

For Breast Cancer

A program of the UAMS College of Pharmacy

Funded through unrestricted educational grants by Susan G. Komen Breast Cancer Foundation Arkansas Affiliate

Overview of Breast Cancer



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Breast Cancer

- The most common form of cancer among women
- The second most common cause of cancer related mortality
- 1 of 8 women (12.2%)
- One third of women with breast cancer die from breast cancer



- Female (1% male)
- Aging
- Relative (mother or sister)
- Menstrual history
 - early on set
 - late menopause
- Child birth
 - After the age of 30



Exogenous Estrogen

- Hormonal replacement therapy(HRT)
 - 30% increased risk with long term use
- Oral Contraceptives(OC)
 - risk slight
 - risk returns to normal once the use of OC's has been discontinued



Risk Factors for Breast Cancer

- Radiation exposure
- Breast disease
 - Atpyical Hyperplasia
 - Intraductal carcinoma in situ
 - Intralobular carcinoma in situ
- Obesity
- Diet
 - Fat
 - Alcohol



Genetics

- BRCA-1
- BRCA-2
- P53, Rb-1
- Her-2/neu, c-erB2, c-myc



Staging of Breast Cancer

- The American Joint Committee on Cancer (AJCC) has designated staging by TNM
- T= tumor size
- N = lymph node involvement
- M = metastasis

Stage 1

- Tumor ≤ 2.0 cm in greatest dimension
- No nodal involvement (N0)
- No metastases (M0)



Stage II

- Tumor > 2.0 ≤ 5 cm
 or
- Ipsilateral axillaty lymph node (N1)
- No Metastasis (M0)



between 2 and 5 cm

Stage III

- Tumor > 5 cm (T3)
- or ipsilateral axillary lymph nodes fixed to each other or other structures (N2)
- involvement of ipsilateral internal mammary nodes (N3)
- Inflammatory carcinoma (T4d)

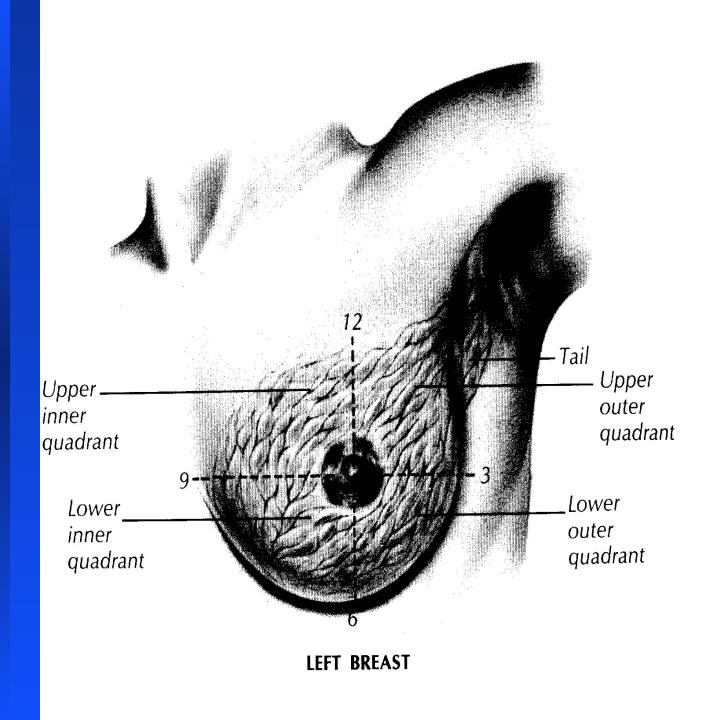
Stage IV (Metastatic breast cancer)

