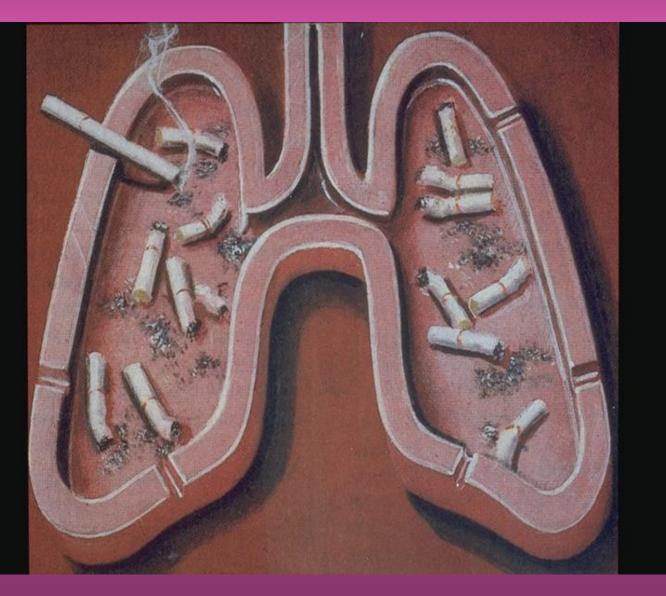
LUNG CENCEF







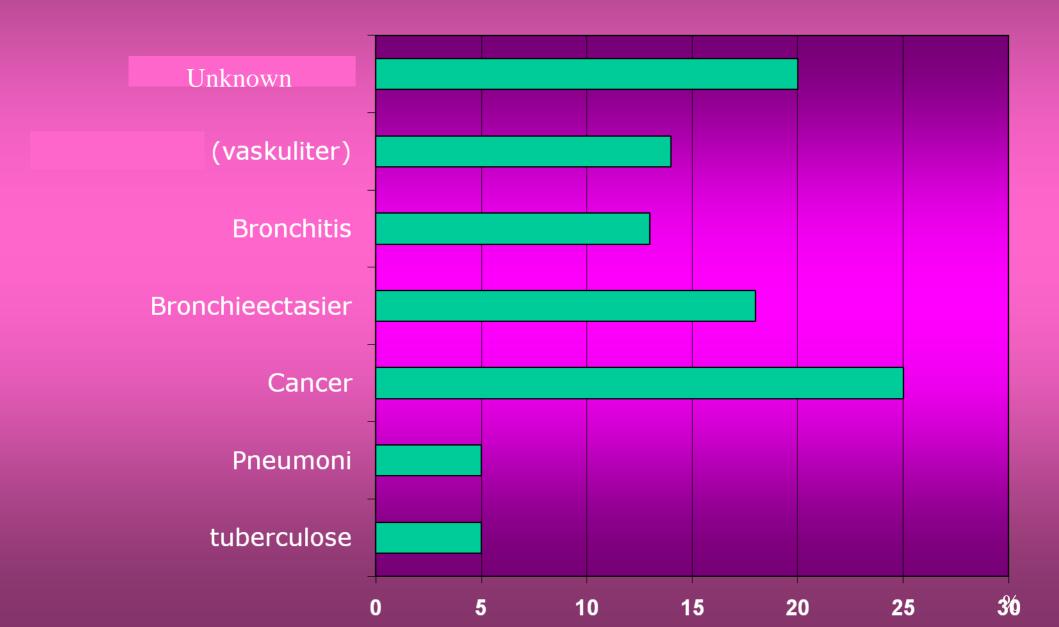
Finn Rasmussen

Case Easy warm up

- 65 years old male, for some years increasing dysphoea. Diagnosed with COPD. Slight bloodstain in the sputum in the morning. Lost 6 kg in 3 months. Disturbances and pain in right arm.
- What is really disturbing you ?
- Further work-up ?

Best guess of diagnosis ?

