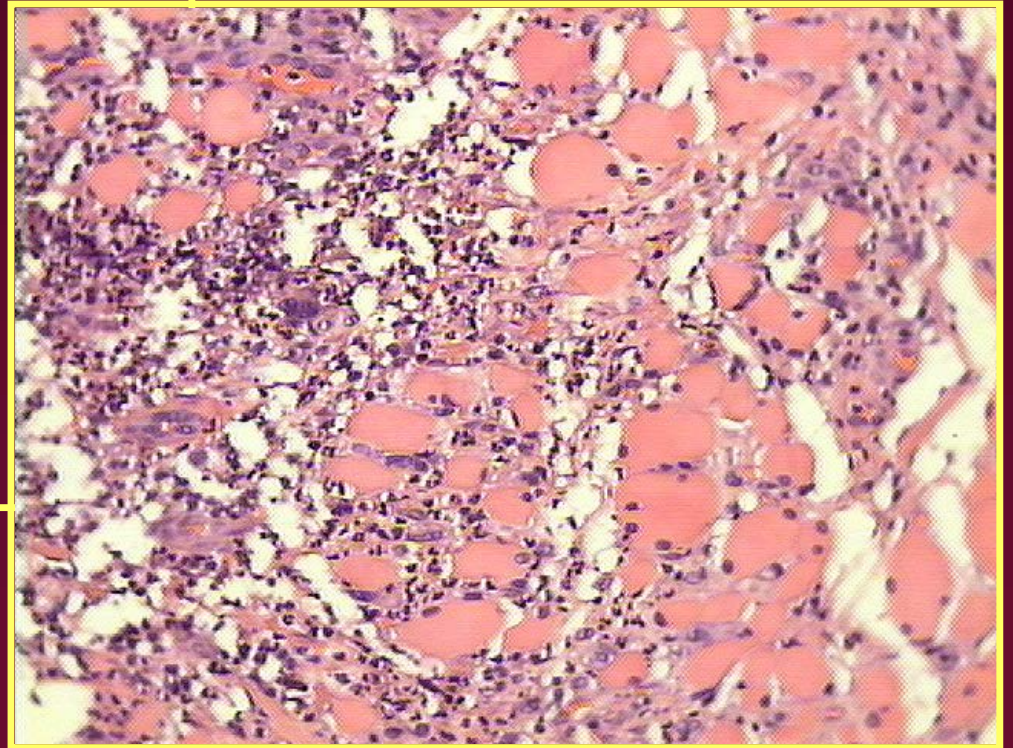
# Anterior Neck Masses

- Ludwig's Angina
- Thyroglossal Duct Cyst
- Goiter
- Subacute Thyroiditis
- Hashimoto's Thyroiditis
- Thyroid Adenoma
- Thyroid Adenocarcinoma
- Sarcoma

# Ludwig's Angina

- Odontogenic Infectious Source
- Space Infection/Cellulitis of Anterior Triangle
- Painful, indurated
- Airway Obstruction
- Potentially Fatal Course

