



Dr Erica Whineray Kelly

Breast Surgeon, Auckland

Diagnosis of Breast Cancer - Concurrent Workshop Session Repeated

Saturday, 11 June 2011

Start 11:00am

Duration: 55mins

Sovereign

Start 12:05pm

Duration: 55mins

Sovereign

 
Rotorua GP CME 2011

General Practice Conference & Medical Exhibition



09-12 June 2011 | Energy Events Centre | Rotorua

Diagnosis of Breast Cancer

Dr. Erica Whineray Kelly
FRACS



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The Stats....

- 2,750 women diagnosed per year
- 650 women die per year
- Incidence:
1/8 women will develop breast cancer
in their lifetime.

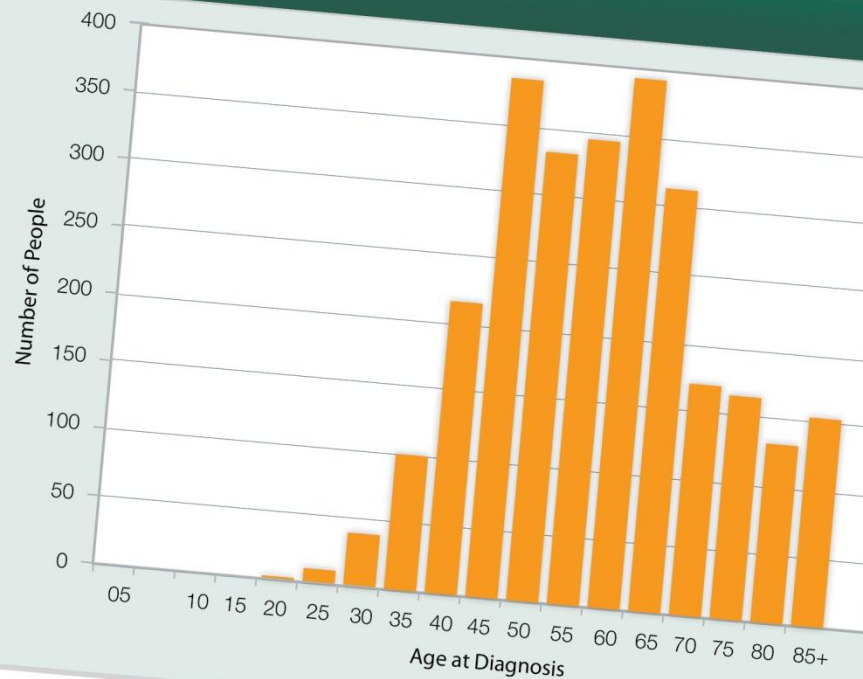


The Stats...

- Peak diagnosis 60- 65 years
- 5% < 40 years
- 22% women 40-50 years
- 22% > 70 years
- 10% > 80 years