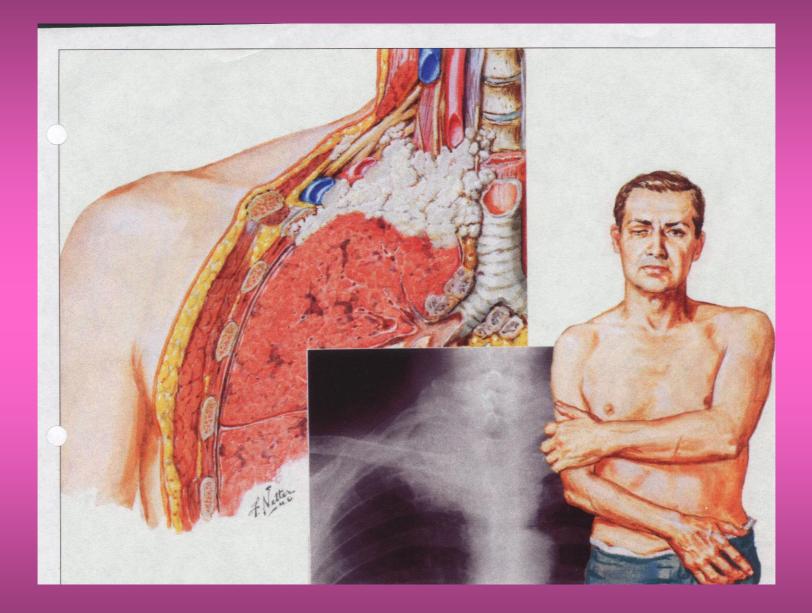
Causes of Hemoptysis



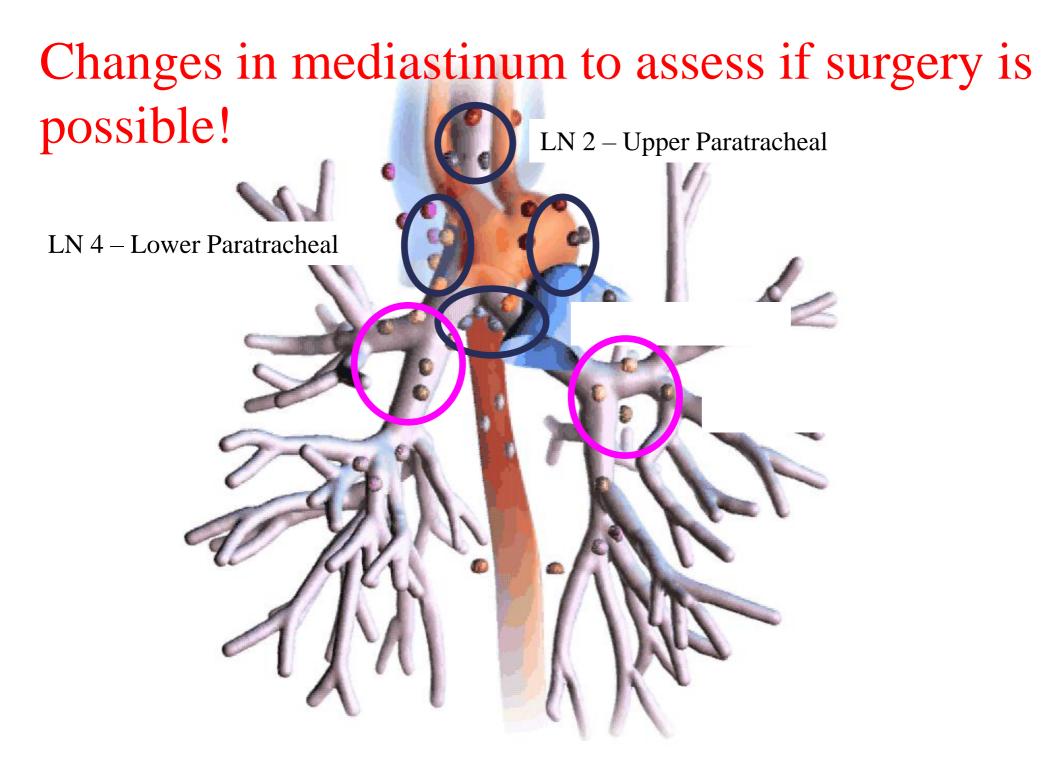
Symptoms in patients that later turn out to have lung cancer

Symptoms and signs of lung cancer	prevalence (%)
Cough	8-75
Weight loss	0-68
Dyspnoa	3-60
Chest pain	20-49
Haemoptyse	6-35
Bone pains	6-25
Clobbing	0-20
Fever	0-20
Tiredness	0-10
Swallowing problems	0-2
Wheeze	0-2

