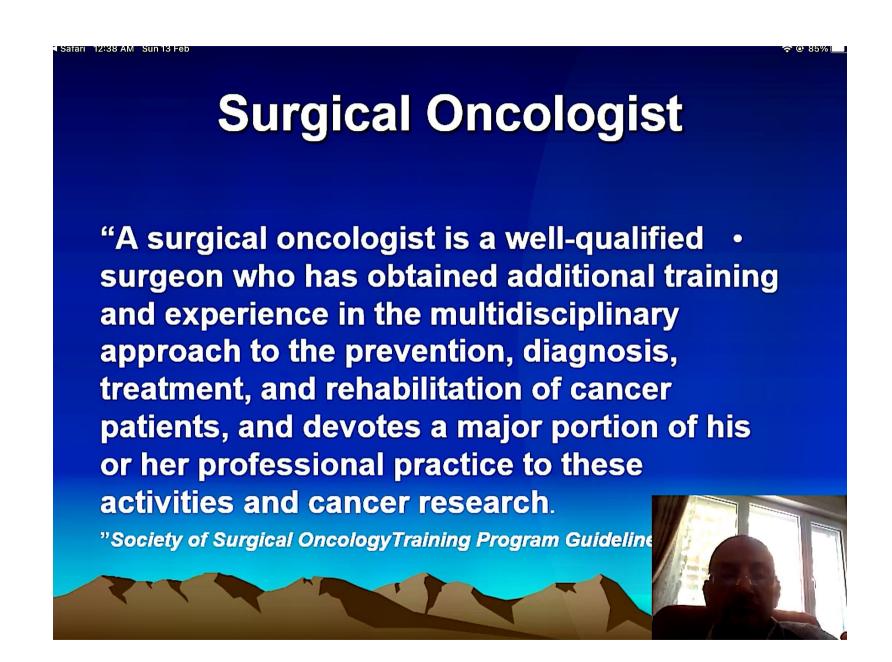


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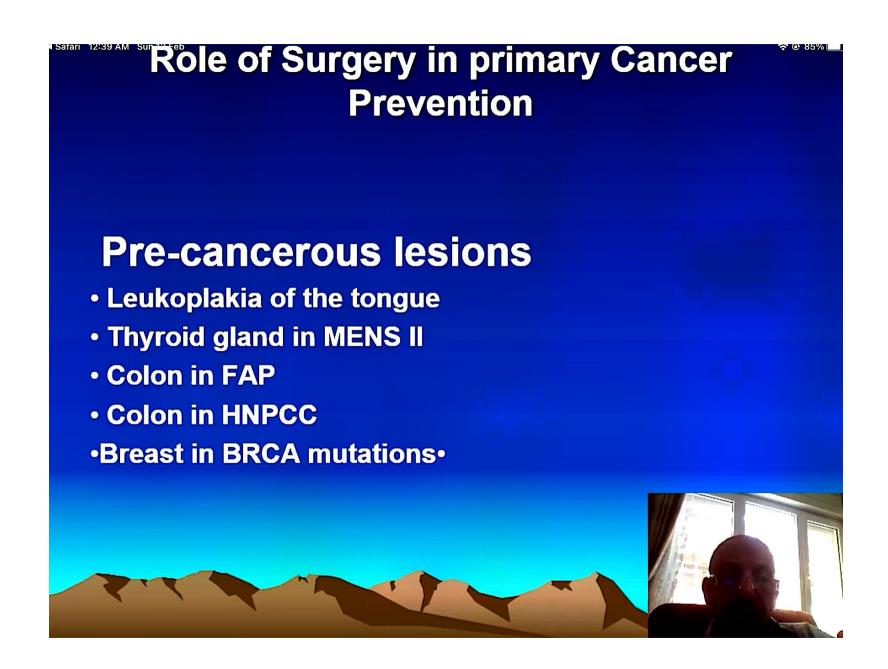




