ESOPHAGEAL CANCER

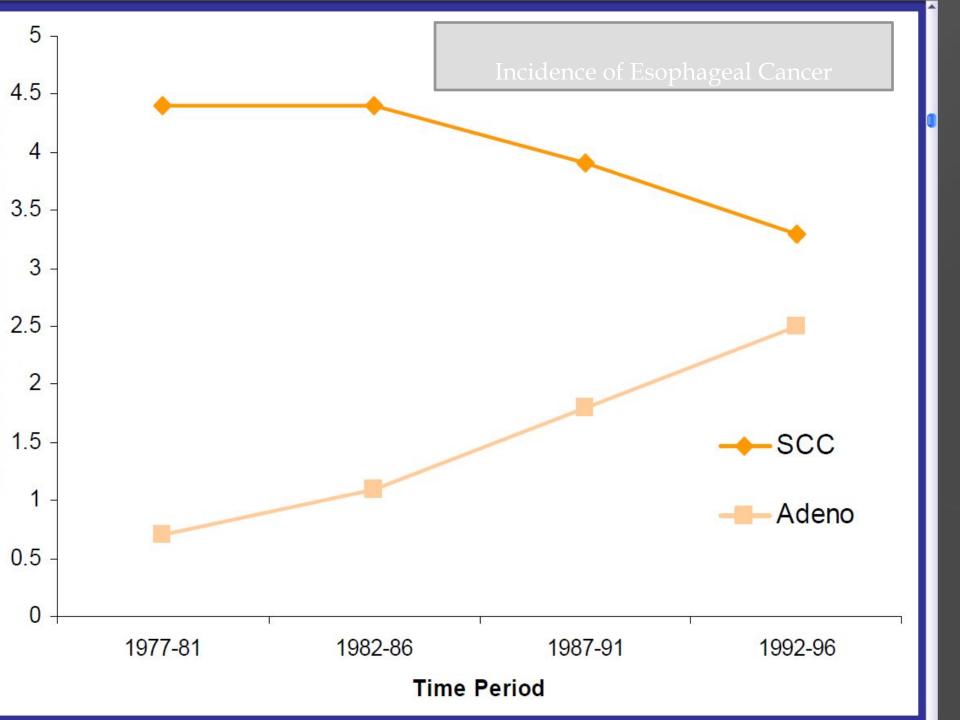
Semenisty Valeriya, MD 01.10.2017

Esophageal Cancer

- Epidemiology and Risk Factors
- Diagnosis signs, symptoms, and tests
- Work-up
- Treatment Overview
- Future Directions

Epidemiology

- Over 15,000 patients per year in the United States and 7th leading cause of cancer death in men.
- 8th most common cancer worldwide.
- Most cases are squamous cell, related to tobacco and alcohol exposure.
- In Western countries, adenocarcinoma increasing thought due to Barrett's esophagus.
- Approximately 50% present with advanced disease, which is incurable.



Adenocarcinoma: Barrett's Esophagus

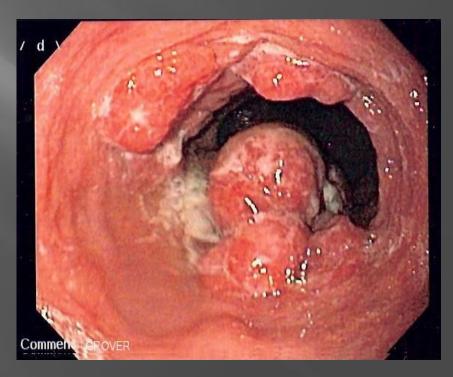
- Likely related to chronic GERD, obesity.
- Pathway of malignant progression.
- 40 to 125 times relative risk of adenocarcinoma.
- Incidence of cancer is approximately 0.5% per year in patients with BE.
- No known effective screening tool.
- Usually Lower esophagus/GE junction.