# Ludwig's Angina



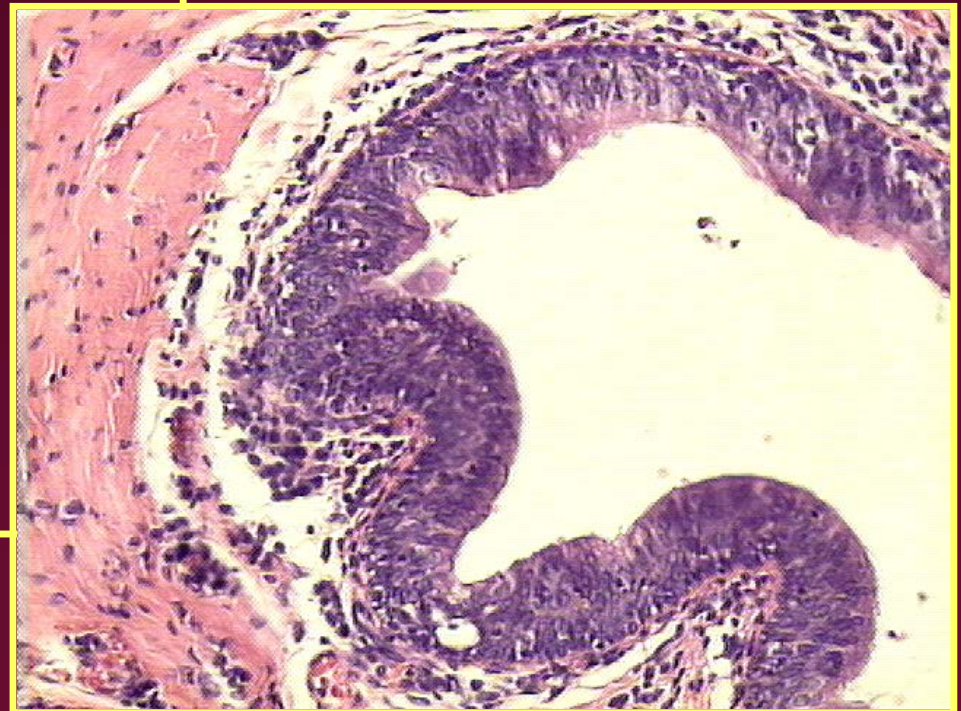
# Thyroglossal Tract Cyst

- From Tongue Base to Thyroid
- Wraps around hyoid bone
- Midline fluctuant mass
- Painless

# Thyroglossal Duct Cyst

Midline Mass

Histopathology



# Goiter

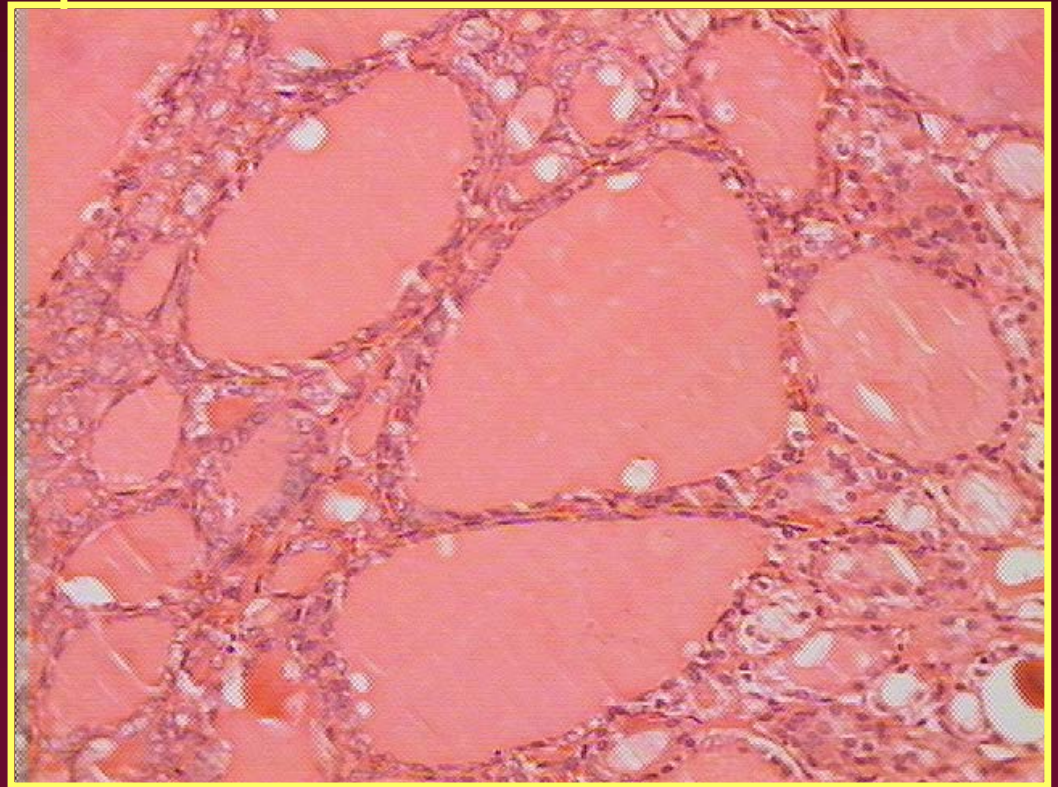
- Midline/Bilateral
- Painless Swelling
- Nontoxic “euthyroid”
- Toxic “hyperthyroidism”
  - **Graves’ disease**
- Hypothyroidism
  - **Myxedema**