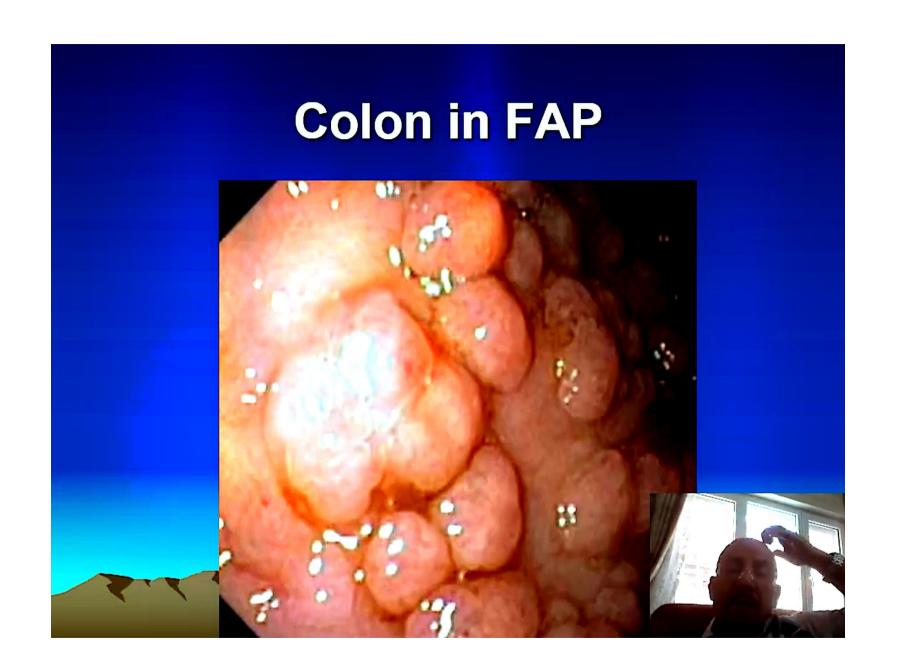




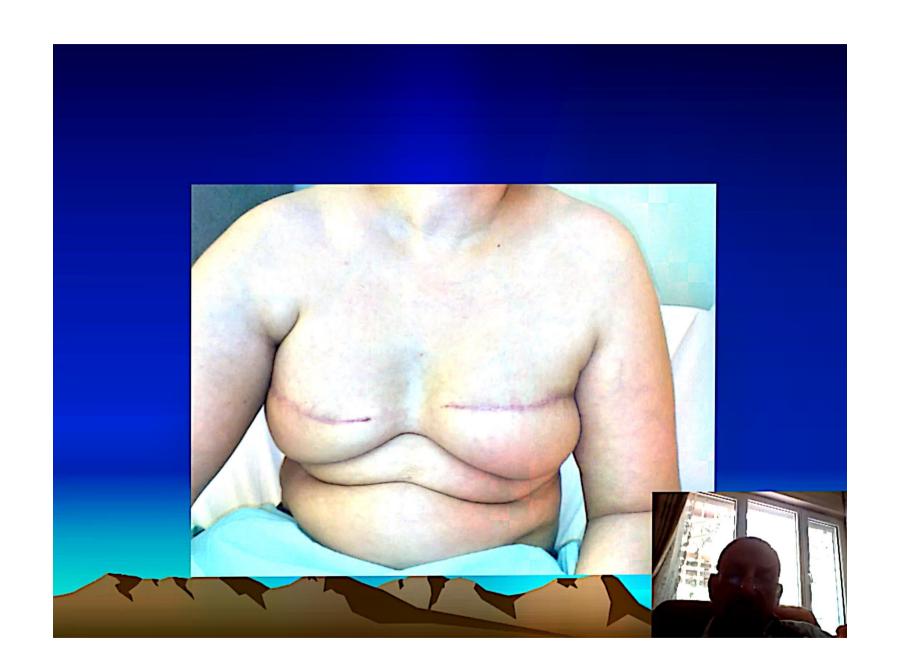








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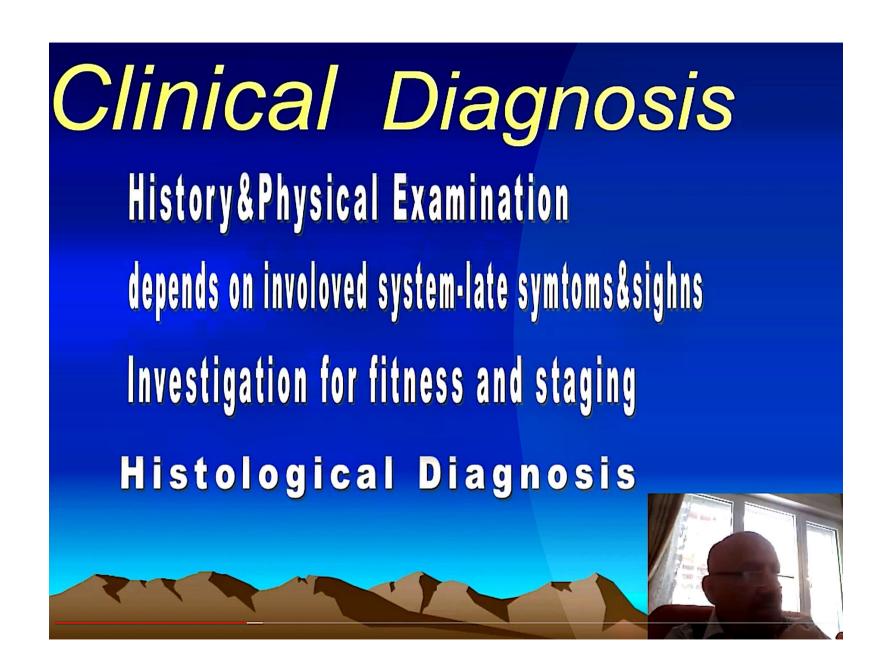


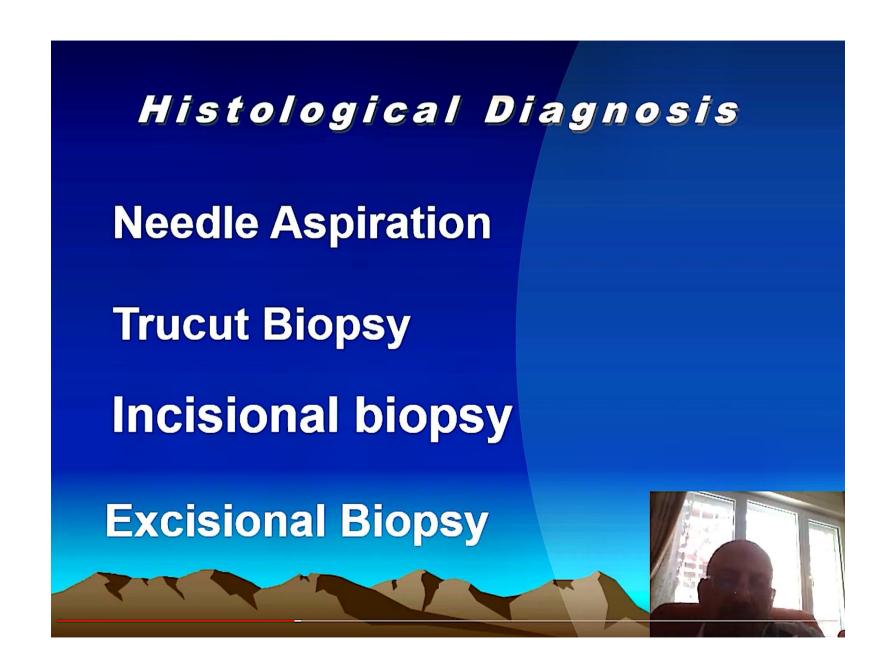
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- Colonoscopy in colon cancer
- Digital rectal examination in prostate cancer
- Clinical breast examination