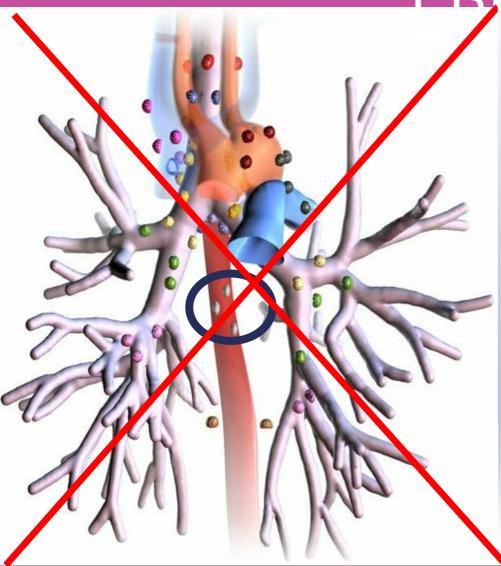
Again great variation in symptoms ! But not all are equally important !!!

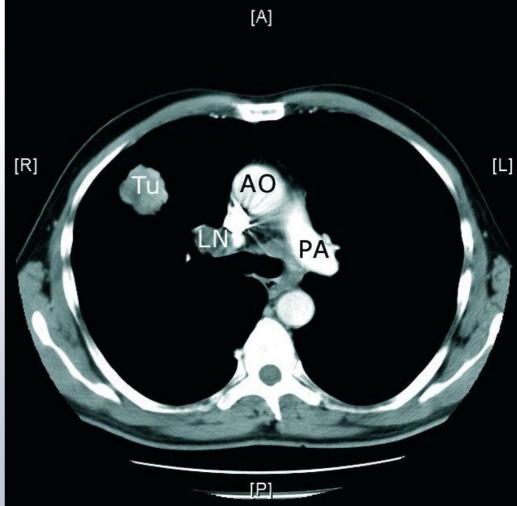






LN 8 – Para





Tumor (Tu) med stor lymfeknude (LN) I mediastimum. Aorta (AO), Ateria pulmonalis (PA).

