

BREAST SURGERY, CANCER & LITIGATION

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WELCOME!



- 'The two unforgivable sins of surgery. The first great error is to operate unnecessarily; the second, to undertake an operation for which the surgeon is not sufficiently skilled technically'.
- Max Thorek 1880-1960

- 'It is usually the second mistake in response to the first mistake that does the patient in'.
- Clifton K Meador



Main areas of litigation

- Breast cancer
- Delay in diagnosis value in USA was 2nd only to neonatal neurological damage
- Poor cosmetic outcome
- Reconstruction failure
- Breast cosmetic & aesthetic surgery
- Implants
- Poor outcomes

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What is the breast?

- Anatomical structure
- Cosmetic structure
- Physiological
- Social
- Relationships
- Personal identity
- Significance in art and culture



Breast cancer

- Major health problem
- UK mortality amongst world highest with 28 deaths per 100 000 women per annum
- 1 in 9 UK women, > 40 000 new cases and 14,500 deaths per year

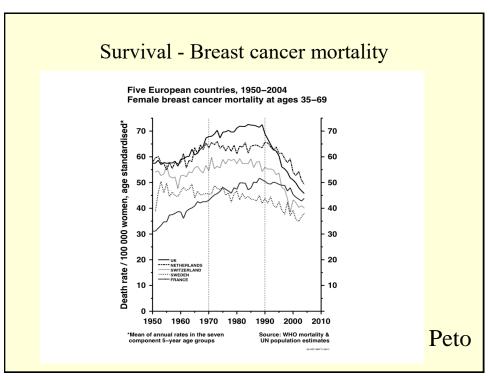
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In the last 10-15 years

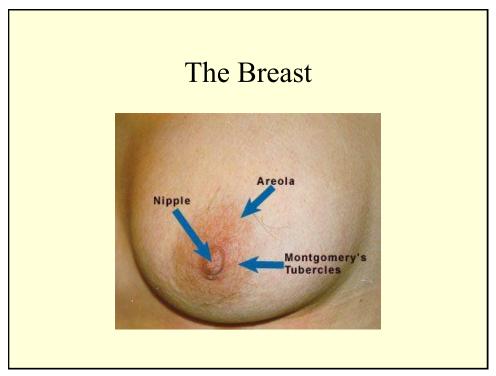
- Huge increase in understanding the biology
- Mechanisms of estrogen action
- Estrogen receptor blockers & now AIs
- Extensive operative surgery developments
- Multidisciplinary management
- More effective chemotherapy & radiotherapy
- Earlier diagnosis NHS Breast Screening

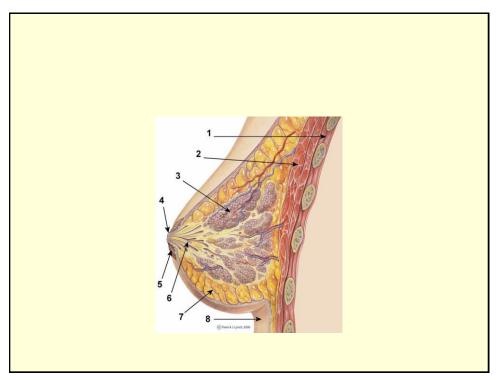


- Early detection
- Improvements in treatment
- Have led to a 30% reduction in UK breast cancer mortality over the last 20 years

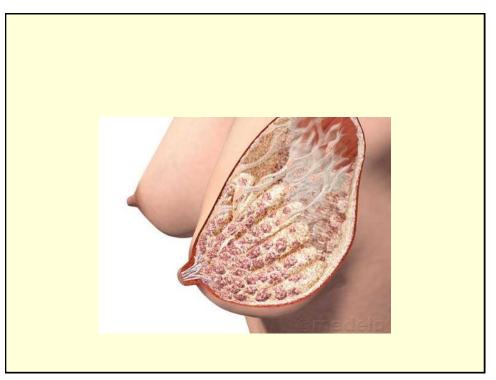


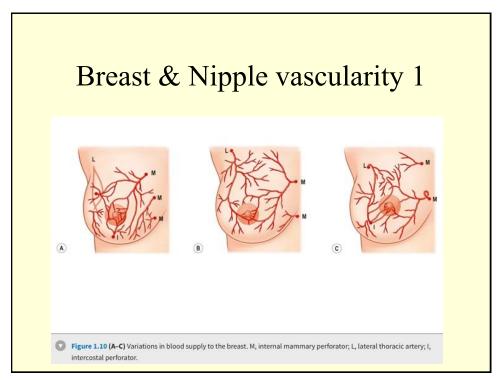














Why do patients sue?