# Nontoxic Goiter

Clinical

Enlarged Follicles

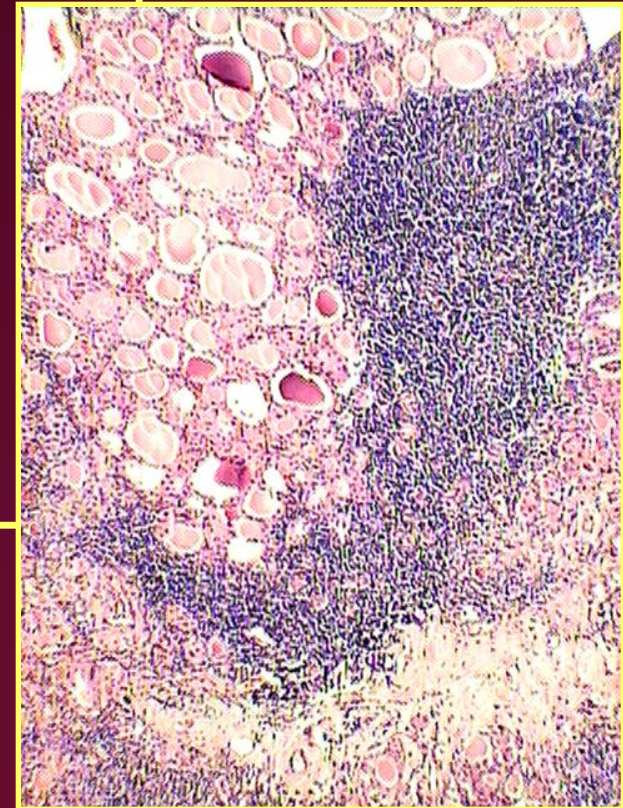


# Grave's Thyrotoxicosis

Exophthalmos

anti-TSH receptor  
autoantibodies

thyroid stimulatory  
autoantibodies



# Subacute Thyroiditis

- Soft Swelling
- Painful
- Fever
- Viral Etiology (Echo, coxsackie, adeno, influenza)
- Some cases show granulomatous inflammation