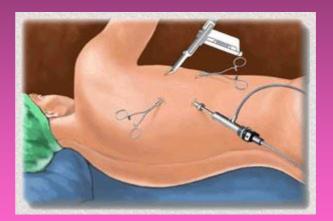
Other procedures

A

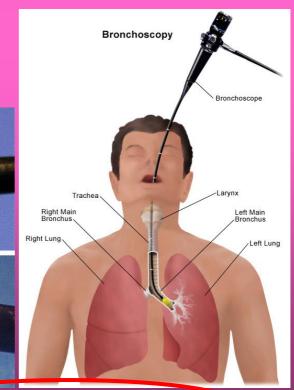
В



Traditional surgery



VATS

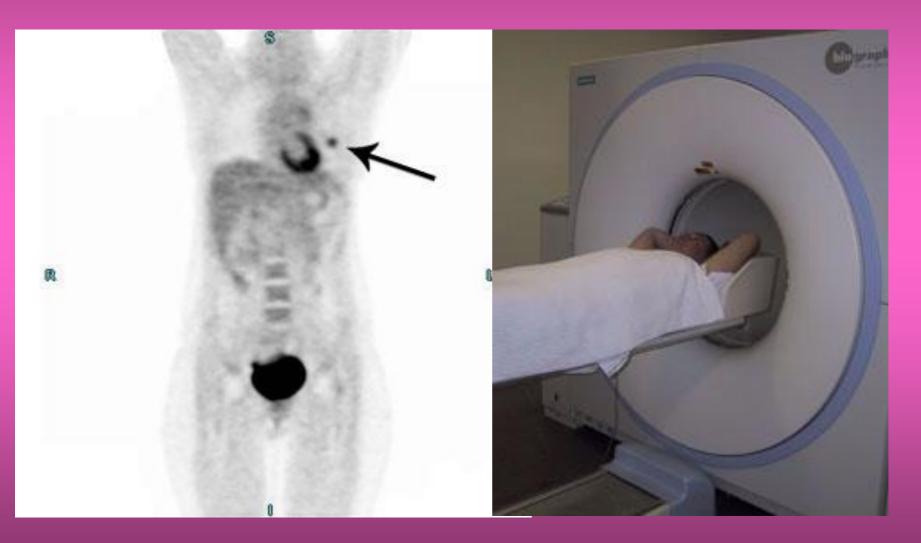




Thoracoscopy

Bronhoscopy + EBUS

PET scan in lung cancer A necessary "tool" Its all about staging





CT scan

PET – CT scan

"needed" number of diagnostic tests

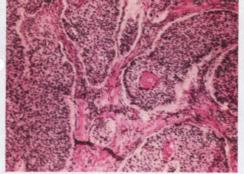
- CT scan of Thorax and upper abdomen with contrast
- Bronchoscopy/or CT guided Biopsy,
- PET-CT
- Endo-bronchial ultra sound (EBUS)/ oesophageal ultra sound (EUS)

DOCTOR FUN presents 1987

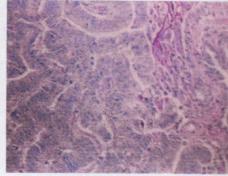


In the days before lung cancer

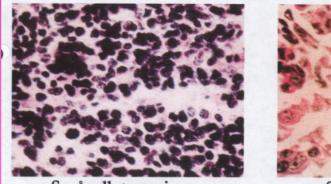
df1987-153 http://ibiblio.org/Dave/drfun.html David Farley, d-farley@ibiblio.org Copyright © 2001



Planocellulært carcinom



Adenocarcinom



Småcellet carcinom



~90% of all lungcancer is due to smoking

5 years survival is very low at aprox 7 %!

Lung cancer



Remember Smoking-related disease

Robbins / Cotran Textbook of Pathology

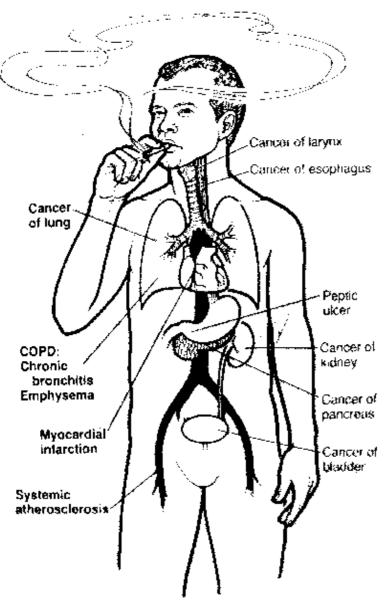
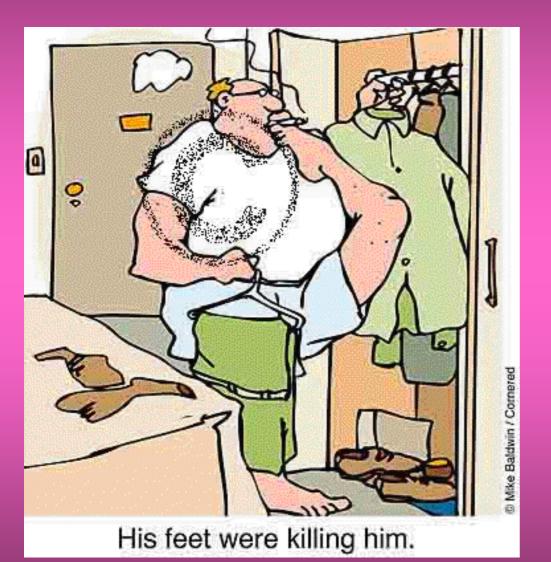




Figure 9-1. Adverse effects of anothing.

Other causes to Lung cancer



Asbest

Heavy industry (RARE) aluminium chrom arsenic chromium mustard gas, nickel vinyl chloride bis (chloromethyl) ether Radiation iatrogen radon +Unknown