- Something has gone wrong...?
- Anger
- Despair
- Desire to blame
- Want apology
- Want monetary compensation

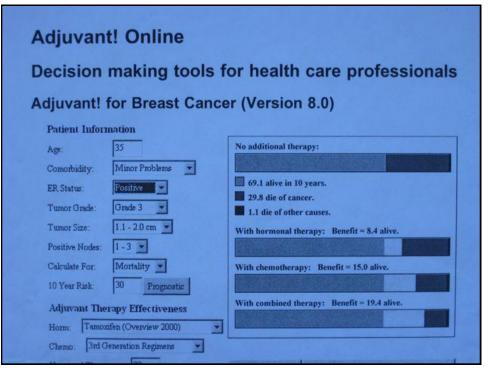
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Symptomatic presentations of breast malignancy



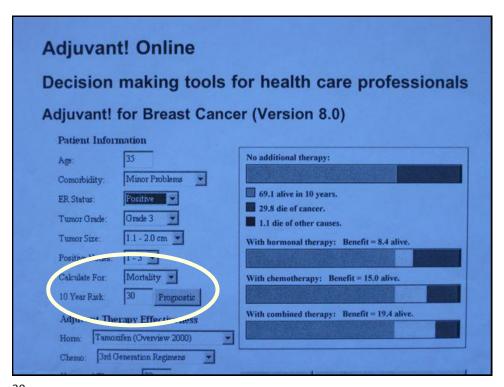
Mastectomy for breast cancer

- Political issue
- Misunderstood that the surgeon is the prime outcome person not the oncologist





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djuvant!	djuvant! for Breast Cancer (Version 8.0)			
Patient Inform	nation			
Age:	35	No additional therapy:		
Comorbidity:	Minor Problems			
ER Status:	Positive 🖸	69.1 alive in 10 years.		
Tumor Grade:	Grade 3	29.8 die of cancer.		
Tumor Size:	1.1 - 2.0 cm 💌	With hormonal therapy; Benefit = 8.4 alive.		
Positive Nodes:	1-3			
Calculate For:	Mortality •	With chemotherapy: Benefit = 15.0 alive.		
10 Year Risk:	30 Prognostic			
Adjuvant The	rapy Effectiveness	With combined therapy: Benefit = 19.4 alive.		
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The main gene mutations and breast cancer

- BRCA-1 and BRCA-2
- TP53
- Li Fraumini
- Ataxia telangiectasia
- (BRCA '3 & 4')
- PALB1, CHEK2, CDH1
- 'SNIPS' single nucleotide polymorphisms



Inappropriate Risk Reducing Surgery



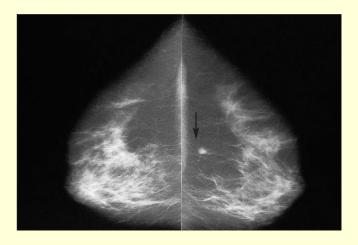
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NHS - Breast Screening Program

- 2 view mammograms
- Age 47 70 y with extension on request
- 3 yearly
- Invitation from GP
- Rigorous QA for every aspect, eg surgery. radiology, pathology
- Preoperative diagnosis



NHS - BSP small cancer



- But not all breast cancers are detected by mammograms
- Especially *Lobular* types 10% of all breast cancers



Ultrasound scans

- Subjective reading
- Radiologist experience
- Do not use for screening
- Site specific

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Triple Assessment

- Radiology
- Clinical assessment
- Needle Biopsy pathology core needle bx

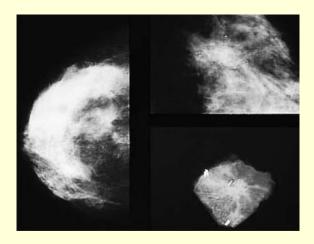


MRI scans

- 'Maps'
- Not binary diagnostic test
- Interpretation paramount
- Prolonged
- Agoraphobic situation
- Expensive
- Most accurate in younger women at high risk

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Stellate lesion localised/excised



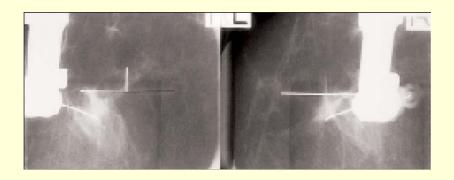


Imaging Research

- Tomograms
- Contrast enhanced mammography
- AI interrogated imaging
- Screening risk stratified breast screening

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Stereotactic core biopsy preoperative diagnosis