Age Diagnosis 2009

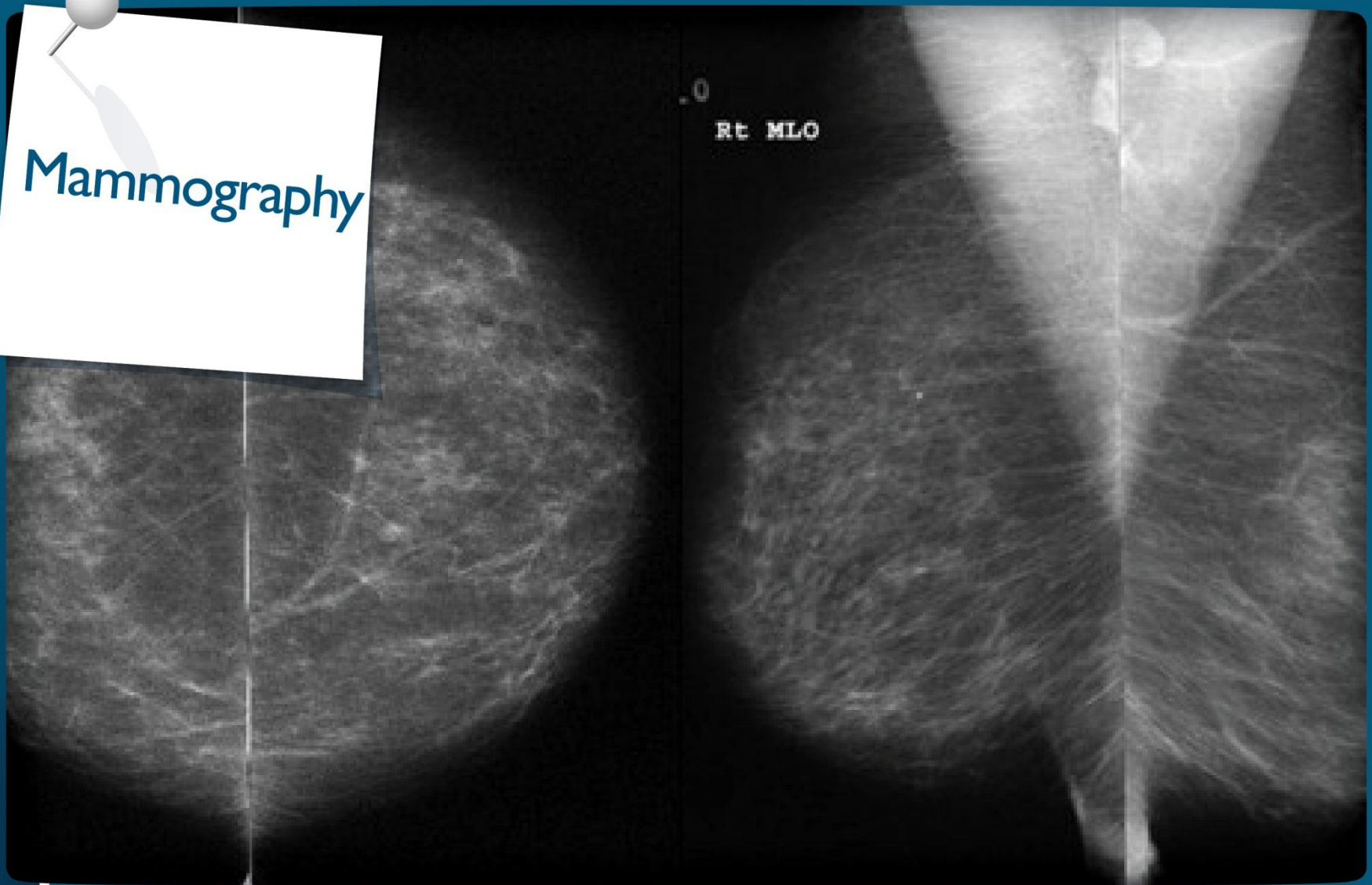


Investigative Tools

- Mammography
- Ultrasound
- Thermography
- MRI
- CT
- PET- CT



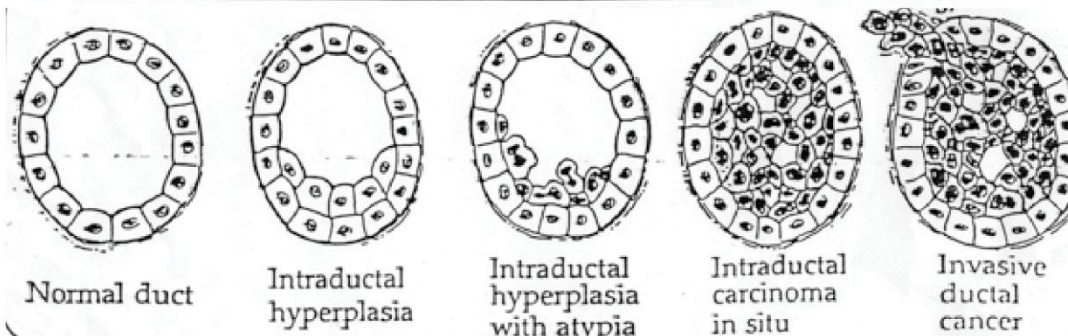
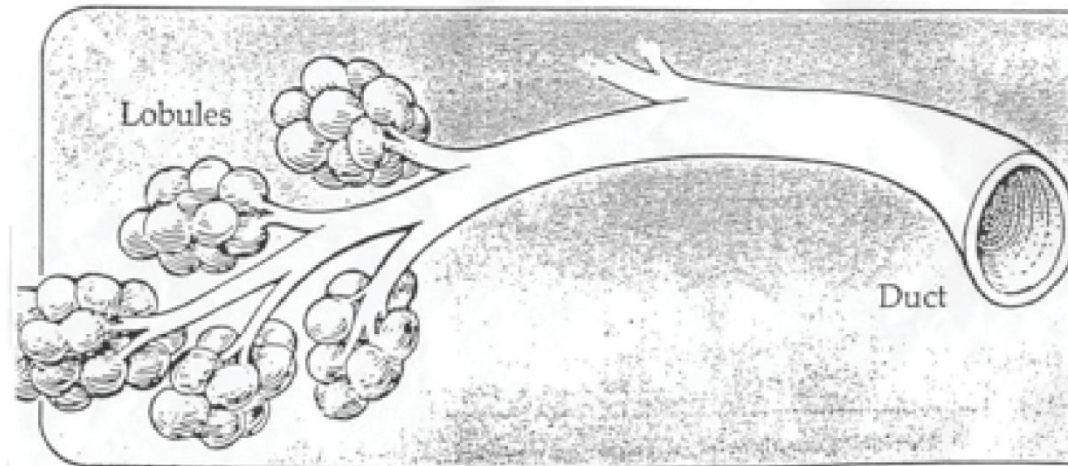
Mammography



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Normal duct

Intraductal hyperplasia

Intraductal hyperplasia with atypia

Intraductal carcinoma in situ

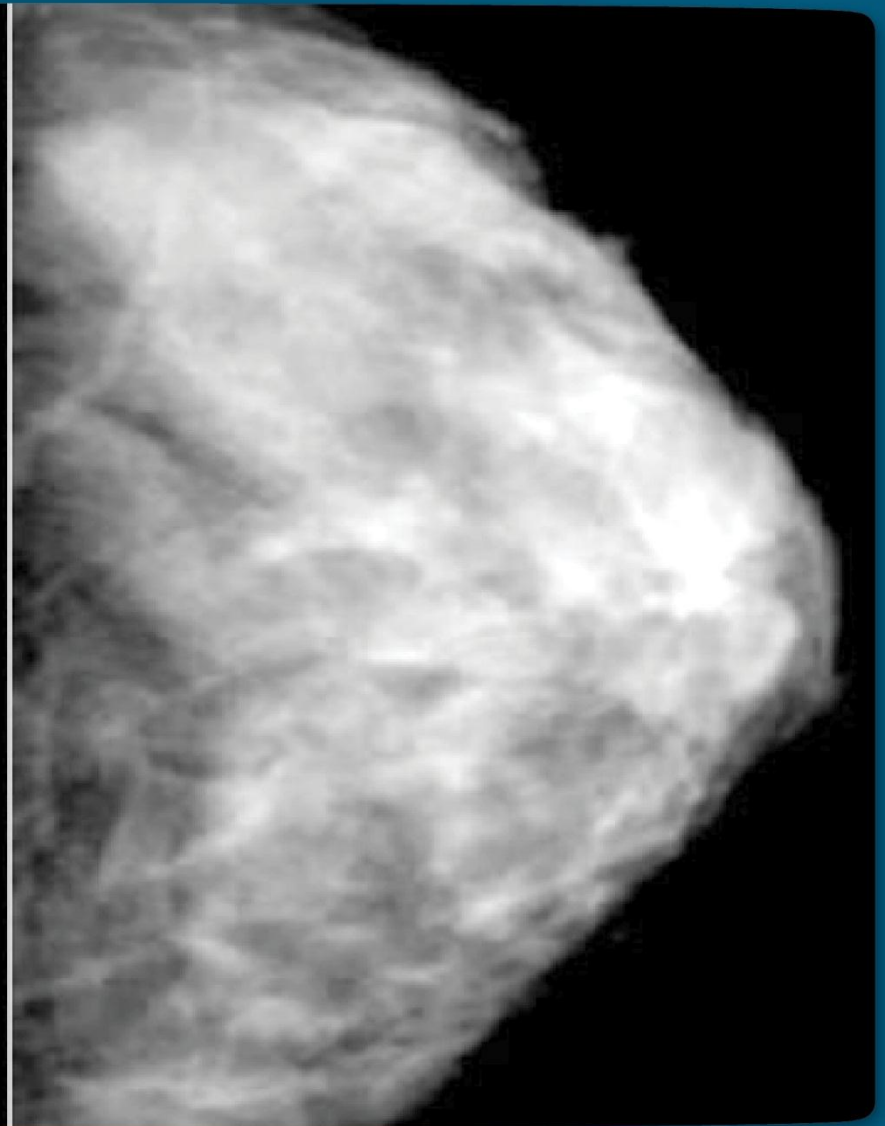
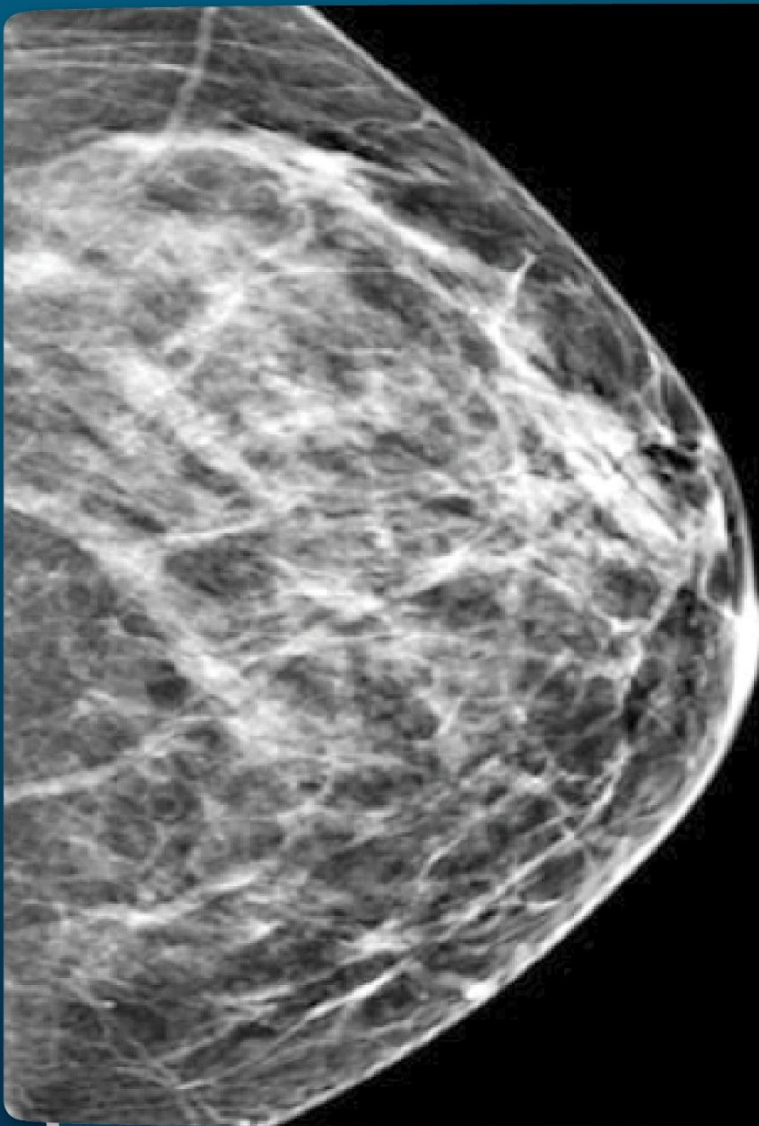
Invasive ductal cancer