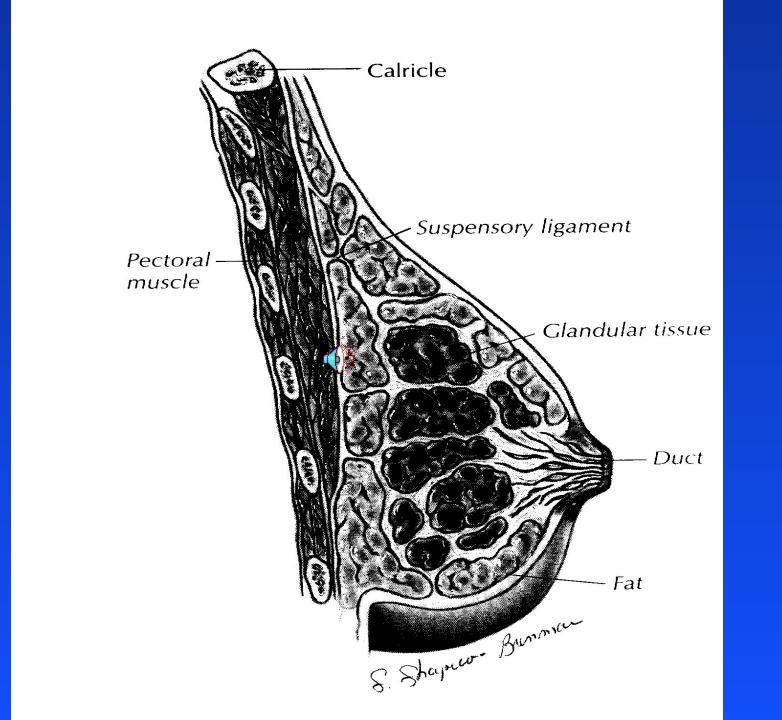
- Any T
- Any N
- Metastasis (M1)

Types of breast cancer

- In situ
 - Intraductal (DCIS)
 - Intralobular (LCIS)
- Invasive
 - Infiltrating ductal carcinoma
 - Tubular carcinoma
 - Medullary carcinoma
 - Mucinous carcinoma

Symptoms and Screening





Normal breast physiology and anatomy Symmetry and balance Size

- weight
- menstrual cycle
- pregnancy and lactation
- Texture
- Shape
 - age

Abnormal signs and symptoms

- Puckering
- Dimpling
- Retraction
- Nipple discharge
- Thickening of skin or lump or "knot"
- Retracted nipple

Abnormal signs and symptoms

- Change in breast size
- Pain or tenderness
- Redness
- Change in nipple position
- Scaling around nipples
- Sore on breast that does not heal

Methods of Detection

Clinical exam by MD or nurse
Mammography
Monthly breast self-exam (BSE)

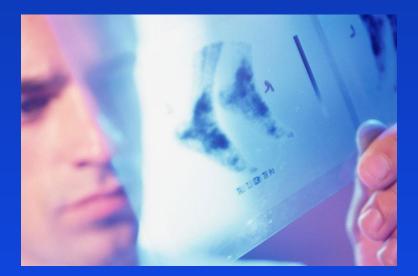
Clinical examination

- Performed by doctor or trained nurse practitioner
- Annually for women over 40
- At least every 3 years for women between 20 and 40
- More frequent examination for high risk patients



Mammography

- X-ray of the breast
- Has been shown to save lives in patients 50-69
- Data mixed on usefulness for patients 40-49
- Normal mammogram does not rule out possibility of cancer completely



Mammography

American Cancer Society recommends:

Women (asymptomatic) 40 years of age and older should have a mammogram every year.

Mammography-more guidelines

- Mammogram facility guidelines
- Avoid mammogram week before period
- Don't wear deodorant powder or cream
- Bring a list of the places and dates of other mammograms, biopsies you've had before
- If you don't hear from the MD within 10 days, call the facility

Free Mammograms

- Medicare
- Arkansas Breast Cancer Control Program
- Breast and Cervical Cancer Control Program of the Arkansas
 Department of Health

Medicare

• Women over 65

Arkansas Breast Cancer Control Program

- Started in 1999
- Eligibility
 - Women 40 or older
 - No insurance
 - Income at or below 2 times the poverty level
 - Call county or state heath department
 - 1-800-482-5400

Eligibility for ABCCCP Mammogram

- 50 years or older and
- At or below 200 percent poverty OR
- Between 40 and 49 and
- A breast cancer survivor or have a mother, daughter, or sister who has breast cancer and
- At or below 200 percent poverty

Breast Self Examination

- Opportunity for woman to become familiar with her breasts
- Monthly exam of the breasts and underarm area
- May discover any changes early
- Begin at age 20, continue monthly



When to do BSE

- Menstruating women- 5 to 7 days after the beginning of their period
- Menopausal women same date each month
- Pregnant women same date each month
- Takes about 20 minutes
- Perform BSE at least once a month
- Examine all breast tissue



Why don't more women practice BSE? • Fear

- Embarrassment
- Youth
- Lack of knowledge
- Too busy, forgetfulness



Conclusion

Pharmacists have a responsibility as patient advocates for breast cancer awareness