Fine Needle Aspiration Biopsy (FNAB)

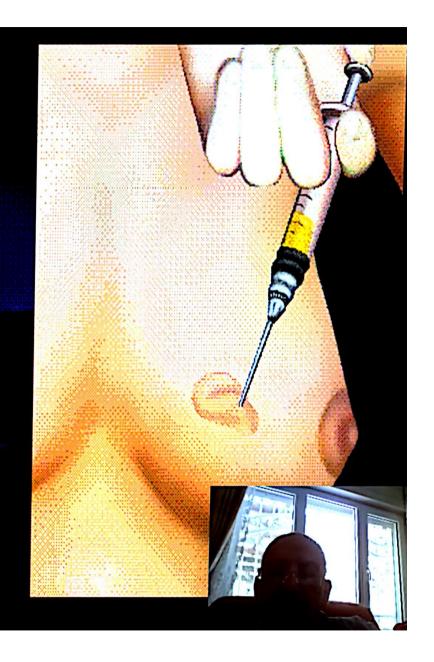
Fine needle aspiration biopsy is usually done in an office.

A small needle is inserted into the tumor and a sample of tissue is drawn up into the needle.

Material from the needle is put on a slide and examined for the presence of malignant cells.

It is a simple procedure done with minimal discomfort.

Disadvantage: May not always rule out cancer when it is negative.



Fine Needle Aspiration Biopsy (FNAB)

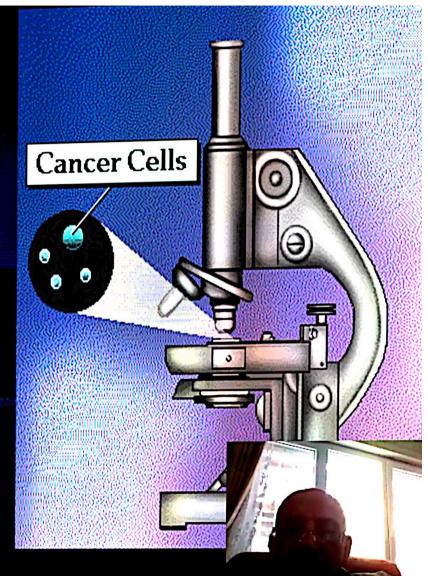
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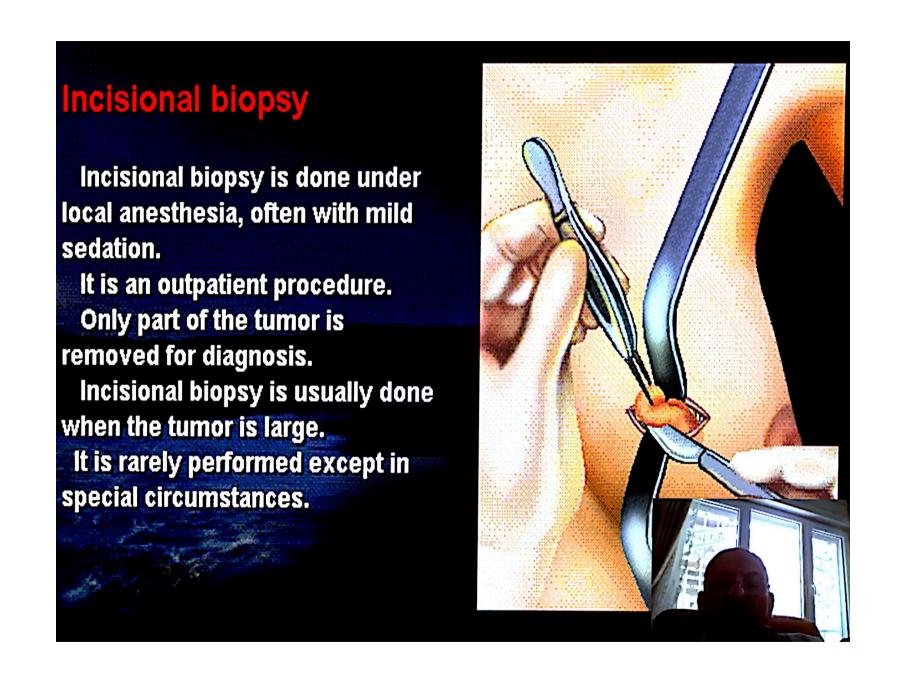
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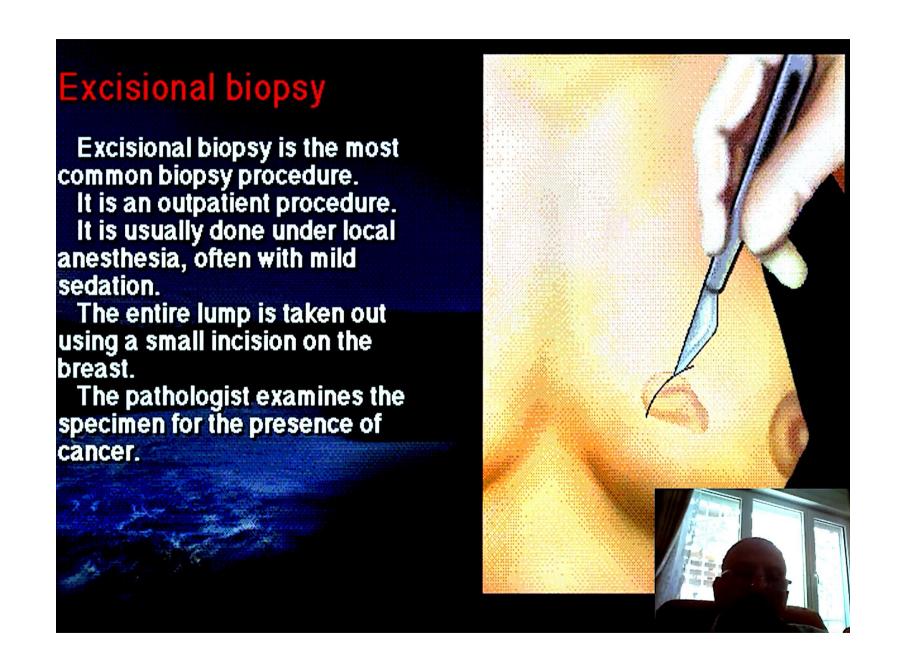
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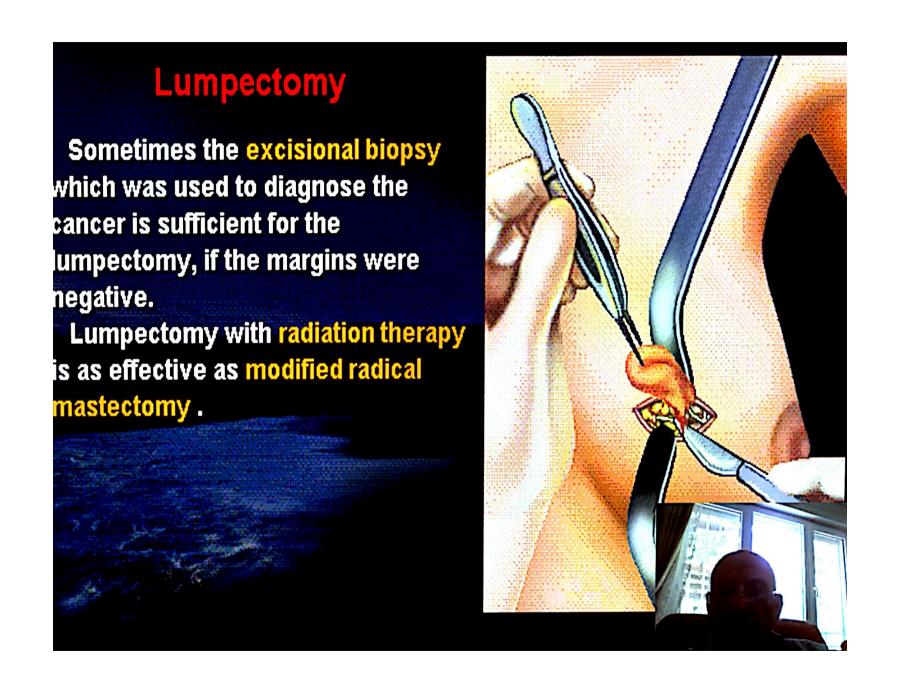
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Biopsy