- Overall 90% accurate in detecting breast cancer.
- Approaching 98% in women over 70 but as low as 75% in women between 40-50 years.
- Only modality shown to reduce mortality from breast cancer in the screening (asymptomatic) population. Between 25-76%

Digital Mammography

- Newer modality
- DMIST Trial-More cancers detected in pre and peri-menopausal, dense breasts and women under 50 years.
- Less radiation, less compression, easy storage.
- BSA -5 year plan for changeover.



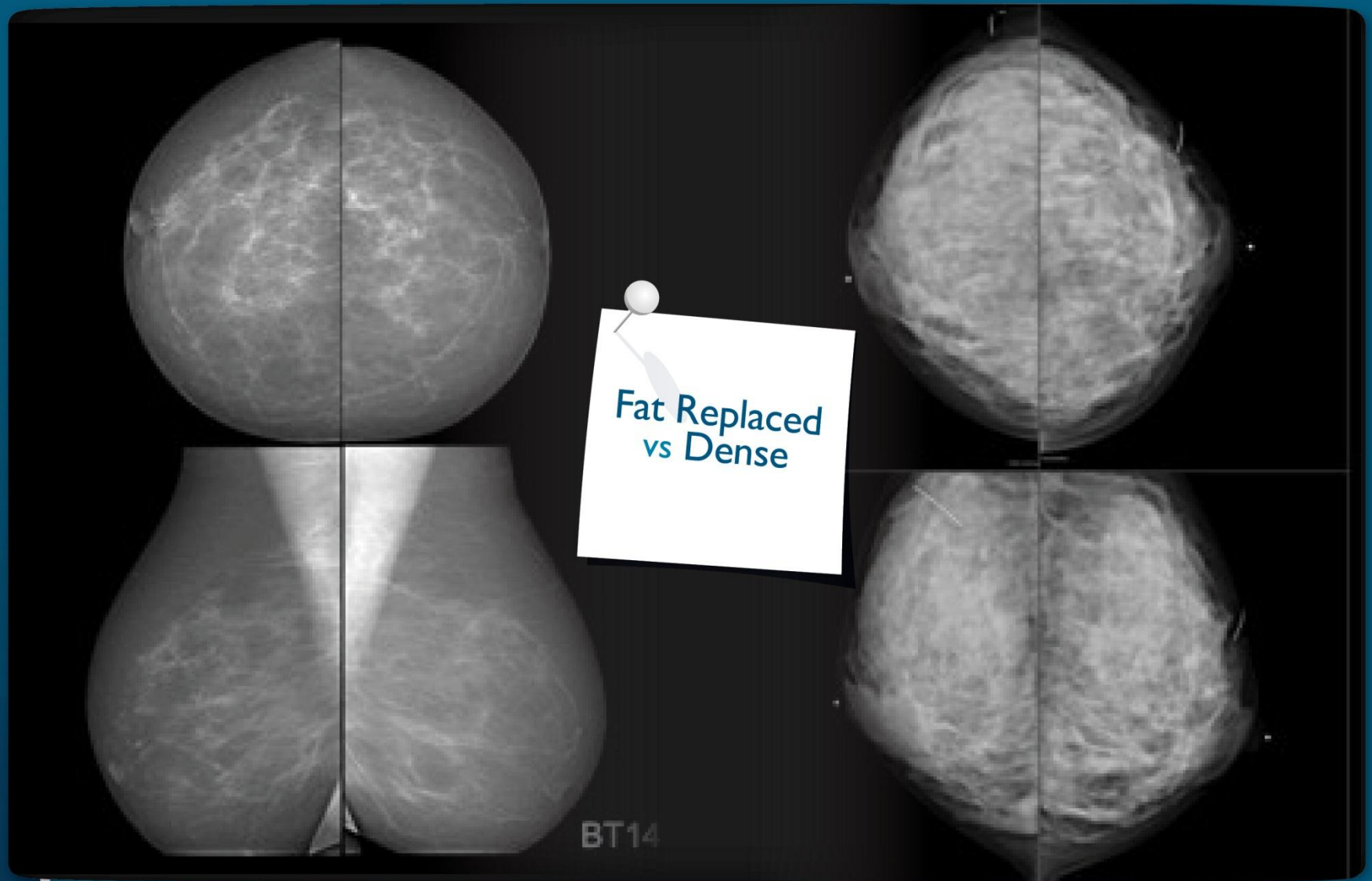
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Screening Recommendations

- BSA 45-69 years Biannual
Population based
Reduce cancer mortality by 20-30%
Difficult to get > 65% attending
- ABC 40- Annual
22% cancers 40-50
Difficult to identify due to dense breasts
Rapid growth requires shorter interval



When to stop?

- 70 years chosen arbitrarily with original screening studies
- Now health expectancy much higher
In the 2006 Social Security Data
 - 80 years- 9.33 years left
 - 75 years- 12.5 years left
 - 90 years- 4.5 years left



*We recommend mammography from
40- stop when less than 5 years of healthy
life-expectancy*

- “Harms”:
 - Recall every 12 years
 - Negative biopsy every 149 years
 - Missed cancer every 1,000 years
This most significant risk is reduced by more frequent screening.
 - Fatal radiation induced breast cancer every 76-97,000 years.