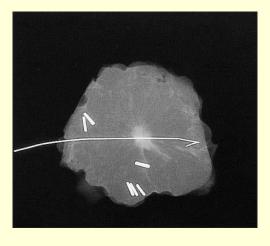
Needle localised surgery



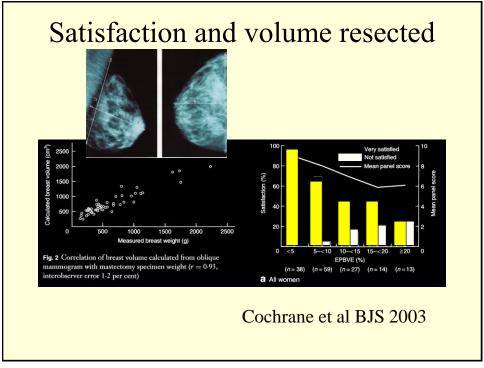


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Specimen radiograph







Unusual for a patient to sue for WLE defects

- If a defect is successfully corrected
- They have a good relationship with the primary surgeon



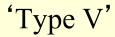
Total mastectomy

- Patient thinks that they should have had breast conservation, not mastectomy
 - sues
- Patient had breast conservation, now has local recurrence
 - sues

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Simple/total mastectomy



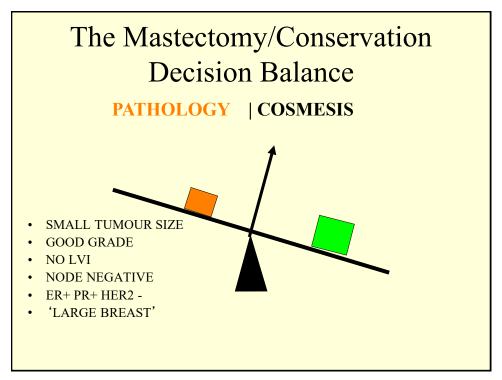


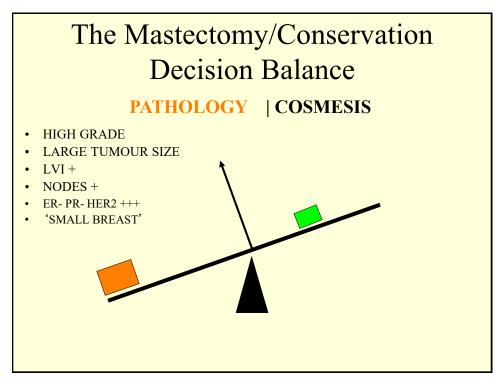


LD flap based immediate reconstruction

- Autologous LD flaps
- Implant assisted LD flaps









Development of a new specialty

Oncoplastic Breast Surgery

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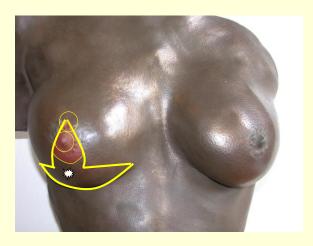
Oncoplastic techniques to extend the range of Breast Conserving Surgery



Complex therapeutic mammaplasty procedures

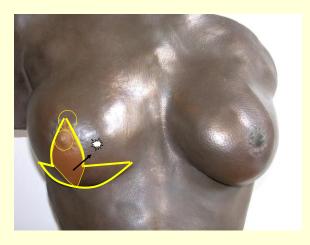
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Standard reduction with superior NAC pedicle





Extended superior NAC pedicle



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Litigation

- Breach of Duty Liability
 - As a result patient suffered an injury
- Causation
- Determined on the balance of probabilities



Litigation UK

- Breach of Duty Liability
 - As a result patient suffered an injury
- Causation
 - The injury caused a significant detriment, eg years of life lost, functional loss, aesthetic loss, pain, greater treatment
- Determined on the balance of probabilities ie 51% v 49%, not 'beyond all reasonable doubt'
 - Civil law v criminal law

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Breach of Duty

- Duty of care
- Bolam and Bolitho modification
- Guidelines
- Practice within guidelines easier to defend
- Practice outside of guidelines not always indicative of negligence



Litigation – Consent

- Montgomery v Lanarkshire HA 2015
 - Supreme Court changed the understood legal definition of informed consent
- No longer what information a reasonable doctor would have given, but whether a reasonable patient has been given all information pertinent to treatment including those treatments not offered by that doctor
- Poorly communicating risks is a Breach of Duty

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Litigation – Consent

- Montgomery v Lanarkshire HA 2015
- Poorly communicating risks of an operation is a Breach of Duty
- What about communicating risks of *not having* an operation?
- True informed consent 'without this spinal operation there is a risk of 90% you'll be paralysed in 6 months, with this operation there's a reduction to 10%...but a 5% risk of paralysis the same day of operation'



Causation

- Prove that a negligent act caused a foreseeable injury
- Difficulty in proving both liability and causation

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Delay in the diagnosis of breast cancer

- Did the delay necessitate more extensive treatment?
- Did the delay reduce the chance of cure?