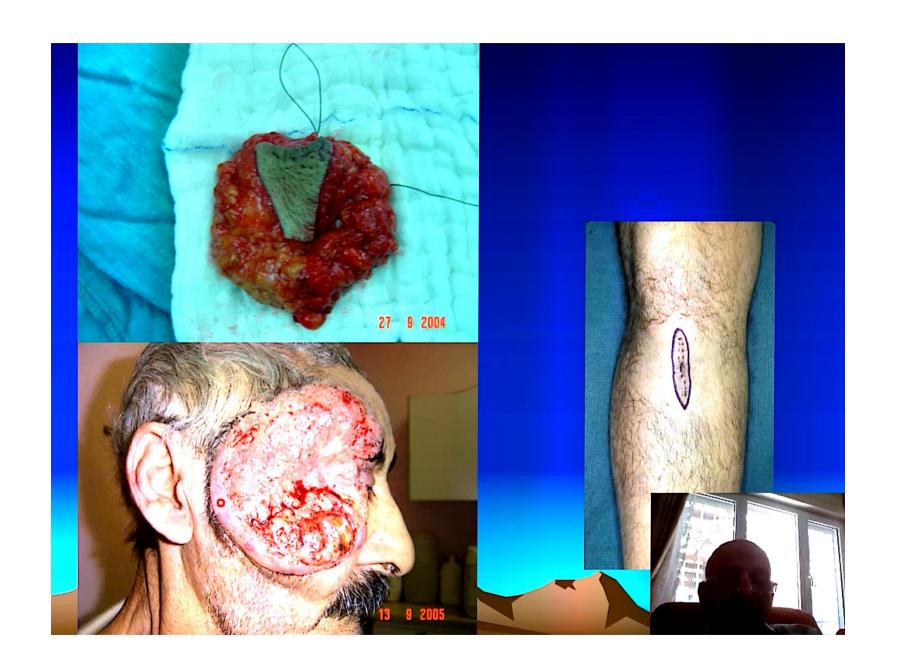
Surgeon's responsibilities:

- Selection of appropriate biopsy method and site
- •Responsible that the tissue reach the pathologist timely and properly.
- Communicate the results to the patient, family, other physicians
- Provide initial prognosis and information on follow-up care