Barrett's Esophagus and Esophageal Cancer

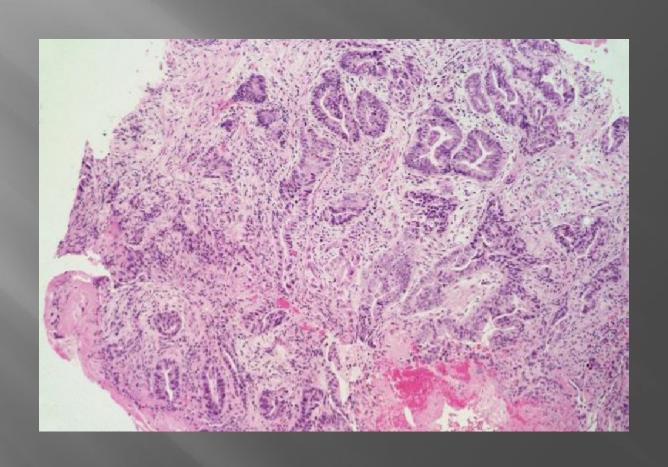
ENDOSCOPIC IMAGE OF BARRETT'S ESOPHAGUS WITH PERMISSION TO PLACE IN PUBLIC DOMAIN TAKEN FROM PATIENT

ENDOSCOPIC IMAGE OF PATIENT WITH ESOPHAGEAL ADENOCARCINOMA SEEN AT GASTRO-ESOPHAGEAL JUNCTION.

