Kopans

Chapter 11 : page 329

Good screening program

Should pick up 30-50% l cm or less in size

20-30 % should be DCIS

First time screens: Tough, miss more that you pick up initially

but they can be caught early with subsequent screens.

Chapter 25: Page 1013: The False Negative Mammogram

Dense breasts (DBT helps now )

Many, if not most occur in women whose tissues are not dense. That is where positioning comes into the discussion.

- 1. Not properly positioned.
- 2. Tissue not included (PNL, IMF missing etc. )
- 3. Motion
- 4. Tissue not compressed
- 5. Nipple in cc view not profiled (these tumors may be more advanced when detected.)
- Poor quality images not high resolution (equipment).Not a problem in our Region.
- 7. Inability to get to blind spots despite best efforts (high in armpit, close to chest wall). About 1/2 missed are unavoidable!!! These tumors just do not produce changes that we can see. 1/3 are missed by interpretor error. Just miss them. CAD and experience helps.

#### **Keys to Early Detection are:**

- Compassionate, Patient, Dedicated Technologist and a Relaxed Patient
- · High quality images
- · Well trained, motivated technologists
- Experienced interpreter; remember experienced interpreter cannot compensate for poor quality mammography and strict attention to positioning and quality control should be a constant obligation.



2019

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## Mammography Imaging Update

### 6th Annual PLEA of GRNY

Multidisciplinary CME Accredited City Wide Breast Cancer Seminar

Breast Cancer Screening, Positioning, and Early Detection

# How Mammography Can Save a Life

#### References

Third Edition
BREAST IMAGING
Daniel B. Kopans

Lippincott Williams & Wilkins

Chapters 3: Epidemiology, Etiology risk factors and

Survival from breast cancer

Chapter 6: Staging of Breast Cancer

Chapter 10: Mammographic Positioning

Chapter 25: The Breast Report and Reasons for false

negative mammograms

2. IARC Handbooks of Cancer Prevention International Agency for Research on Cancer

- World Health Organization

Volume 7

**Breast Cancer Screening** 

3. Healthline

Kopans:

Chapter 6 page 205 TNM

(T = Tumor size)

(N = Nodes)

(M = Metastasis)

T0, T1, T2, T3

T0: DCIS



T1: Tumor 2 cm or less in greatest dimension (a,b,c)

T2: Tumor 2-5 cm

T3: Tumor greater than 5 cm

T4: Tumor any size with chest wall involvement excluding pectoral muscle, skin

N = Regional Lymph Nodes

NX: Unable to evaluate / removed previously

N0: no nodes

NI: movable node on same side as tumor

N2: Metastasis to nodes on same side, matted or internal mammary

N3: Infraclavicular nodes

M = Metatasis

Mx: Cannot be assessed

M0: No distant metastasis

MI: Distant metastasis

#### Healthline

#### Stage Matters

US Women		<b>US</b> men
Stage 0:	100%	~ same
Stage 1:	100 %	
Stage II:	93%	
Stage III:	<b>72</b> %	
Stage IV:	22 %	

NCI estimates 61.4% of women are diagnosed stage 1

#### Mammography vs. Clinical

3mm vs 3 cm