Ultrasound

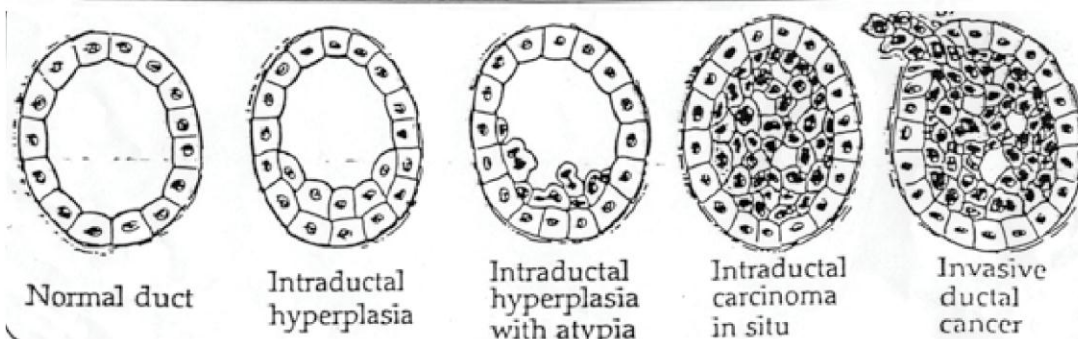
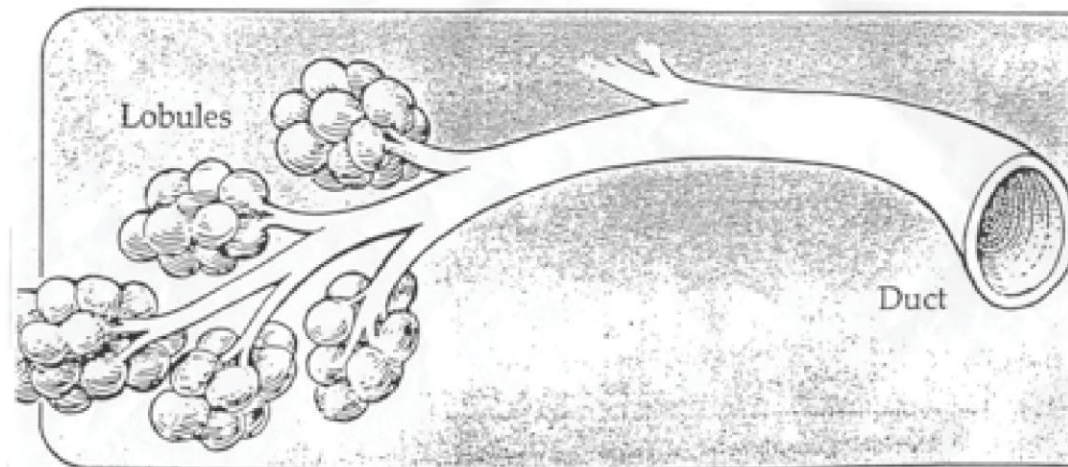
Screening

- not as accurate as mammography
- in combination with mammography adds extra 1 to 2% accuracy

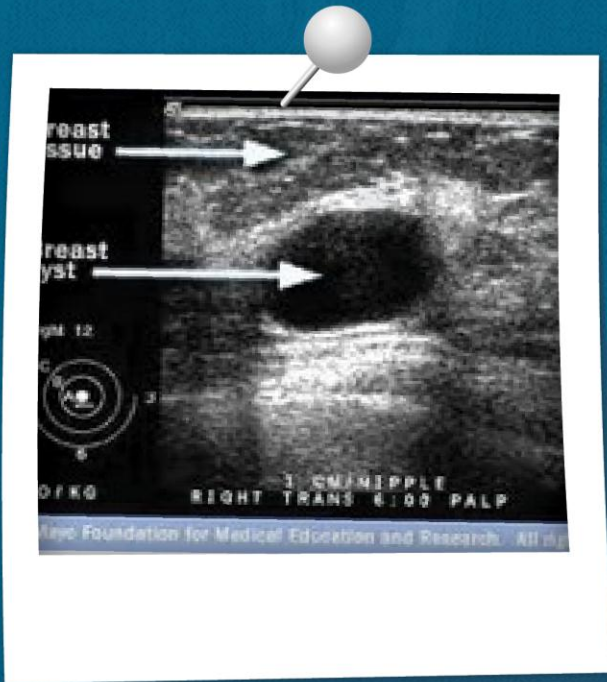
Used for workup of an abnormality:

- symptoms eg nodularity
- palpable lump
- mammographic density
- guided biopsy, lymph nodes





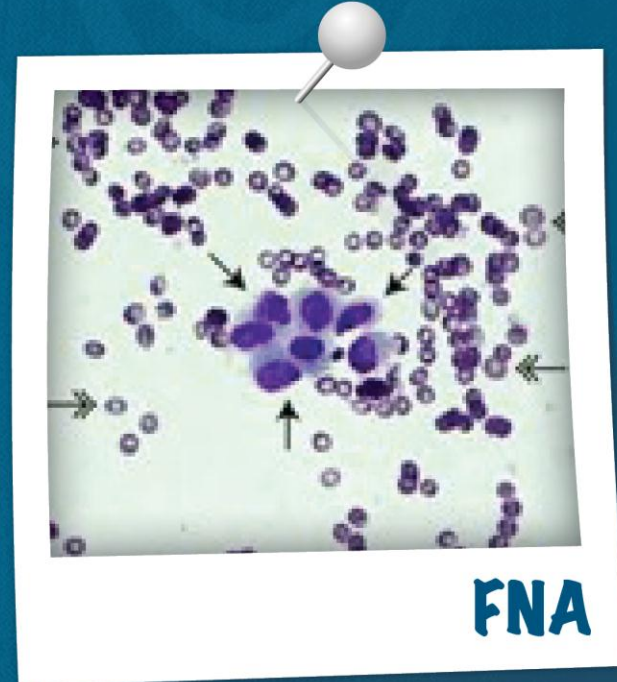
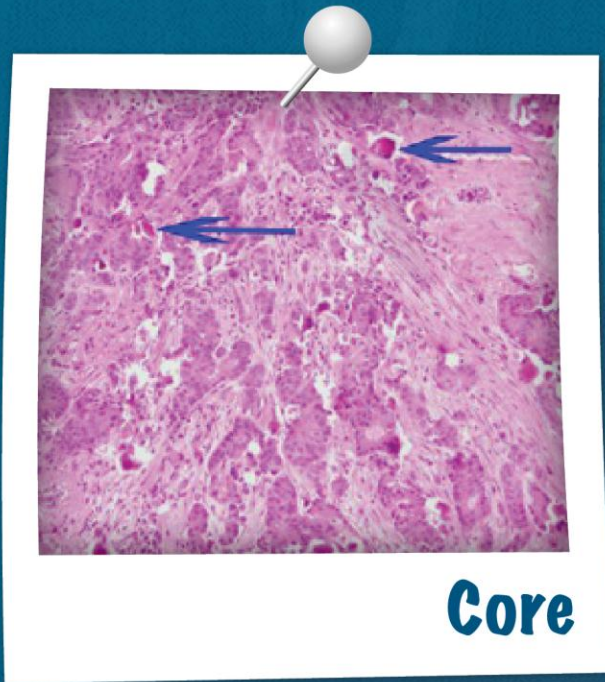
Fibroadenoma & Cyst



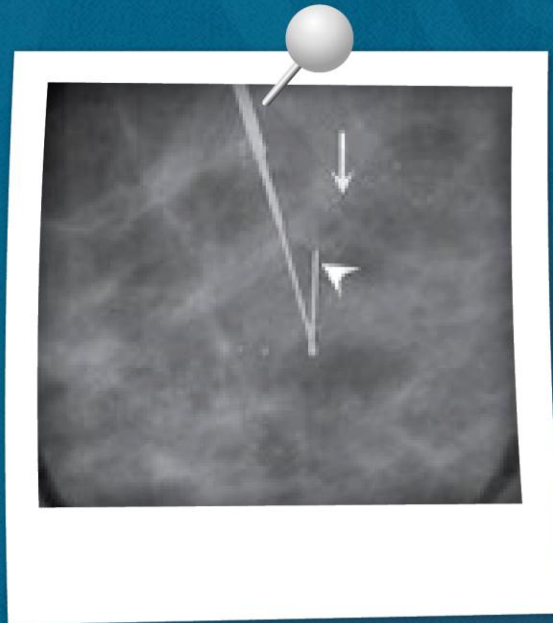
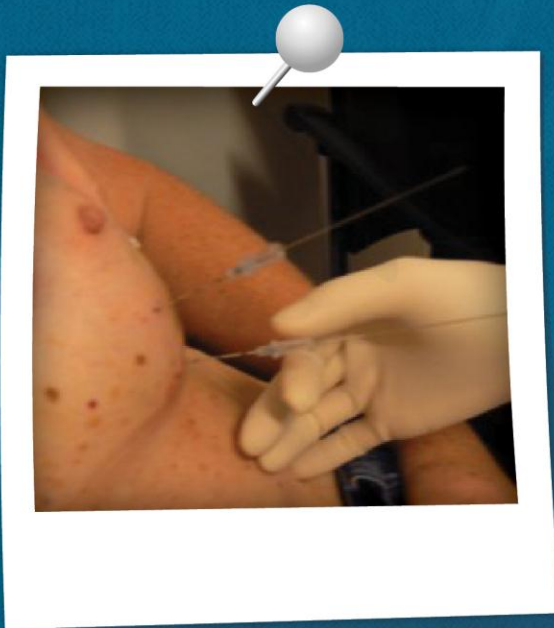
Cancer