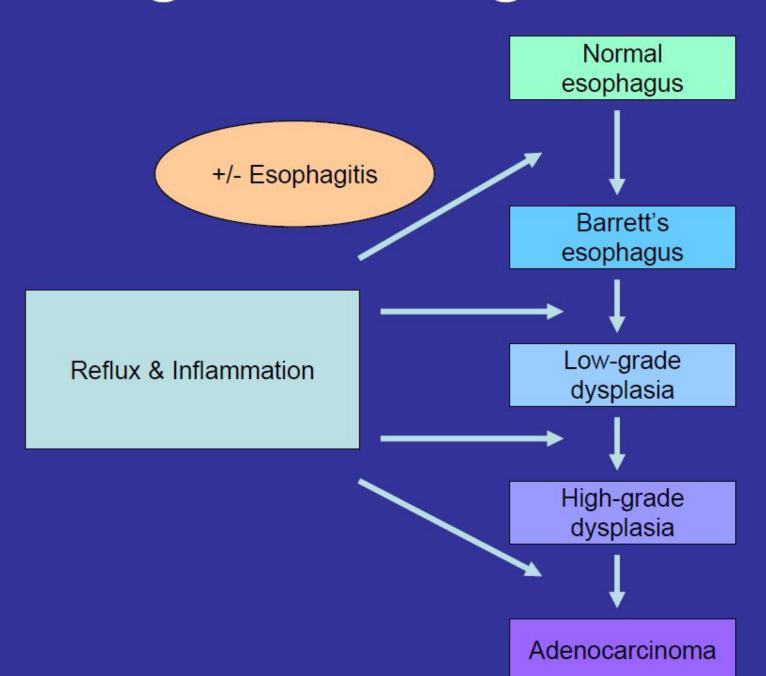




Adenocarcinoma



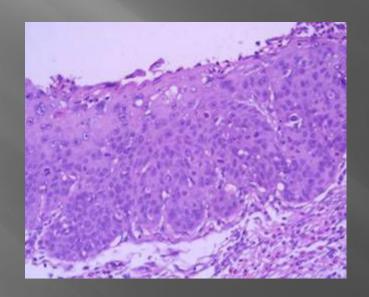
Mangham Progression



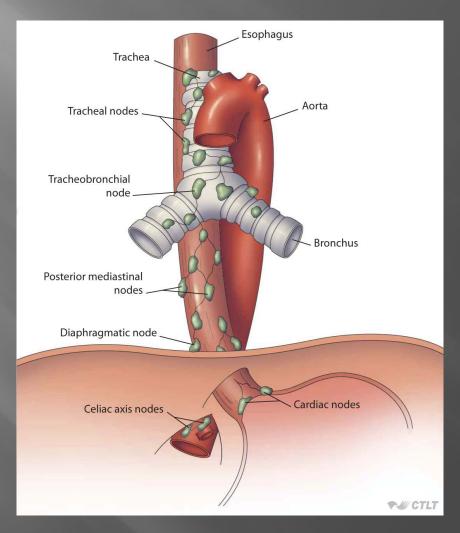
Squamous Cell Carcinoma

- Usually upper and middle esophagus.
- Tends to be a local problem less metastases.
- Most common worldwide histology.
- Carcinogens present in tobacco and alcohol.

Squamous Cell Carcinoma



Anatomy



Clinical Presentation

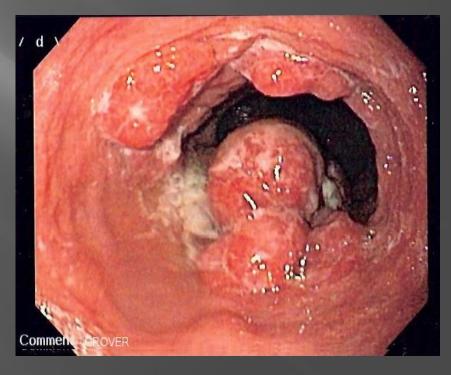
- Signs: weight loss, palpable lymph nodes, usually non-specific.
- Symptoms: dysphagia, loss of appetite, pain with swallowing, fatigue, cough, retrosternal and abdominal pain.
- Lab Data: no tumor markers.

Endoscopy

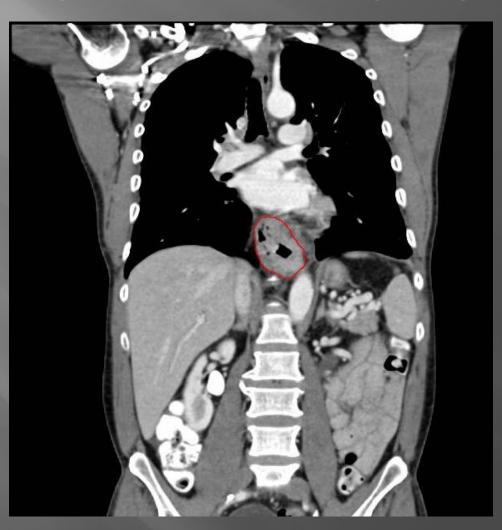
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Tomographic Imaging (CT)



Positron Emission Tomography



Staging

Two basic groups

Locally Advanced (primary tumor and regional lymph nodes):

- potentially curable

Metastatic (distant spread)

- -Incurable
- -survival increased with chemotherapy

Locally Advanced Stage

- "Best" treatment approach is controversial and continually evolving.
- Concepts to consider:
- Local control (primary tumor)
- Distant disease ("micrometastases")
- Modes of treatment include surgery, radiation and chemotherapy in various sequences and combinations

Chemotherapy & Radiation Without Surgery

- 5y survival:
- lacksquare radiation therapy only 0%
- Combination treatment 26%

Survival and Pathologic Response

Pattern of Recurrence

- Almost always at a distant site.
- Approaches to this problem.

Adjuvant chemotherapy

Newer chemotherapy

Induction chemotherapy

Intensified chemotherapy

Result: nothing is much better...

Treatment of Metastatic Disease

- Palliative
- No standard chemotherapy approach
- Combination of two drugs based on 5-FU, platins, taxanes.
 - -Cisplatin/CPT-11, FOLFOX
- Median survival ~ 9 months
- Clinical trial

Palliation

- For swallowing trouble: stent most common
- For pain: narcotics, radiation
- For Cachexia: appetite stimulants, feeding tubes

Molecular Markers/Targets