Surgeon's Tasks in Performing Biopsy

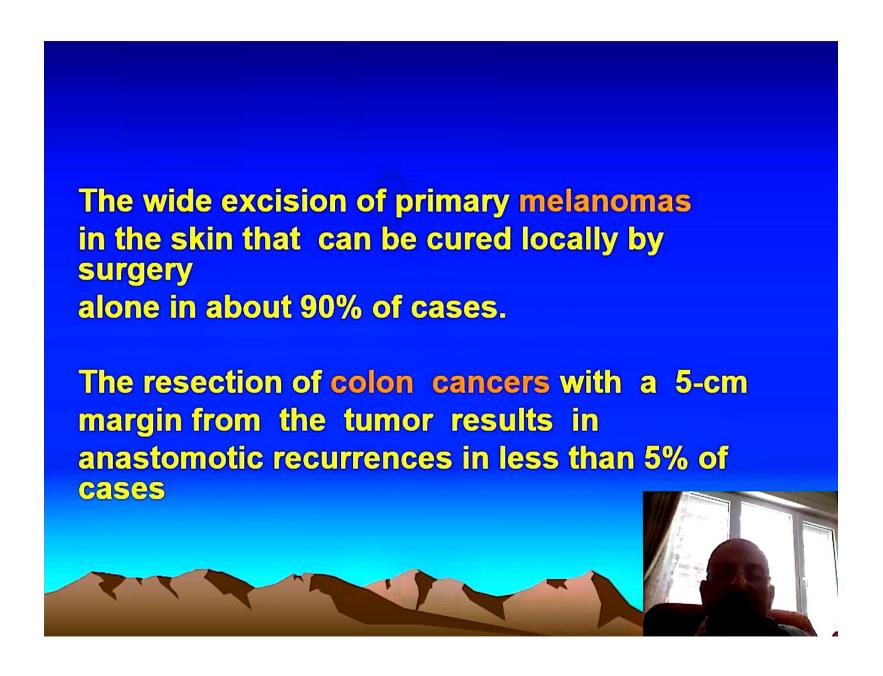
- Orient the specimen
- Ensure the integrity of the tissue plane
- •Ensure the adequacy of the tissue sample
- •Be sure tissue reach the pathologist!



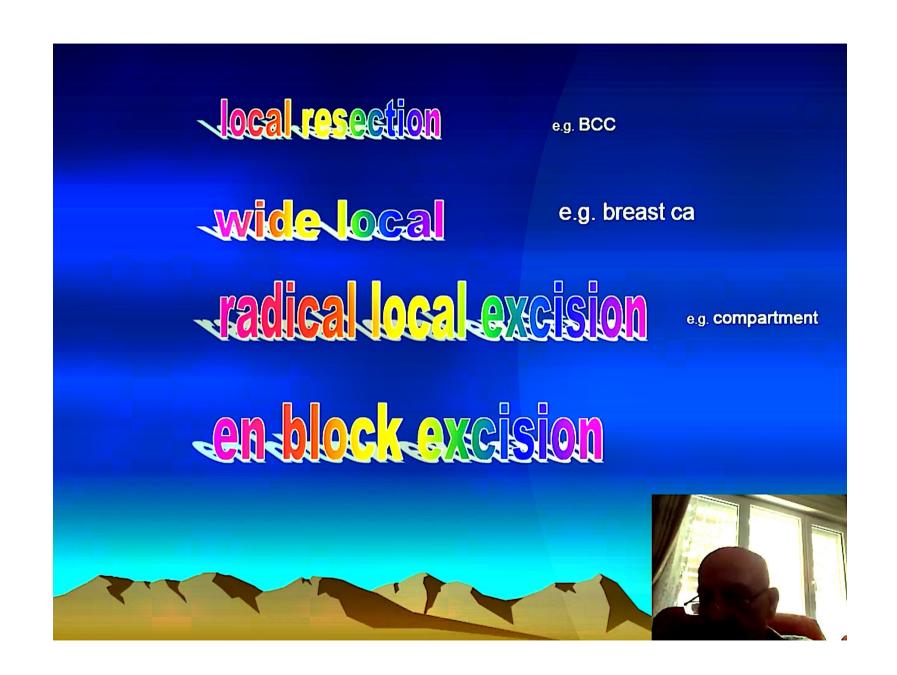


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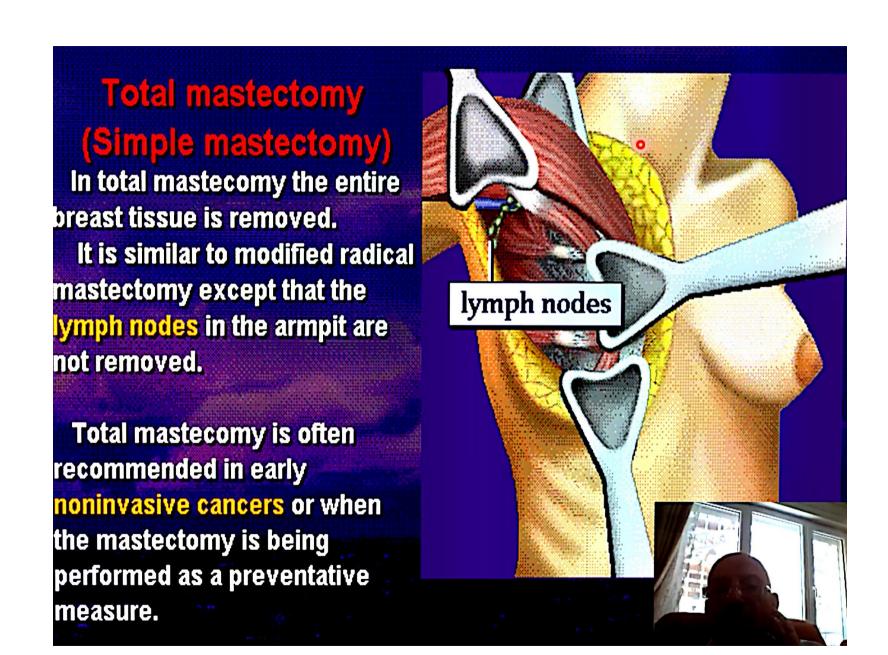