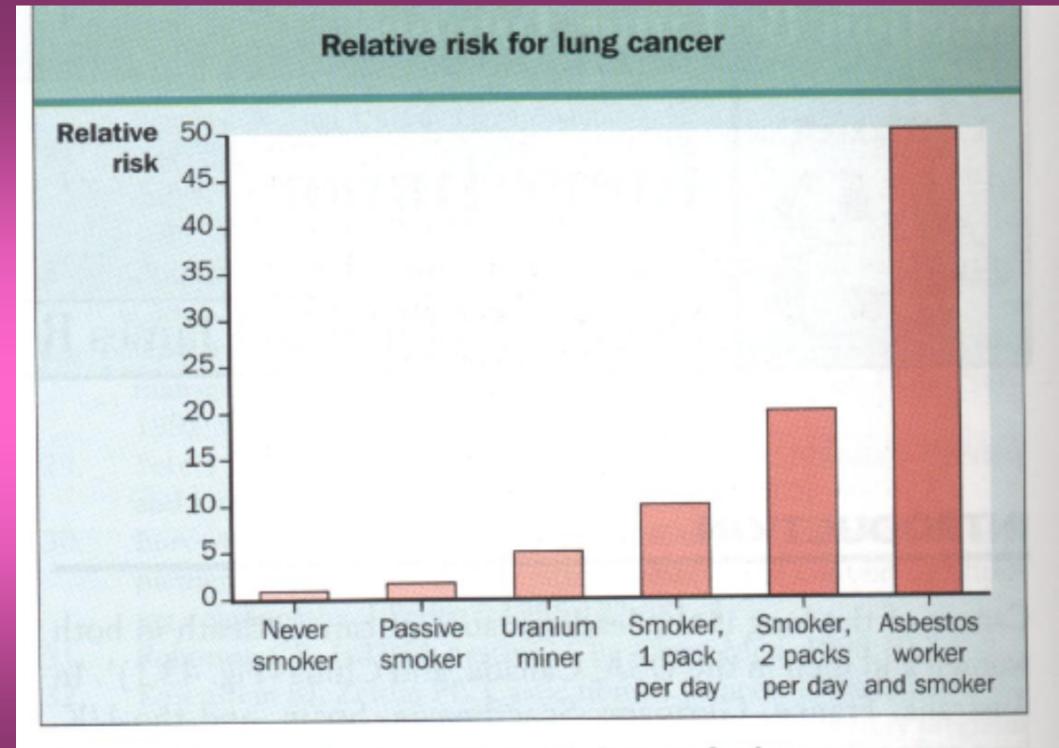
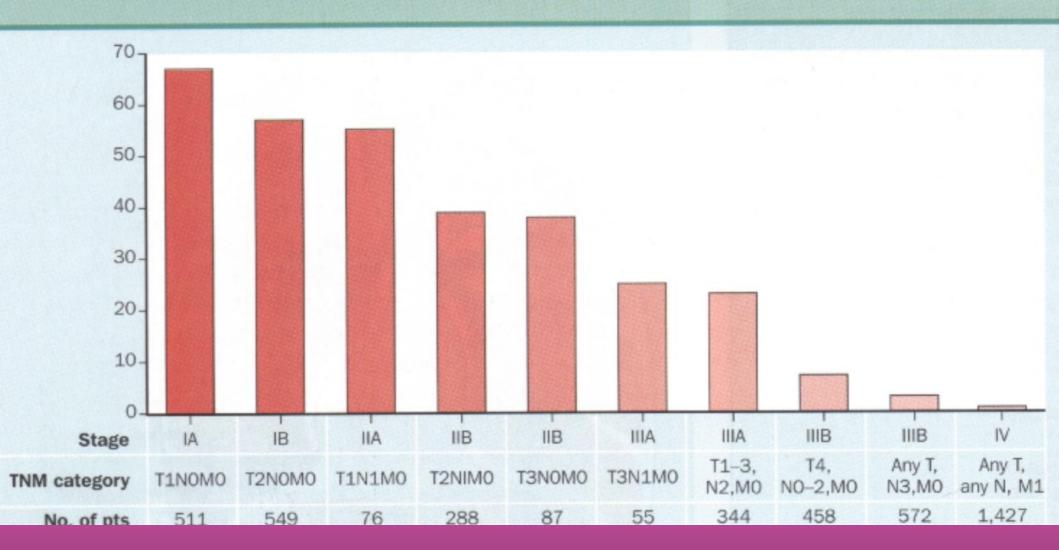


Figure 43.3 Approximate relative risk factors for lung cancer.

Smoking stop and lung cancer

- Risk for lung cancer is half after 5 years
- Close to the level of non smoker after 15 20 years
- however, always double the risk for developing lung cancer (if smoked more than 20 pack years).

