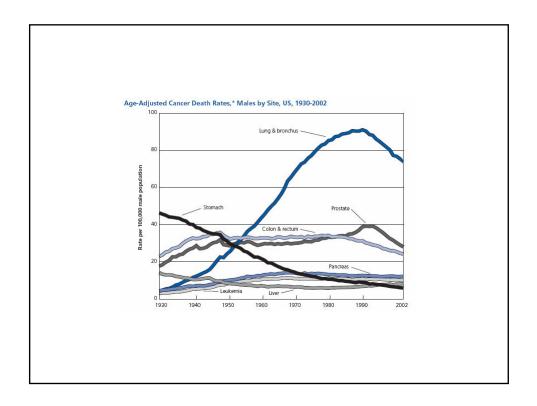
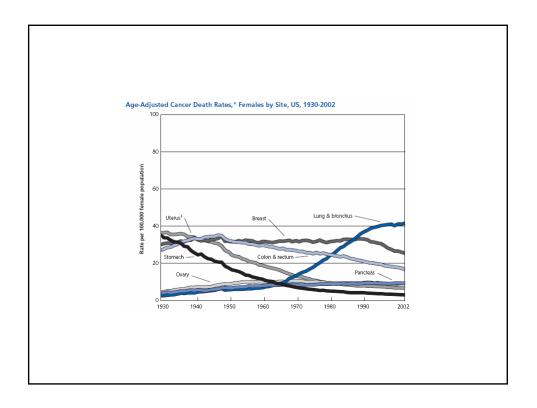




EPIDEMIOLOGY				
Cause	No. Cases	No. Deaths		
Lung	174,000	162,000		
Breast	213,000	41,000		
Colon	145,000	55,000		
Prostate	235,000	27,000		





	INTERNATIONAL VARIATION IN CANCER INCIDENCE				
	Japan	U.S.			
Gastric	High	Low			
Breast	Low	High			
Colon	Low	High			

## 2. ETIOLOGY

Cancer is a genetic disorder Genetic abnormalities can be:

a. Hereditary

b. Acquired

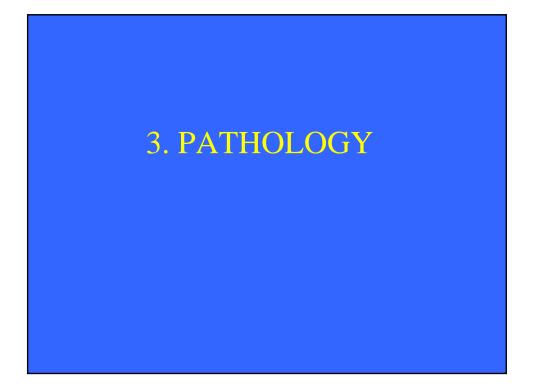
## 2. ETIOLOGY

Cancer is a genetic disorder Inherited genetic abnormalities i. 5q deletion – FAP – colon cancer ii. Mutations in BRCA1 and BRCA2 – breast, ovarian cancer iii. Spell checking genes – colon cancer

## 2. ETIOLOGY

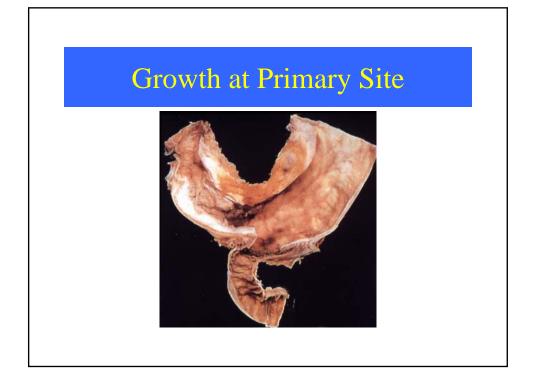
Cancer is a genetic disorder Environmental carcinogens

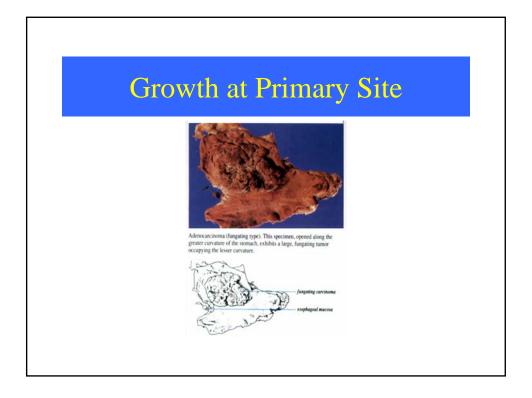
- i. Chemicals
- ii. Radiation
- iii. Infectious agents