# Thyroiditis



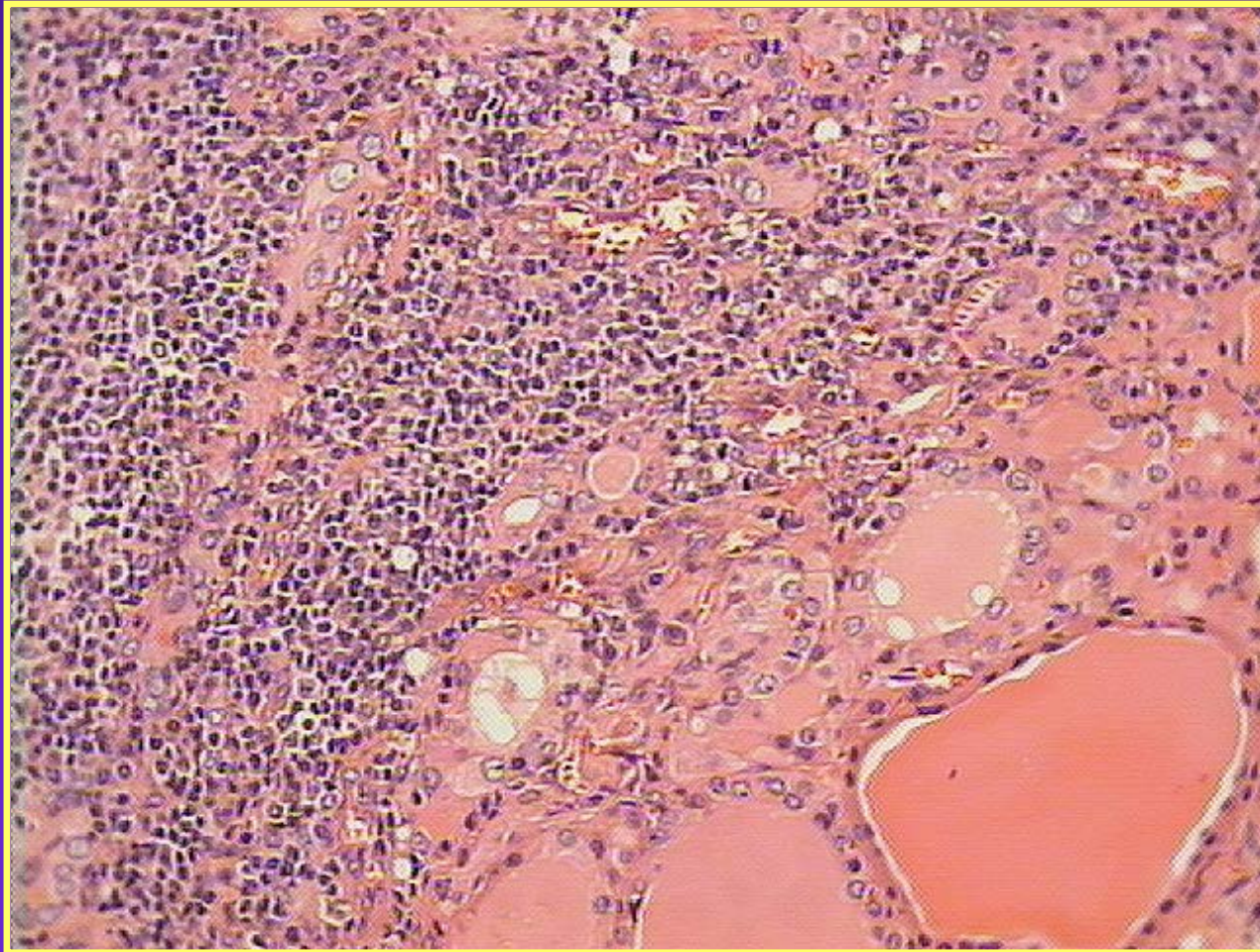
# Hashimoto's Thyroiditis

- Adults
- Painless midline swelling
- Autoreactive Cytotoxic T cells
- Hypothyroidism is late



# Hashimoto's Thyroiditis

## Lymphocytic Infiltration



# Thyroid Adenoma

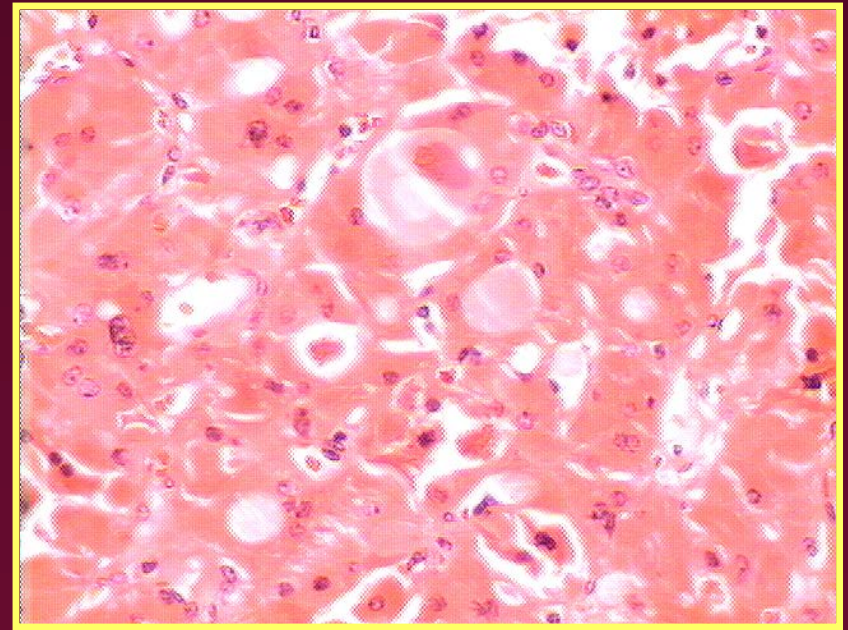
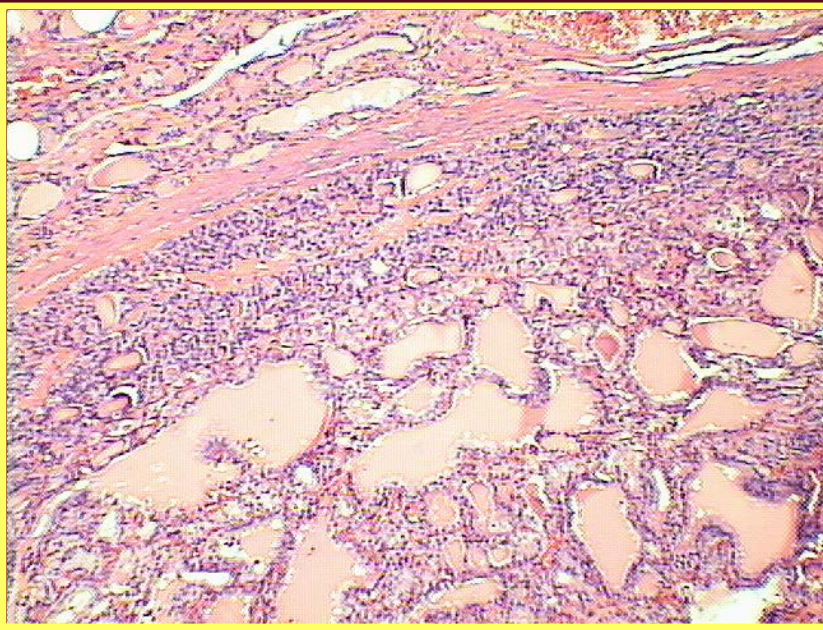
- Unilateral movable mass
- Hot nodules on thyroid scans ( $I^{131}$ )
- Histologic Subtypes
  - Fetal Adenoma
  - Follicular adenoma
  - Hurthle cell tumor