Five year survival of patients pathologically staged



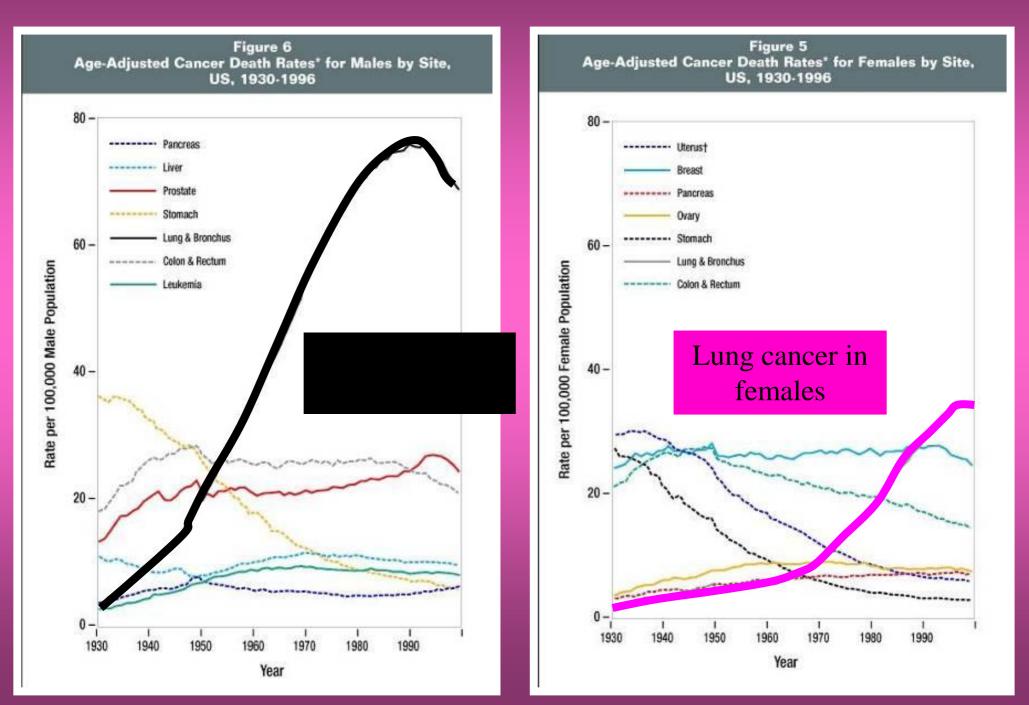
So its all about staging !!!!!!!!

Mountain et al. Chest 1997,111;1710-17

Carcinoma of the Lung

- . 6.5 % of all deaths
- #1 cause of cancer deaths in males & females
 - 31% of male cancer deaths in 2001
 - . 90,367 deaths
 - 25% of female cancer deaths
 - . 65,506 deaths