Require Tissue Diagnosis



- *Hookwire Biopsy*
- *Rarely Diagnostic Excision Biopsy*



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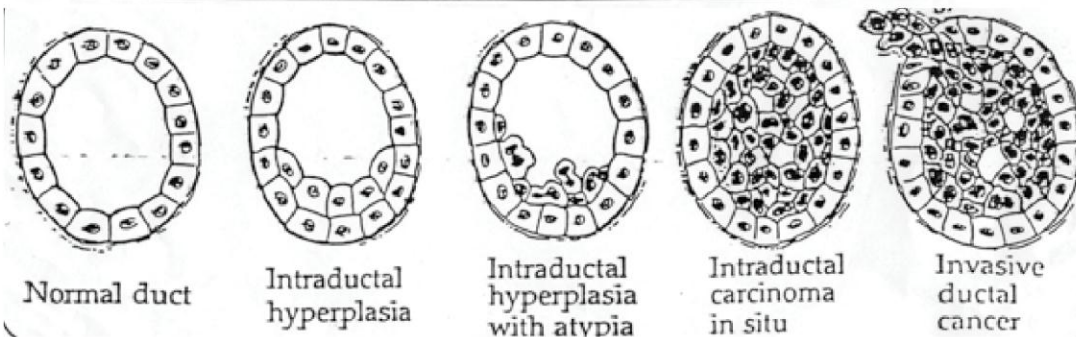
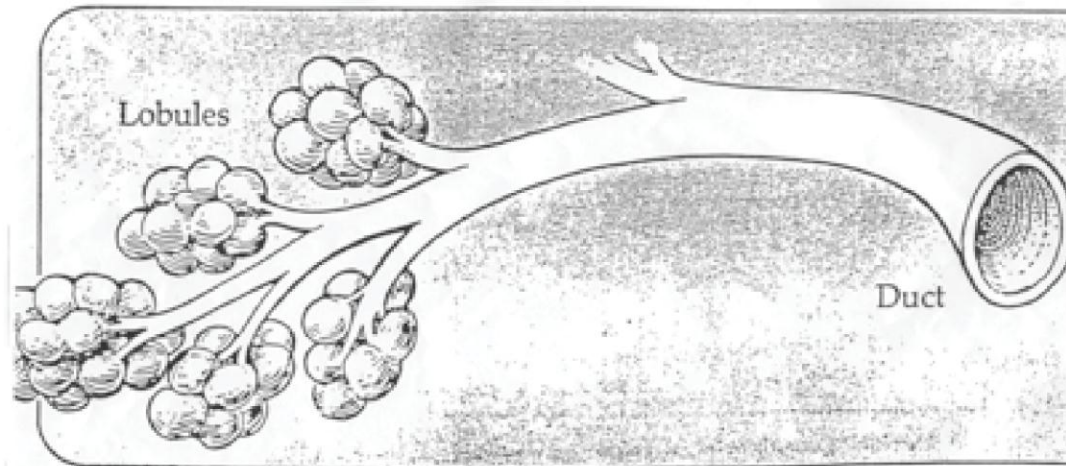
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Thermography

- *“Identify thermal emissions that suggest potential risk markers only”*
- *“Provide women with an early alert of the potential problems, and with that an opportunity to look at diet lifestyle and other factors to help reduce the chances of a problem developing further”*

Clinical Thermography Website NZ





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Thermography

Position Statement:

The National Screening Unit, the Cancer Society of NZ and the NZ Breast Cancer Foundation do not support the use of thermography as a breast screening or diagnostic tool as there is insufficient evidence.

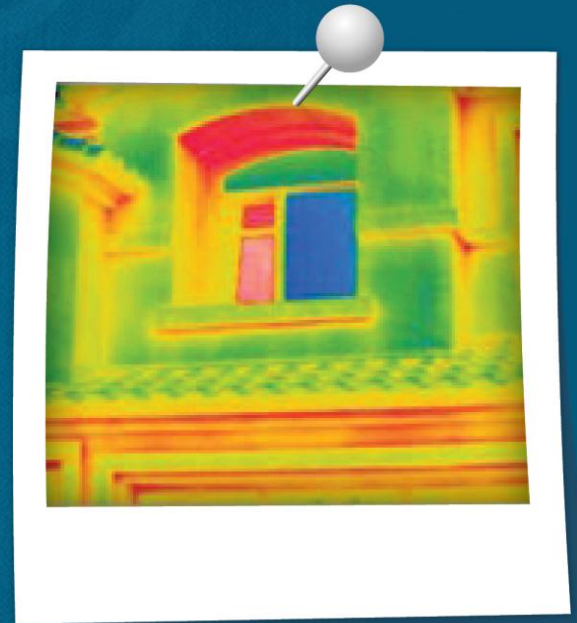
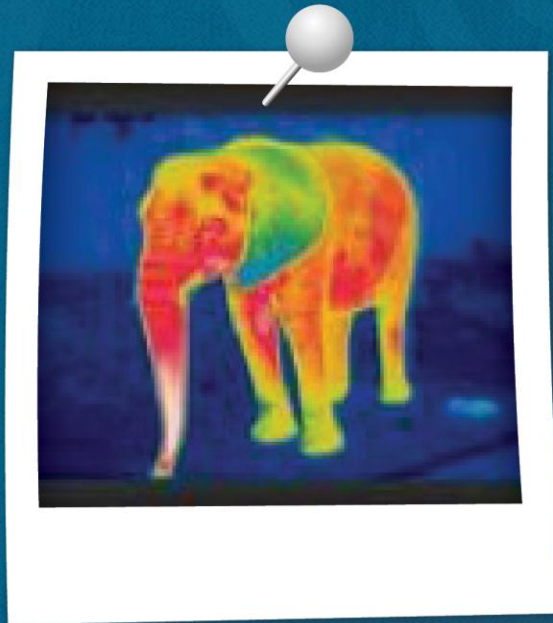
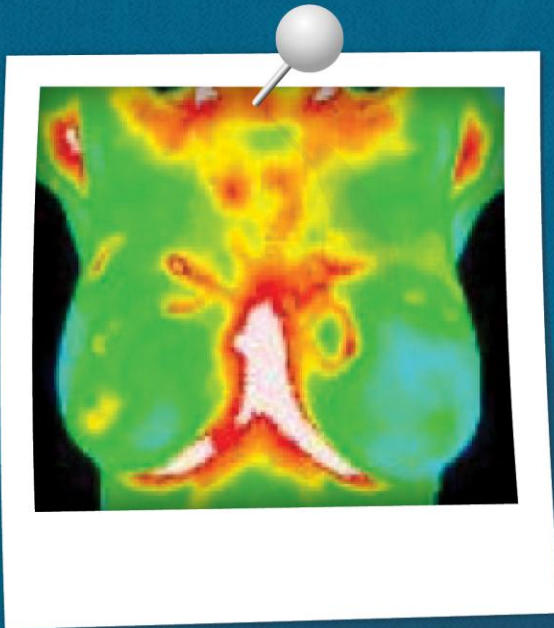
Lack of proof of efficacy and effectiveness of thermography.