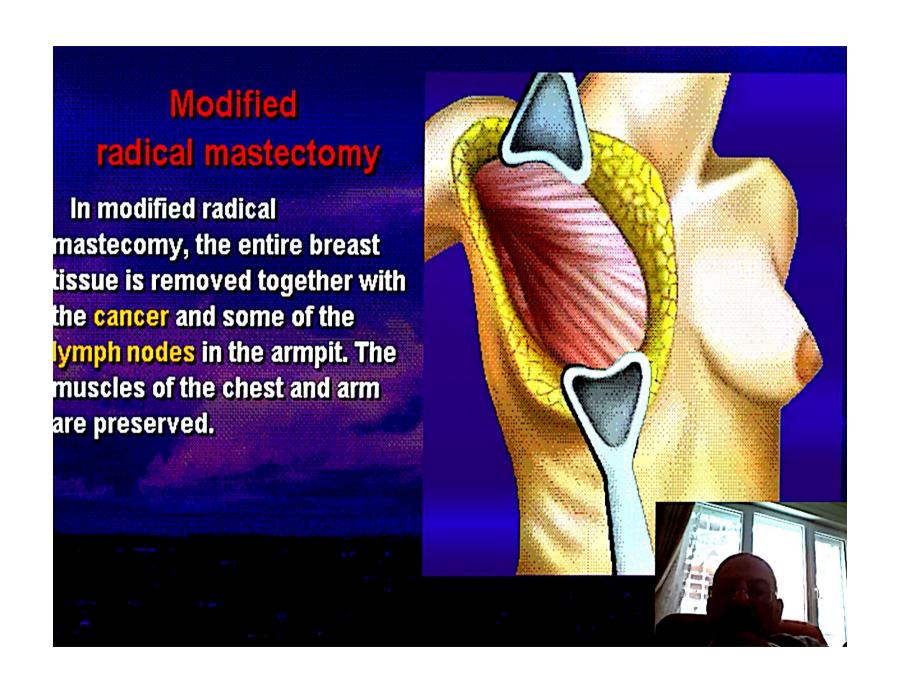


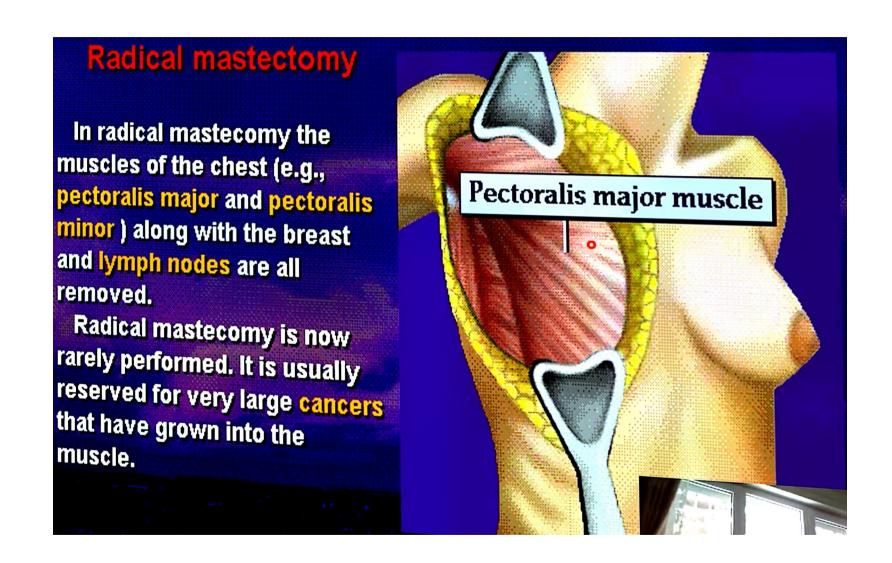


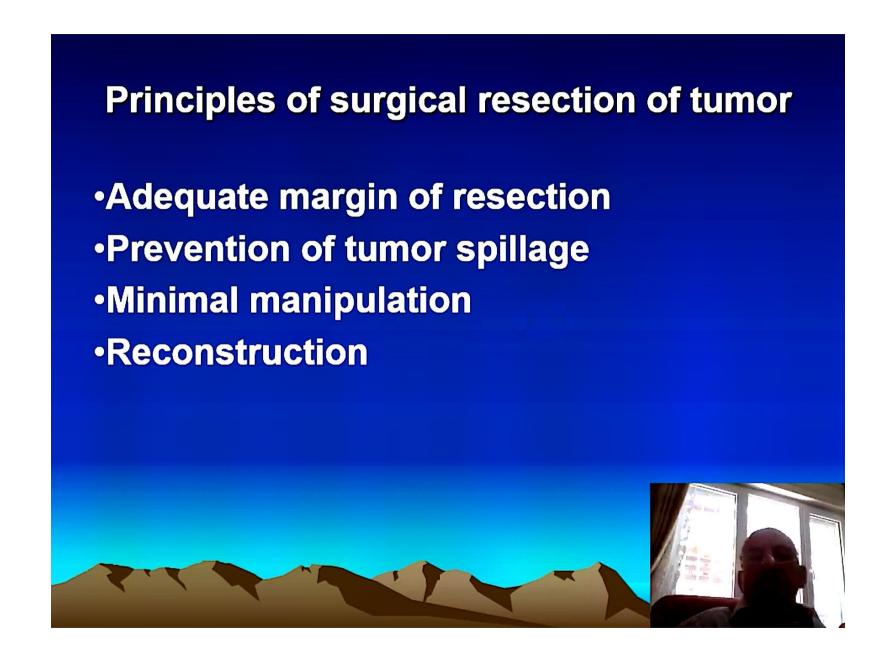