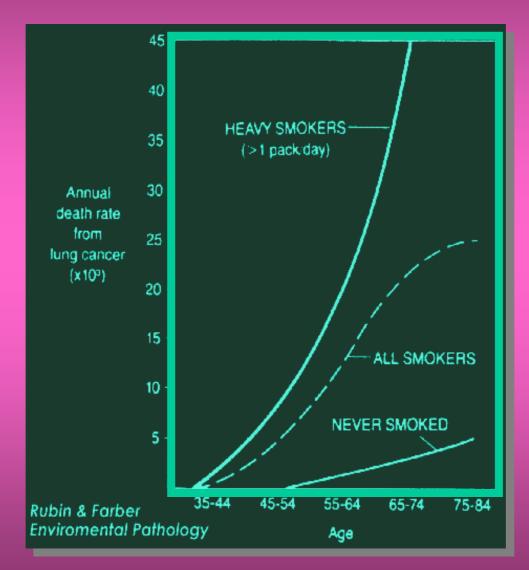
Lung cancer

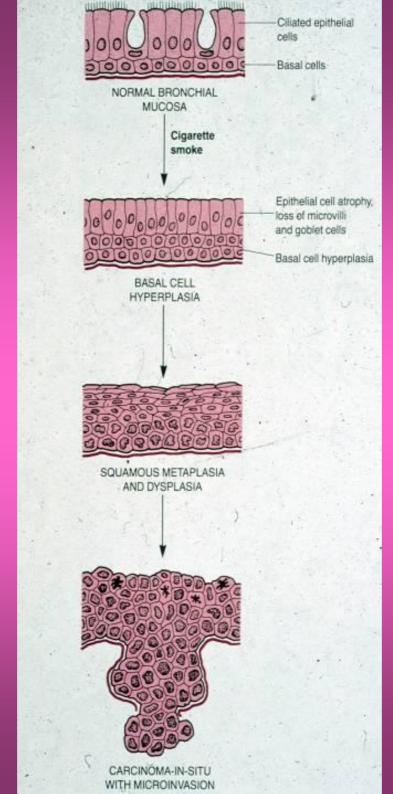


Cancer Deaths estimated for 2004

<u>Sites</u>	New Cases	Deaths
ALL	1,368,300	563,700
Lung	173,770	160,440
Colon-Rectum	146,940	56,808
Breast	217,440	40,580
Prostate	230,110	29,900

Annual death rate for lung cancer

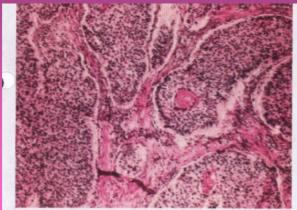




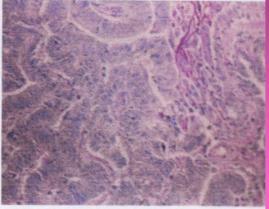
Classification of Lung Carcinoma (Major Types)?



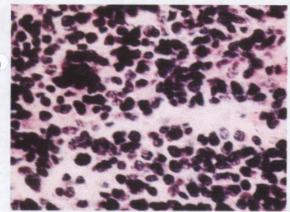
35%



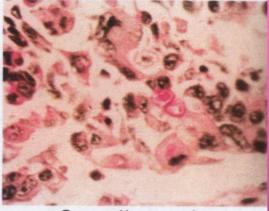
Planocellulært carcinom Squamous cell carcinoma