Thermography has never undergone a randomized controlled trial (RCT) or meta-analysis of RCTs.

Concern: women believing that thermography is an adequate replacement for a doctor visit or a mammogram.



Thermography

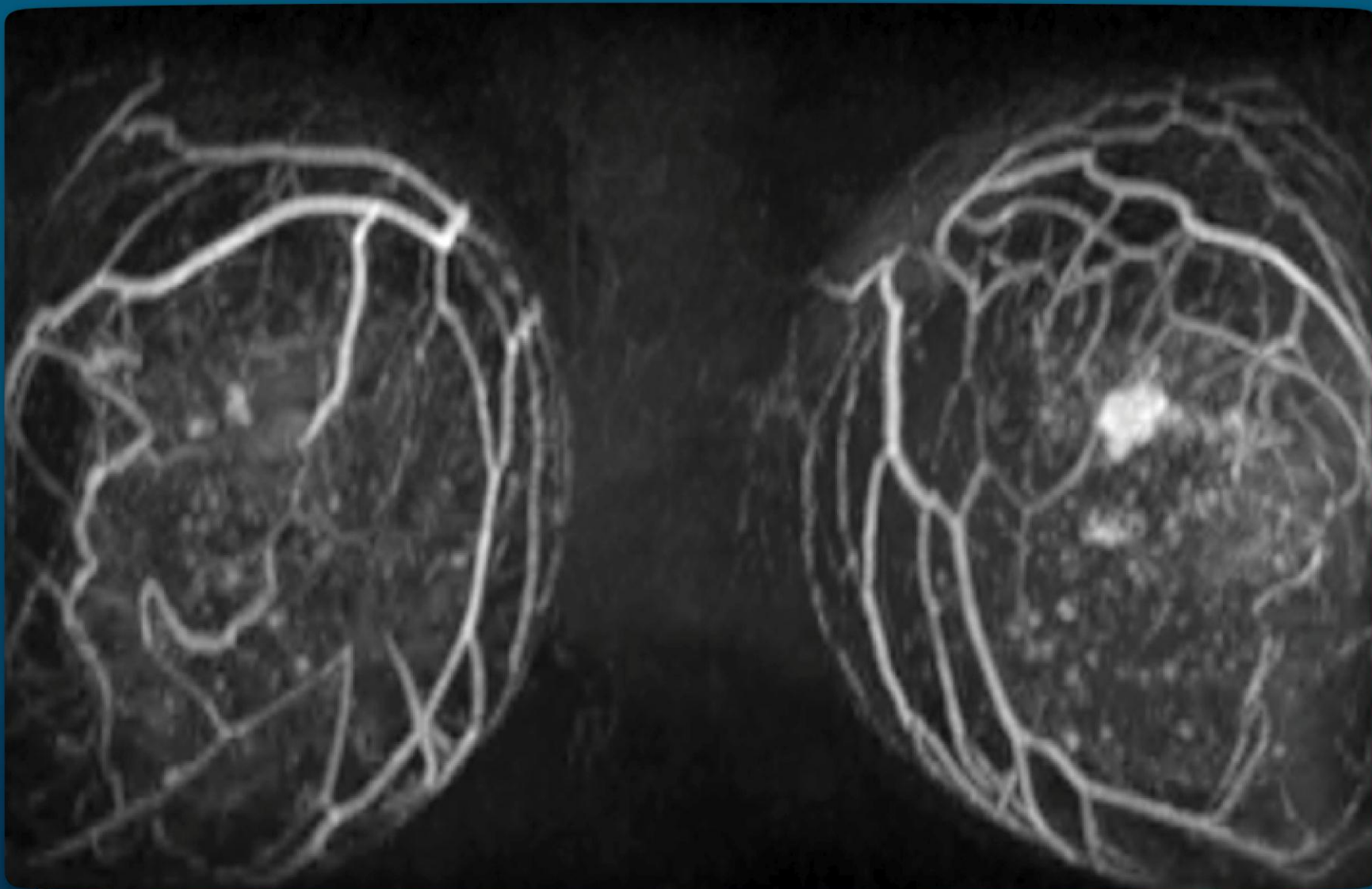


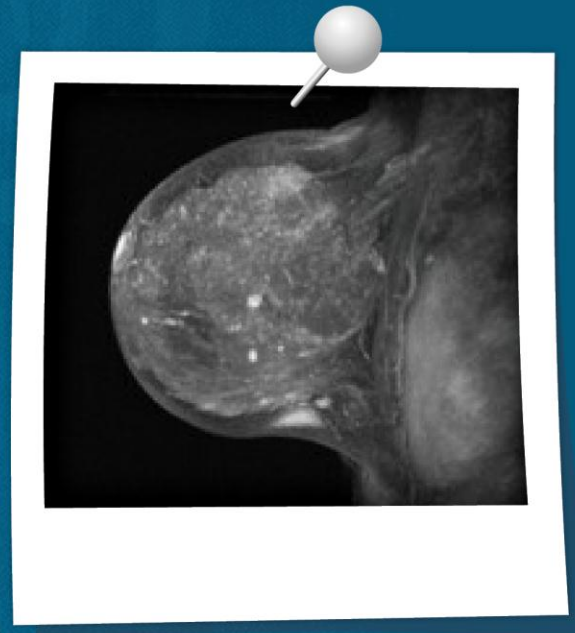
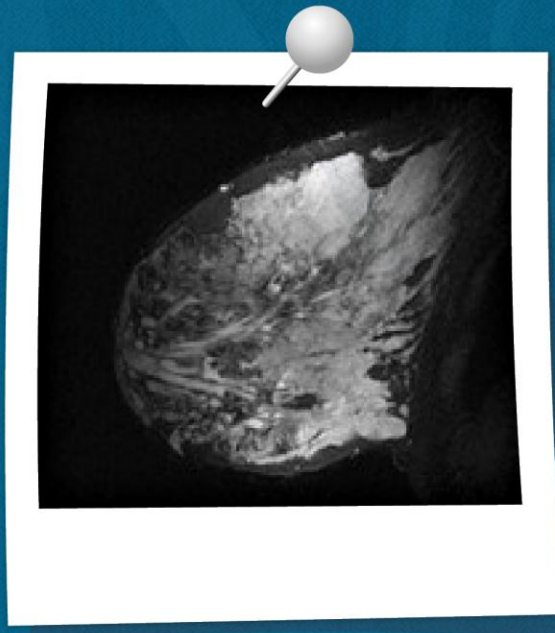
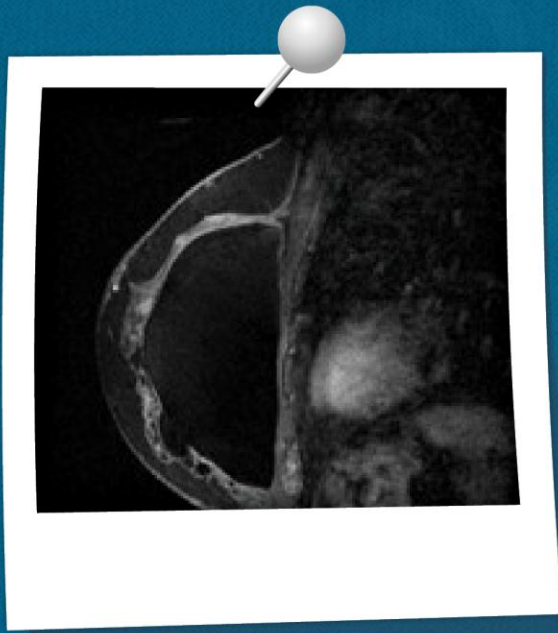
Breast MRI