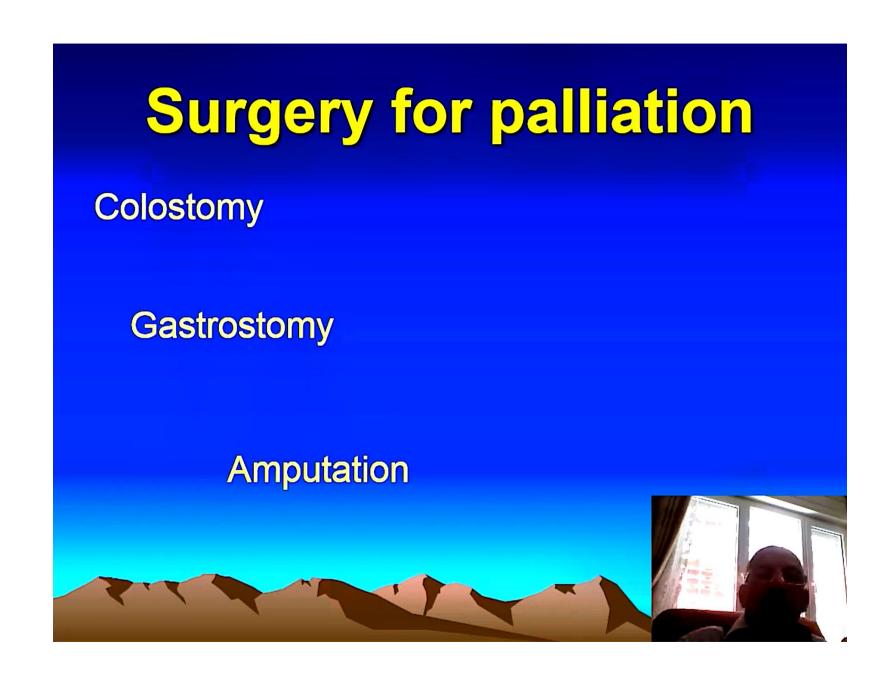
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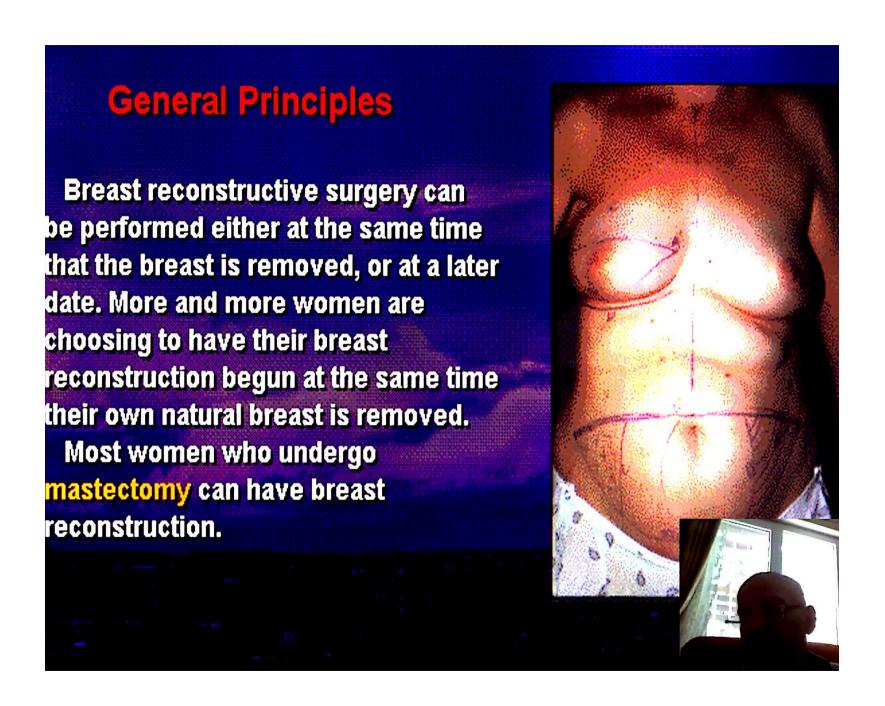