Adenocarcinom



Småcellet carcinom Small cell carcinoma 20%

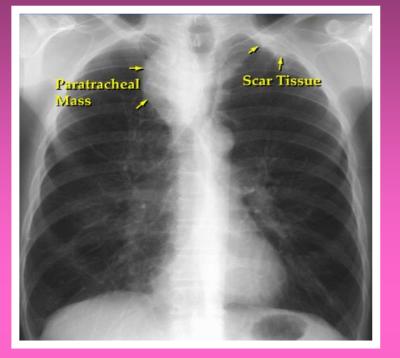


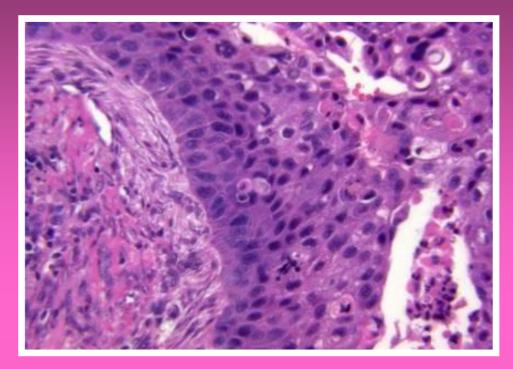
Storcellet carcinom

Large cell carcinoma 10%

5% others

Squamous cell carcinoma

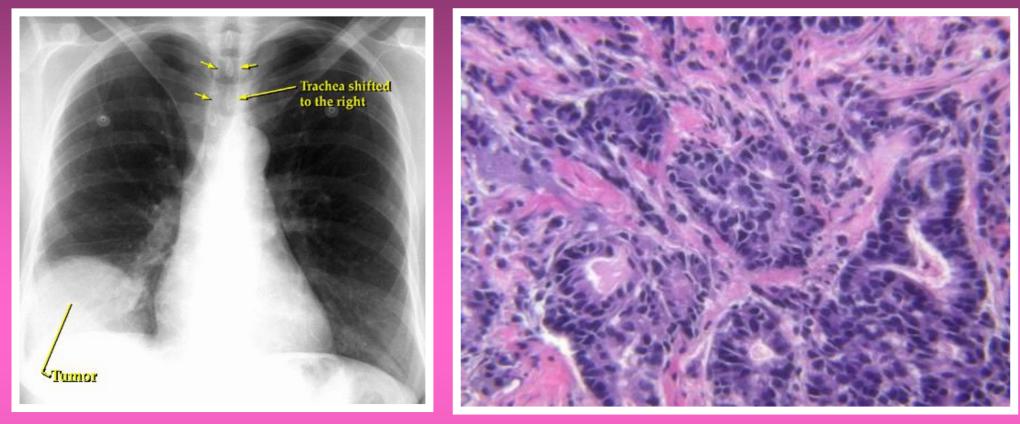




- Frequency 35%
- . Smoking: X 25 (increased risk)
- . Males > females
- . Survival (5 years): 15 20%
- . Arises in bronchial squamous metaplasia
- Often centrally located
- . May cavitate

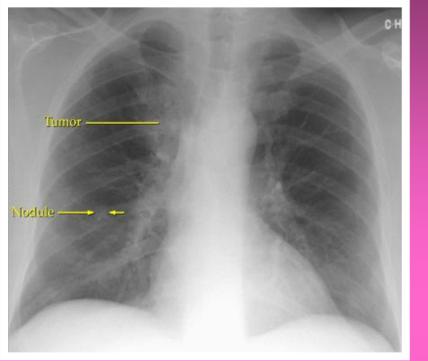


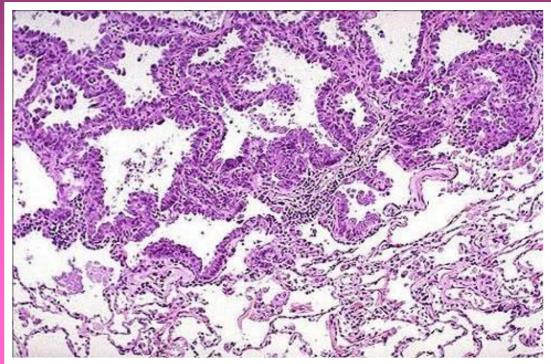
Adenocarcinoma



- Frequency: 30%
- . Smoking: X 3 (increased risk)
- . Males < females
- . Survival (5 years): 15 20%
- . Often peripheral

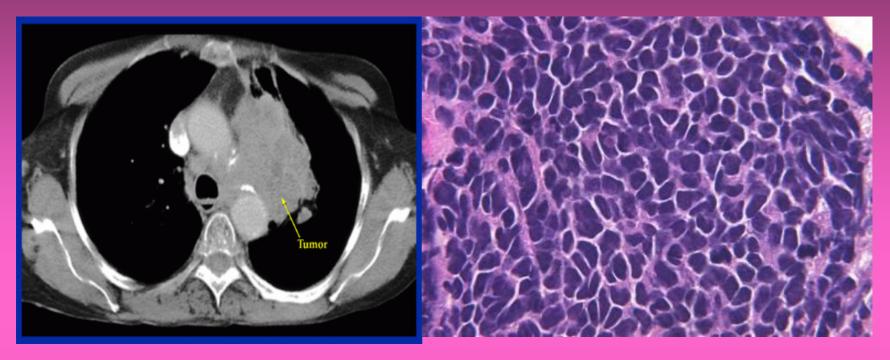
Bronchioloalveolar carcinoma





- Frequency: 2 %
- Smoking: yes
- Males = females
- Survival (5 years): 25 a 40 %.
- Presentation:
 - Single or multiple tumor nodules
 - Miliary tumor
 - "Pneumonic form"

Small cell carcinoma



- Frequency: 25 %
- . Smoking: 95% of patients
- . Males >> females
- . Survival (5 years): 1 5 %.



Large Cell Carcinoma

- Frequency: 10 %
- . Gross
 - Peripheral lesion
- . Microscopic
 - Wastebasket group of tumors that do not fit the criteria of a squamous cell carcinoma, adenocarcinoma, or small cell carcinoma

. Prognosis

- Similar to adenocarcinoma





Lung cancer in DK and probably also Cyprus

- Average tobacco use if new diagnosed lung cancer is 45 pack years
- 4% of lung cancer patients were never smokers
- J years survival was 35 %
- a 21% could be offered operation

100	
patients	