# Thyroid Adenomas

- Follicular Adenoma

Hurthle Cell Adenoma



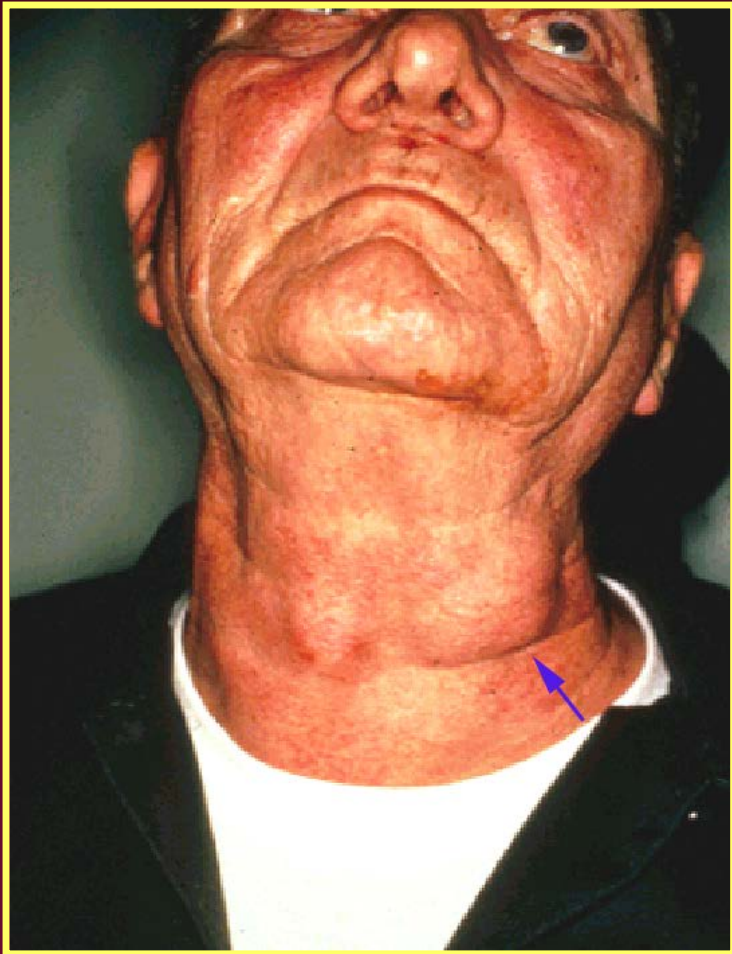


# Thyroid Adenocarcinomas

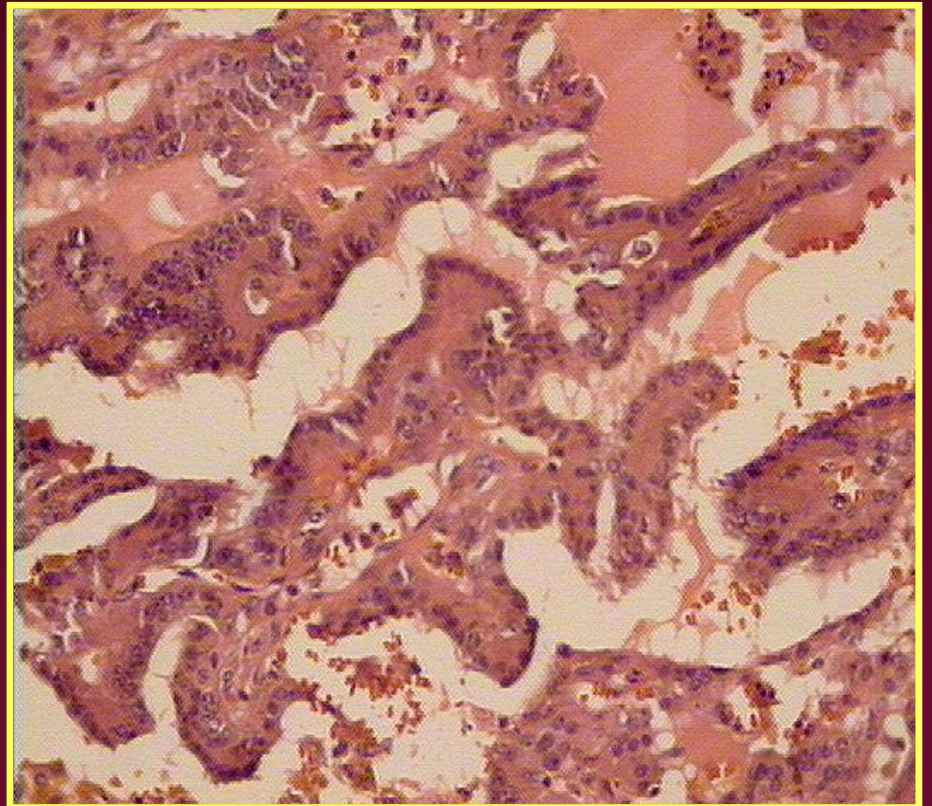
- Hard Mass
- Cold nodule
- Metastasis to lateral neck nodes
- Distant metastases
- Histologic types
  - Papillary CA
  - Follicular CA
  - Medullary CA
  - Anaplastic types

# Thyroid CA

Clinical



Papillary CA