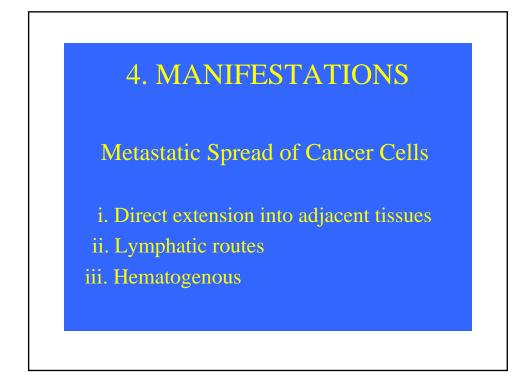


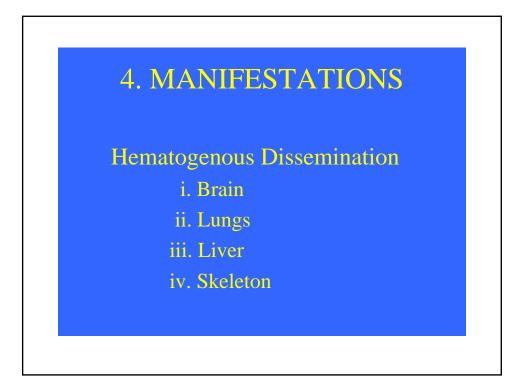
## 4. MANIFESTATIONS

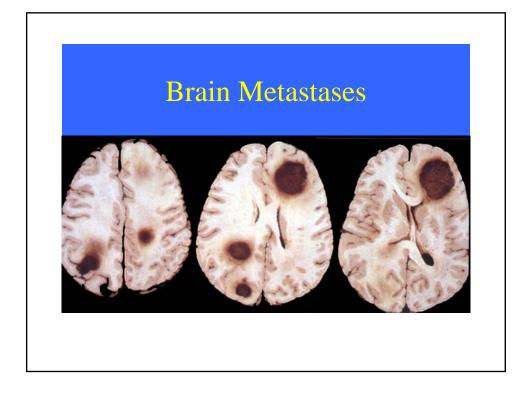
- i. Growth of malignant cells at primary site
- ii. Metastatic spread of tumor cells
- iii. Remote or paraneoplastic effects