Delay in Primary Care

- General Practice
- Benign lumps common
- GP sees 1-3 breast cancer patient per year
- Increasing reluctance to refer patients in for investigations
- Budgetary issues
- Patients seldom sue GPs

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Delay after Specialist Referral

- Clinical examination non-suspicious
- Failure to arrange clinic follow up
- Negative mammogram
- Misreading of mammogram/ultraosund
- Over-reliance on normal radiology
- Failure to perform a biopsy
- MDT dynamics failure to act on clinical suspicions



Diagnosis of breast cancer

- Triple Assessment
- Clinical examination
- Mammography and Ultrasound scan
- Cytology and core needle biopsy
- None is 100% sensitive nor 100% specific...

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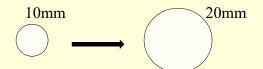
Tumour Doubling Time

- Age related Pearlman
- <50 years mean 80 days (44-147)
- >50 years mean 157 days (121-204)
- Lymph node metastases
- Blood borne haematogenous spread



Tumour doubling time

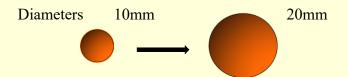
• It's not the measured maximum tumour *diameter* that matters



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Tumour doubling time

• It's the tumour *Volume* that matters



- $Volume = 4/3Pi \times RxRxR$ (R is the radius)
- 10mm vol is 0.52cc
- 20mm vol is 4.52cc



Types of breast cancer

- At least 27 types
- All different
- Multimodal therapy surgery, radiotherapy, chemotherapy, hormone therapy, monoclonal antibody (Herceptin)
- Behave differently...

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Types of breast cancer

- Ductal carcinoma in situ (DCIS)
- Invasive Ductal, WHO grades 1-3
- Invasive Lobular
- Mucoid, tubular
- Special types
- Receptors ER, PR, Her2
- Oncotype DX and Endopredict
- Ki67 proliferation index



Delay in diagnosis: causation

- Public expectation is that earlier diagnosis=better outcome
- So any delay=worse outcome
- More extensive treatment
- Psychological issues
- Dilemma in calculating loss of life years

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Cosmetic/aesthetic outcomes

- Breast cancer surgery
- Wide excision defects
- Reconstruction defects
- Aesthetic surgery
- Augmentation implants
- Breast uplifts mastopexies
- Breast reductions



Recent UK examples

- Nipple loss after reduction mammaplasty
- Nipple loss after augmentation mastopexy
- Loss of ADM and implant
- · Consent for ADM which failed
- Local recurrence after SSMx/LD flap
- Lymphatic fistula after mastectomy & ANC

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Recent UK examples 2

- Breast lump clinically 'P5' by surgeon, benign triple assessment, pt discharged
- Patient delayed >1 year with lump, sued when diagnosed with Metastases 9/12 after initial surgery, claiming alleged '3 month delay in Radiotherapy'



Disasters can be...

- Psychological
- Surgical
- Aesthetic
- Oncological
- ...and sometimes all four...

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ONCOLOGY SURGERY mantra

- Get clear margins
- Avoid transgressing malignant tissue
- Meticulous technical attention to detail
- Don't leave malignant tissue behind
- Minimise complications of surgery



National Mastectomy & Breast Reconstruction Audit

- Rate of 'immediate breast recontsruction' assumes an issue of high/low quality care
- Anticipation of CRx and Radiotherapy?
- Radiotherapy can be a disaster for reconstructions
- Increasing use of 'spacer' immediate

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National Mastectomy & Breast Reconstruction Audit (UK)

- Rate of 'immediate breast reconstruction' assumes an issue of high/low quality care
- Anticipation of CRx and XRT ?
- XRT can be a disaster for reconstructions
- Any delay in Chemotherapy translates into diminished reduction in chances of survival



POSTOPERATIVE COMPLICATIONS

- Much more likely to involve the donor site than the breast
- Loss of an immediate abdominal flap is not just a reconstructive disaster, even more crucially it is a cancer surgery catastrophe
- Wound breakdown and infection lead to deterioration in cancer outcome, with increased rates of recurrence

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How do you avoid litigation?

- Conscientiousness
 - Attention to detail
 - Technical surgery
- Compassion
- Communication
 - With patients and relatves
 - Medical records and other doctors MDT
- Courage
 - Do not take too high risks
 - Be thorough
 - Make good decisions



Thank you for your attention