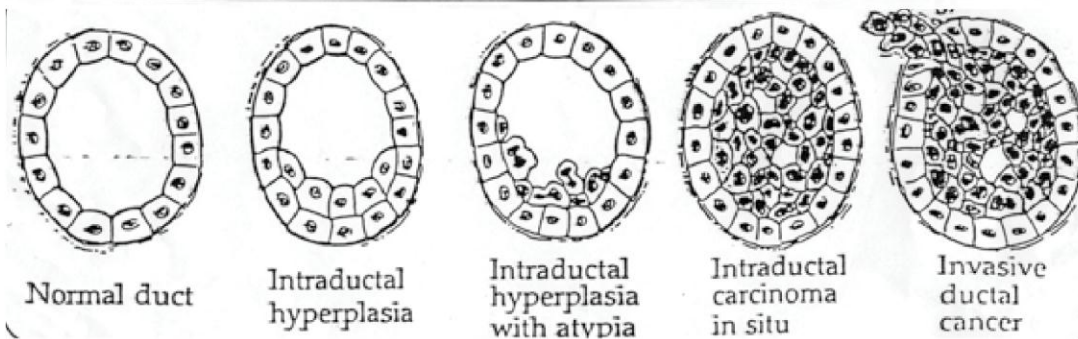
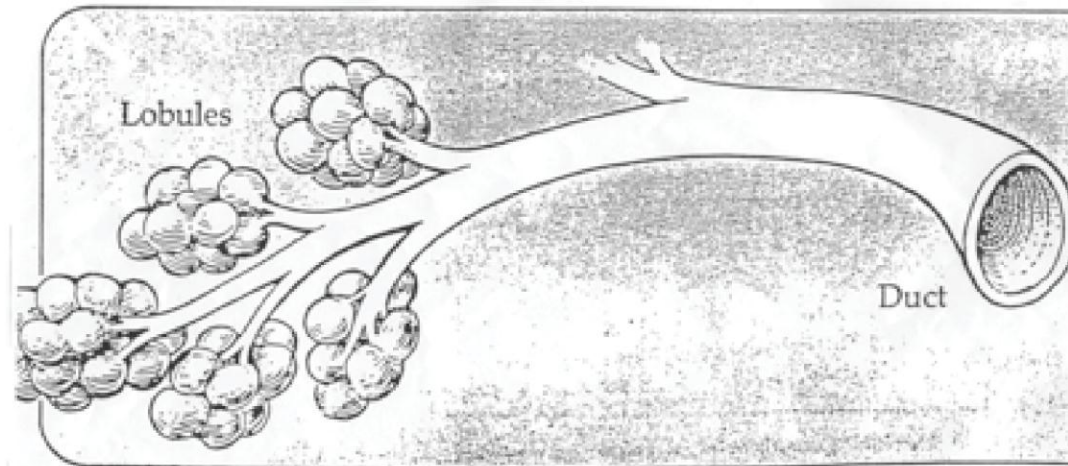
- Indications:
 - extent of disease in women with known breast cancer
 - screening for breast cancer in high risk women
 - axillary node cancer with unknown primary
 - breast implants - detection of cancer and implant integrity
- Add “chest radiation between ages 10-30”











Others.....

- CT Scan- Not useful in breast disease.
- PET- CT- Very useful in staging for metastatic disease but not for information on the primary.



PET- CT Scan

- *Structural and Functional information*



Ductography

- *No indication for this barbaric procedure!*



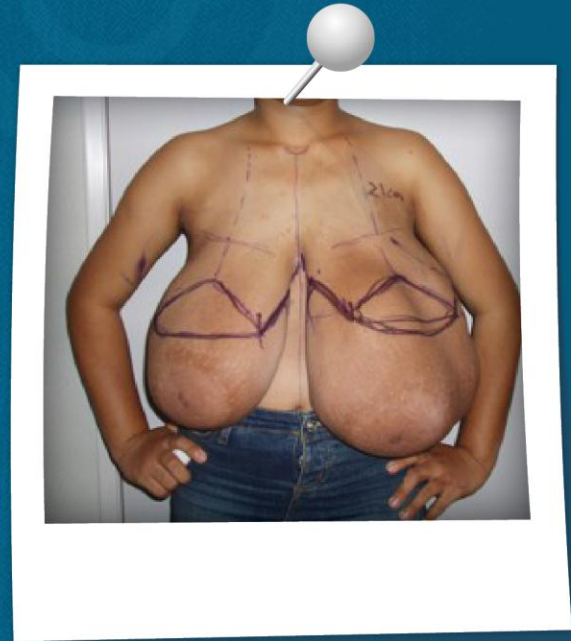
Conclusion

- Screening Mammography is not perfect but it is the best we have at the moment.
- Choose a specialist clinic.
- Early detection saves lives.