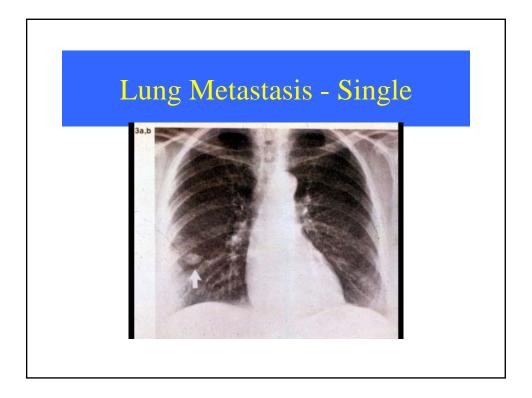


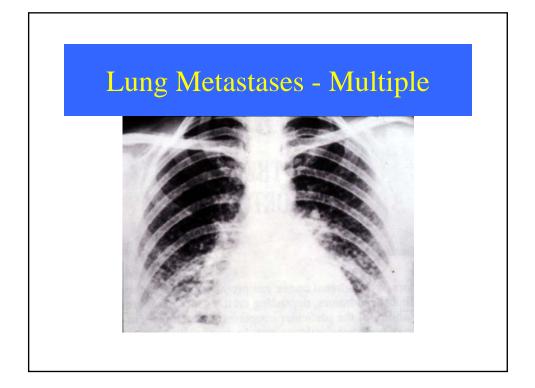


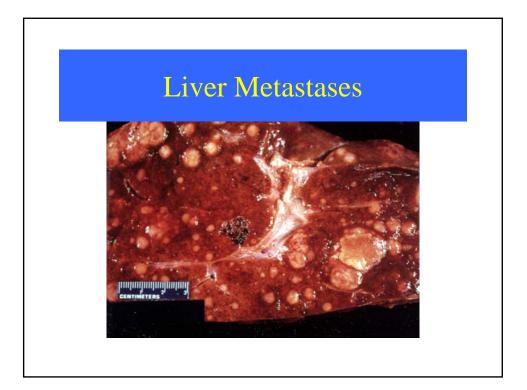


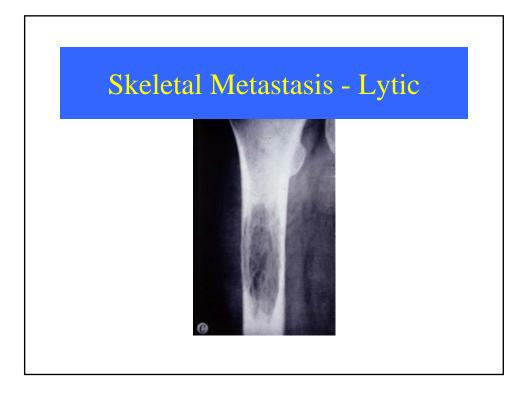


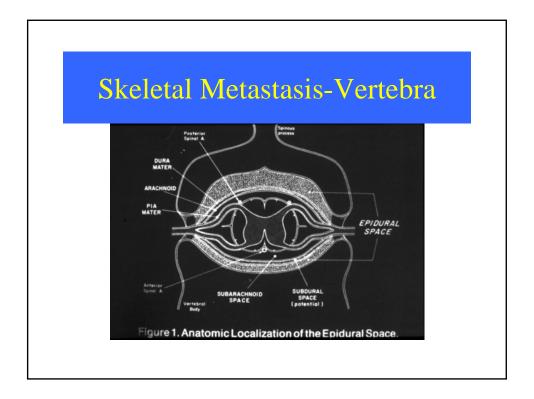


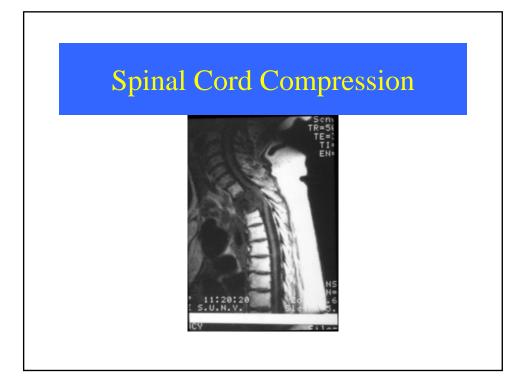


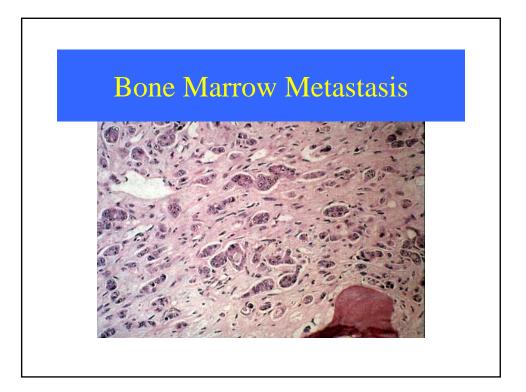


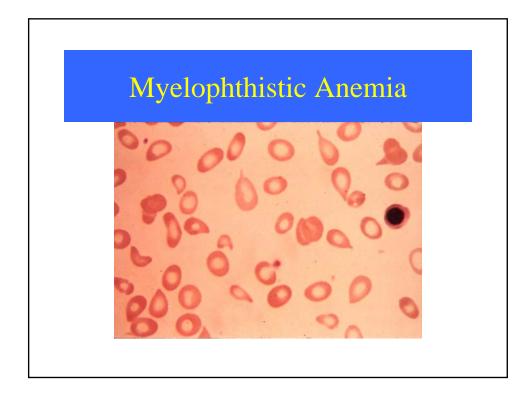


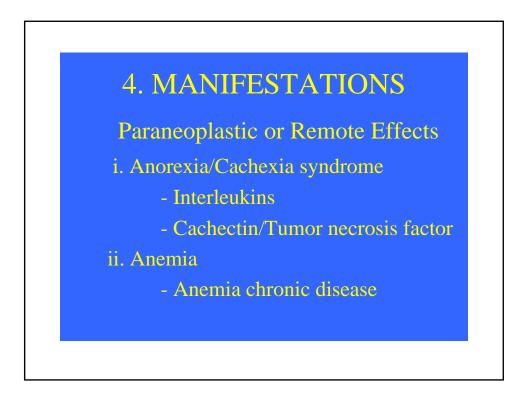


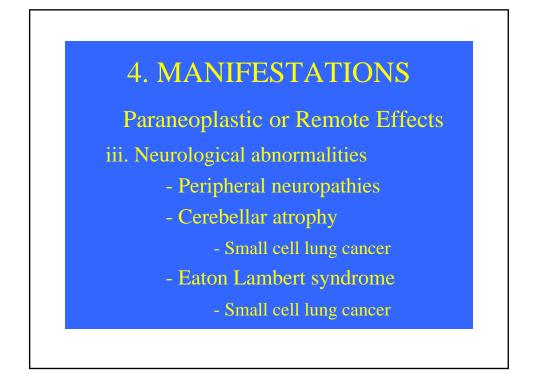


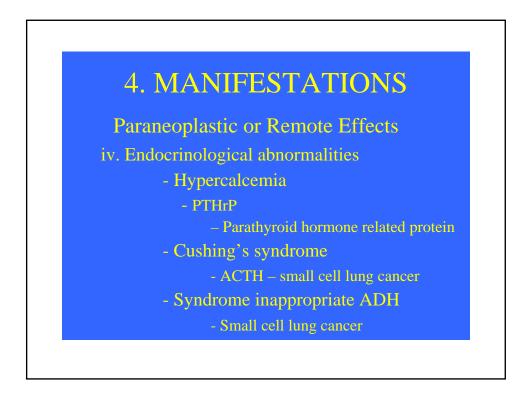














	Surgery	Radiation	Drugs
Advantages	Removes gross tumor rapidly	Effective against tumor masses, especially microscopic	Systemic Distribution
Disadvantages	No effect on distant metastases	No effect on distant metastases	Often non- specific effects. damage normal cells
	Leaves microscopic cancer deposits	Large tumor masses may not be effectively treated	Large tumor masses may contain resistan tumor cells
	Functional and cosmetic limits on extent of resection	Damage to normal tissues within radiation treatment field	Drug delivery limited to some tissues (e.g. blood-brain