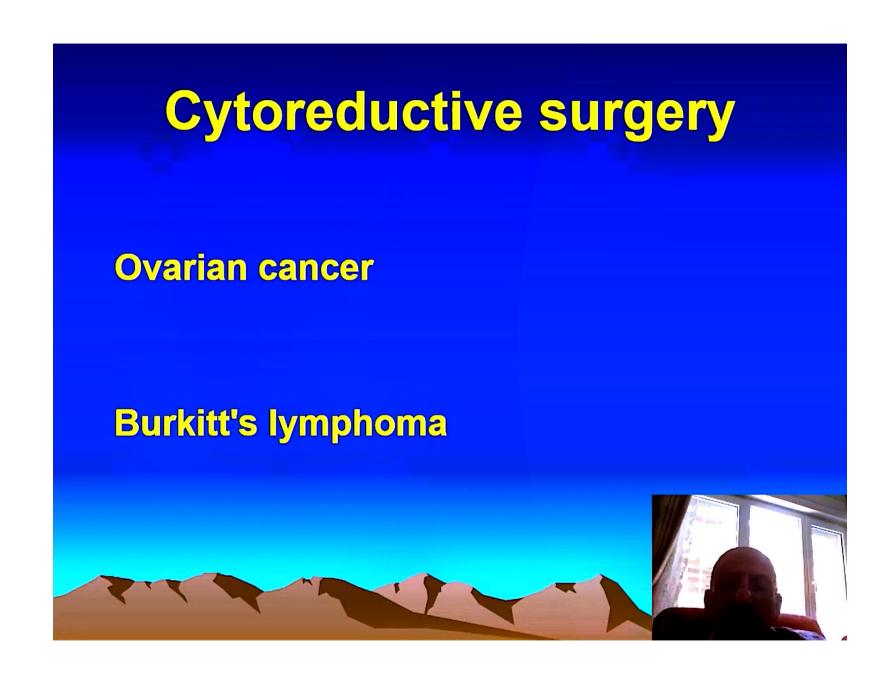














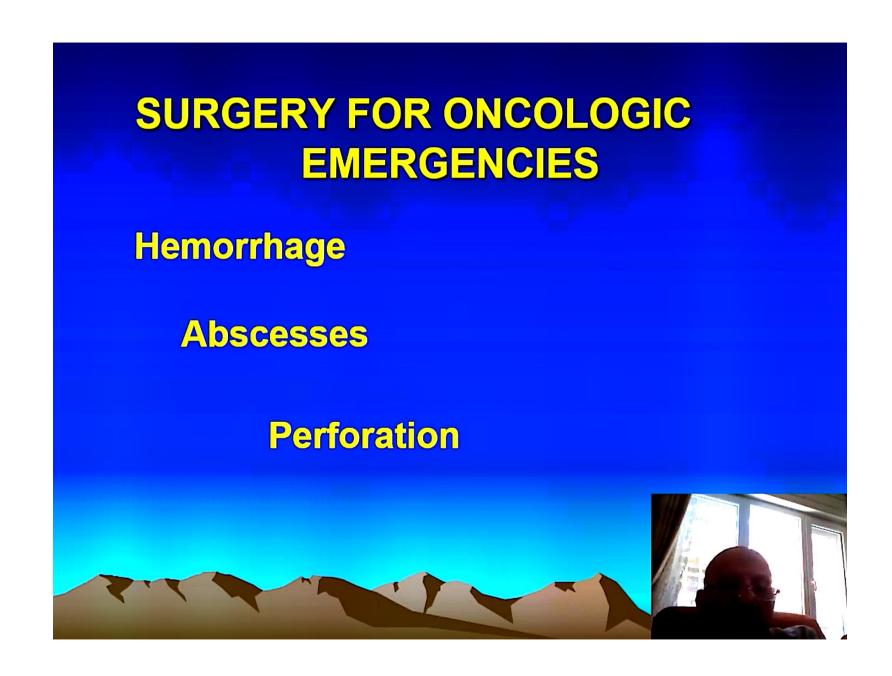
Metastasectomy

This is done when:

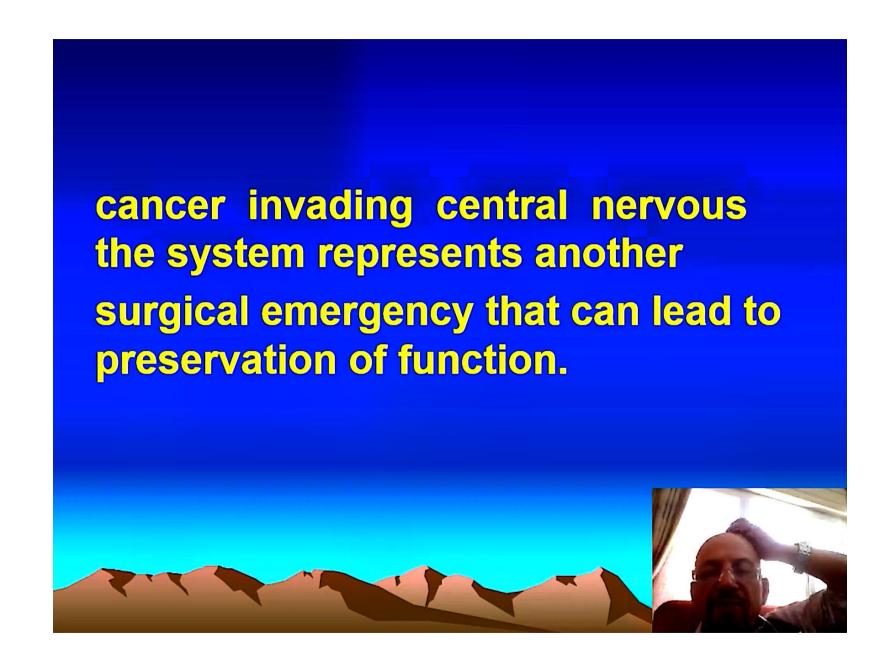
- The primary tumor is controlled or can be controlled
- Metastasis is single or multiple
- •Evidence that metastasectomy is associated clinical benefits
- Tumor doubling time is sufficiently long
- No significant co-morbid factor

Metastasectomy

- Complete resection of distant metastases improves five-year overall survival rates
- 40% for colorectal cancer with resection of liver metastases
- 30% for sarcoma with resection of lung metastases
- 16% for breast cancer with resection metastases







Venous access catheters A venous access catheter is a small, flexible, hollow tube, which is surgically placed into a large vein where it can be left for several months. Venous access catheters are used for repeated infusions of chemotherapy drugs, antibiotics, and other intravenous fluids. They can also be used for blood-drawing. Venous access catheters are useful Venous acce when veins are small or difficult to find.