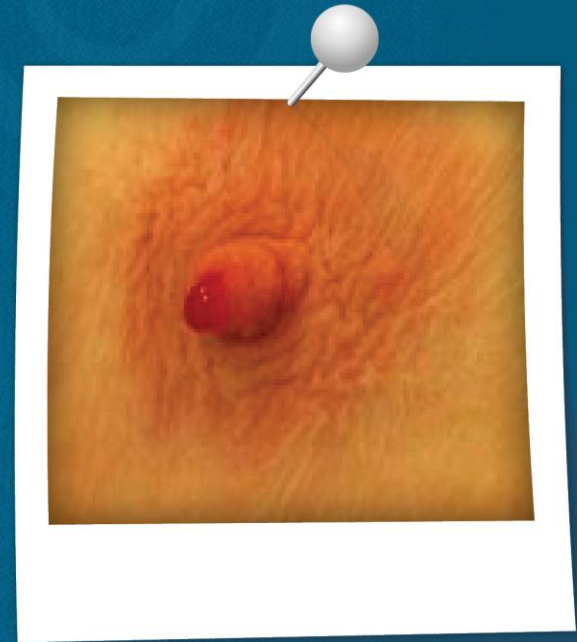
Case 1

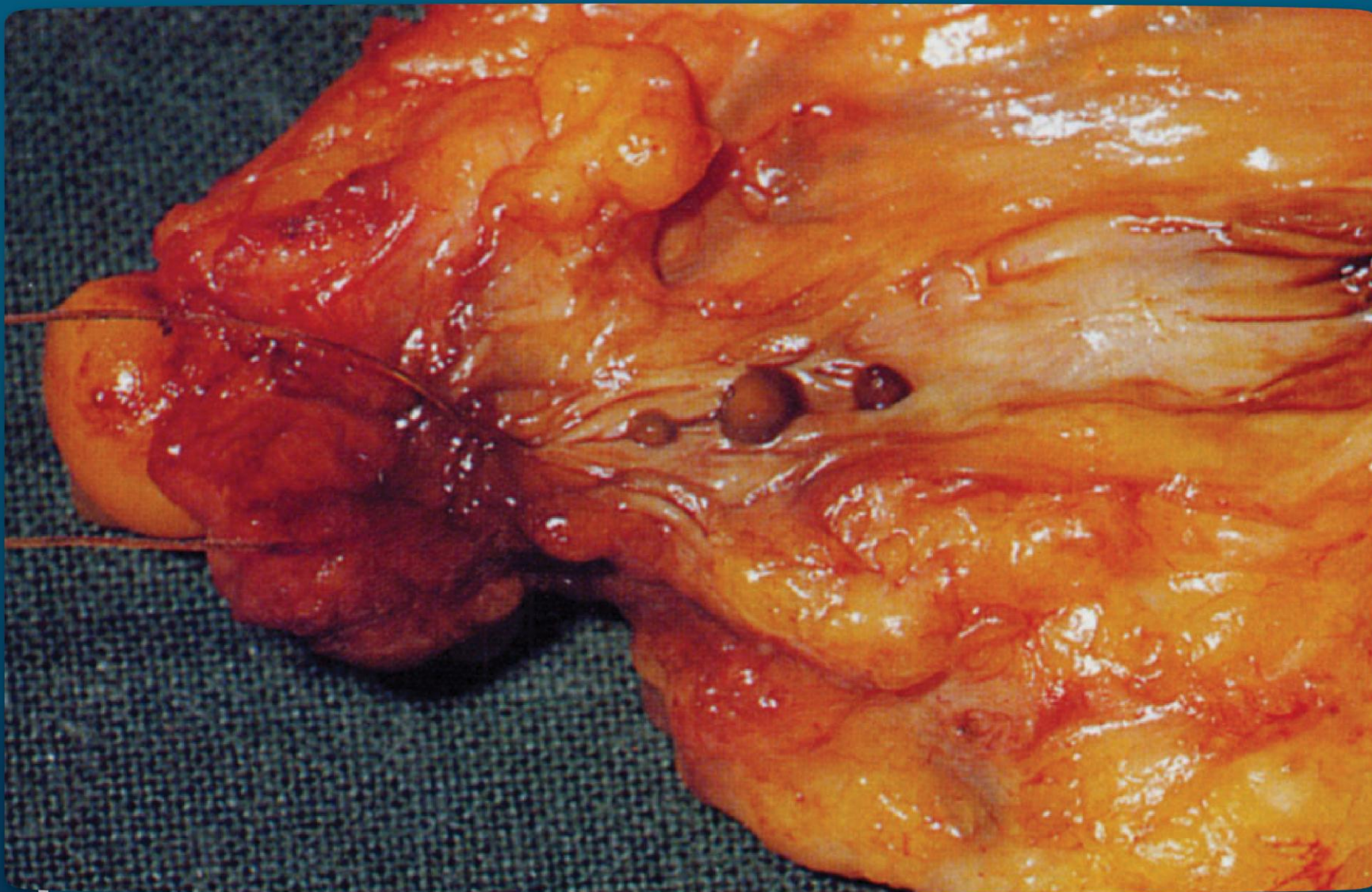
- *Fibromatosis
Bilateral skin sparing
mastectomy with skin
reduction and
implants.*



Case 2

- *Nipple discharge*
Papilloma



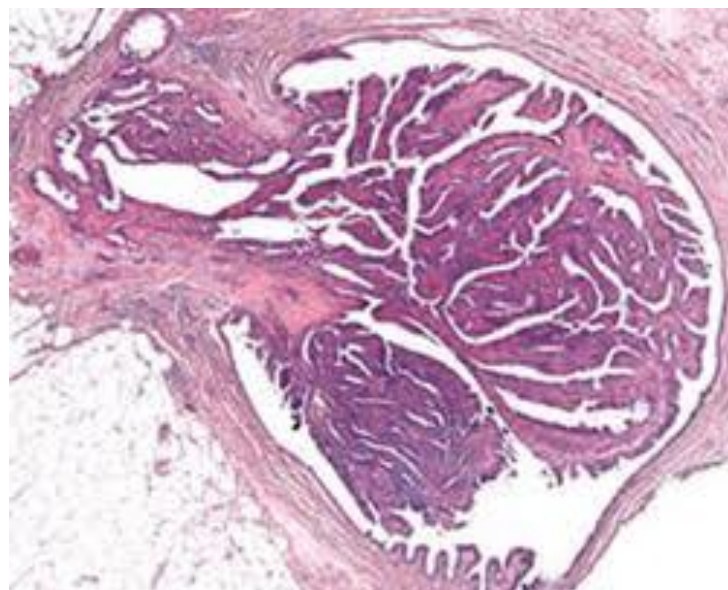


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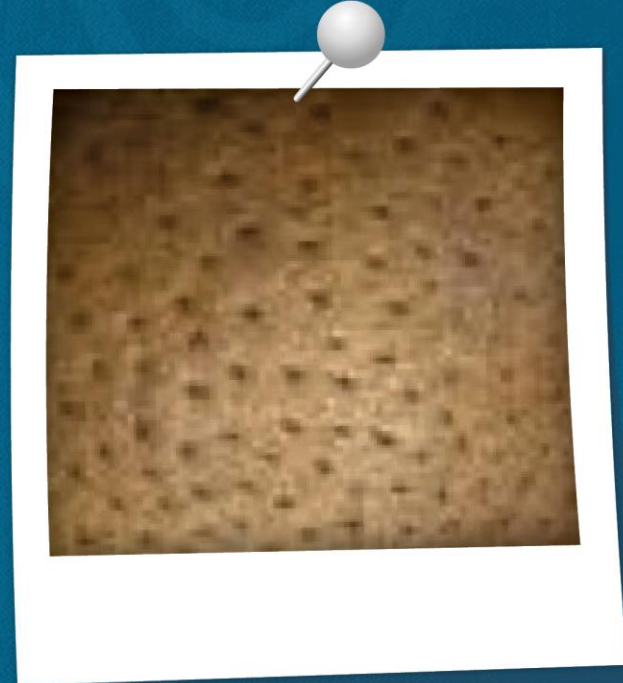
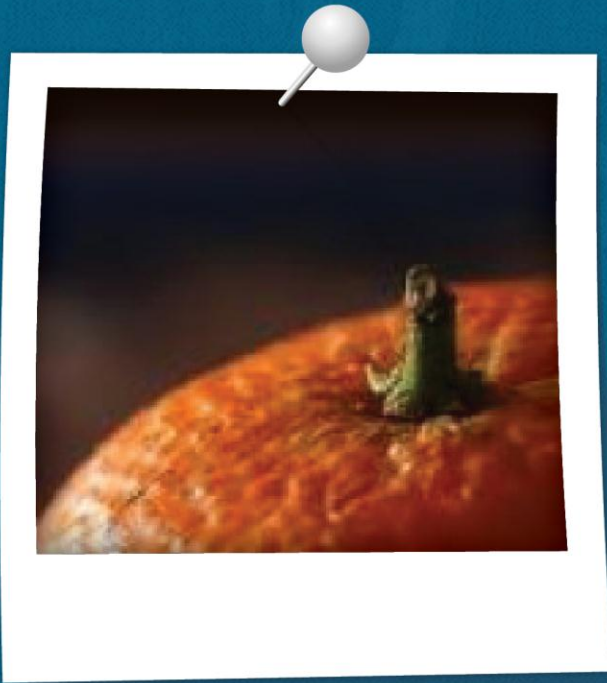


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Peau d'orange



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Paquet's

- *Very subtle*
- *Tightening of skin/ shiny*