# Multiple Endocrine Neoplasia Syndrome III (IIb)

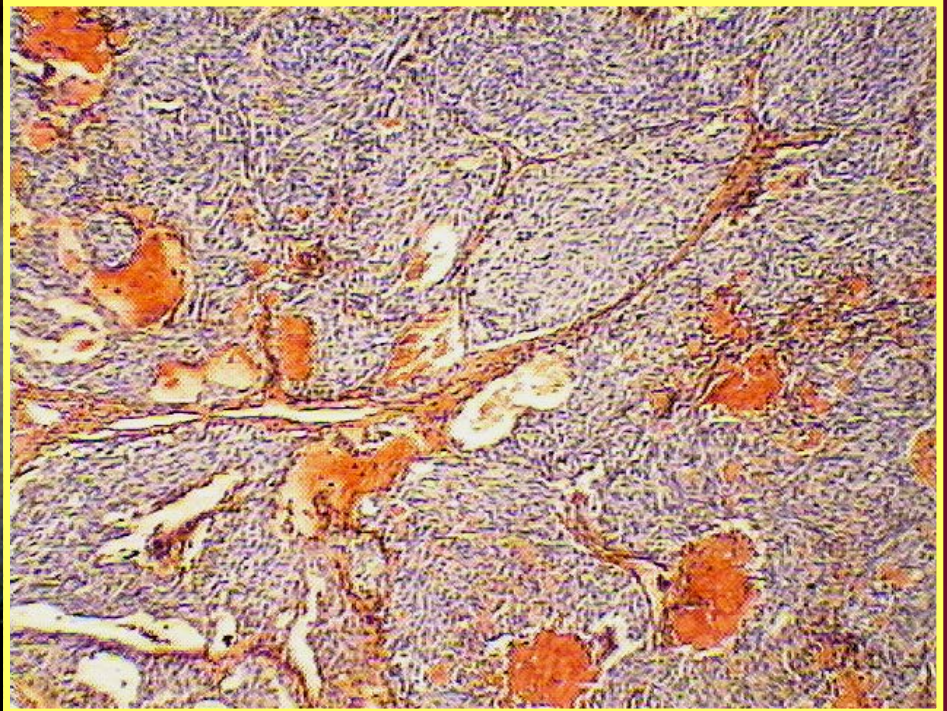
- Medullary CA of the Thyroid
- Adrenal Pheochromocytoma
- Oral Mucosal and Eyelid Neuromas
- Mutation in RET proto-oncogene



# MEN III

- Mucosal Neuromas

Medullary CA, orange amyloid



# Sarcomas

- Synovial sarcoma from thyroid bursa
- Other histologic types are rare in anterior neck
- Indurated Masses off Midline



# Synovial Sarcoma

Biphasic Pattern

