



José Luis Fougo, MD, PhD Head, Breast Centre









•Breast Cancer patients expectations original article

Annals of Oncology 18: 479–484, 2007 doi:10.1093/annonc/mdl456 Published online 1 February 2007

•617 BC patients

Breast cancer patients' expectations in respect of the physician-patient relationship and treatment management results of a survey of 617 patients

G. Oskay-Özcelik, W. Lehmacher, D. Könsgen, H. Christ, M. Kaufmann, W. Lichtenegger, M. Bamberg, D. Wallwiener, F. Overkamp, K. Diedrich, G. von Minckwitz, K. Höffken, S. Seeber, R. Mirz & J. Sehouli*

Charité Medical University, Augustenburger Platz 1, 13353 Berlin, Germany

- •15 min was the median length of the "Breaking Bad News" consultation
- Doctor was the most important source of information
- Yet, 77% patients did "internet-search"





Patients would like to get

- More complementary therapies
- More time with their doctors
- More cooperation between their doctors





Patients relevant questions

- •Am I getting the right treatment?
- •How many patients with my condition does my doctor treat?
- •Can I be enrolled into a trial?
- Can I have a Second Opinion consultation?





•The word most frequently associated with the disease

- Fear
- Challenge
- Hope
- Opportunity
- Death





Breaking bad news

The Surgeon as a Clinician





The most frequent comments/questions

- •Will I be cured?
- •I want to "stay clean"
- •Will you have to remove the whole breast?
- •When will I be operated?
- •Will I lose my hair?



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Total Mastectomy vs Breast Conserving Treatment

	ANO	n	FU P	MT	CC	CC RT
Institute Gustave Roussy (Sarrazin)	1972	179	10	80		79
Milan (Veronesi)	1973	701	20	59		58
NSABP B-06 (Fisher)	1976	185 1	20	47	xx	46
NCI (Jacobson)	1979	247	10	75		77
EORTC 10801 (van Dongen)	1980	903	10	66		65
Danish Group (Blichert-Toft)	1983	793	20	49		53





Breast Conserving Treatment

- Is a safe option
 - •Overall Survival rates equivalent to Total Mastectomy
- Adjuvant radiotherapy is mandatory
- Worse local recurrence rates
 - Around 10% in 10 years





Breast Conserving Treatment Contraindications

- Inflamatory Breast Cancer
- Radiotherapy contraindications





Breast Conserving Treatment Contraindications

- Multicentricity
- Multifocality
- Tumour size vs Breast size
- Pregnancy
- Persistently positive margins





Breast Conserving Treatment

- In the USA, BCT rates may be around45 to 65%
- •SEER shows TM decreasing rates from 41% (2000) to 37% (2006).
- •In England (2008): 58%
- •At HSJ (2014): 54.3%





Breast Conserving Treatment

- Positive margins and Re-operation
 - Reexcision is necessary in around 20% of BCT



Ann Surg Oncol. 2008 May; 15(5): 1271-1272.

Published online 2008 Mar 5. doi: 10.1245/s10434-007-9766-0

Positive Margins: The Challenge Continues for Breast Surgeons

Lisa Jacobs[™]

PΝ





Breast Conserving Treatment



BMJ 2012;345:e4505 doi: 10.1136/bmj.e4505 (Published 12 July 2012)

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Positive margins and Re-opera

RESEARCH

•55297 patients BCT

Reoperation rates after breast conserving surgery for breast cancer among women in England: retrospective study of hospital episode statistics

- Reexcision was done in 20% of cases
- Unifocal invasive tumour: 18%
- Any form of DCIS present: 29.5%



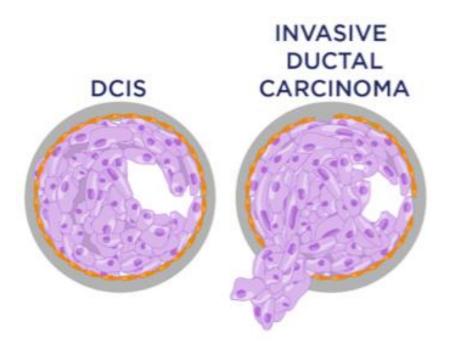


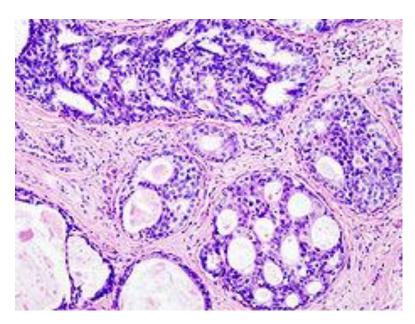
- Breast Conserving Treatment
- Positive margins and Re-operation
 - •At HSJ (2014): 13.7%





Margin definition (DCIS)

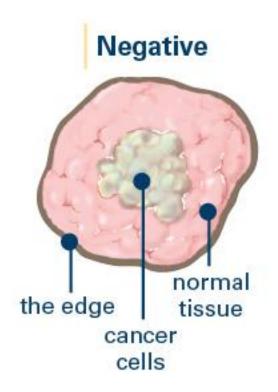


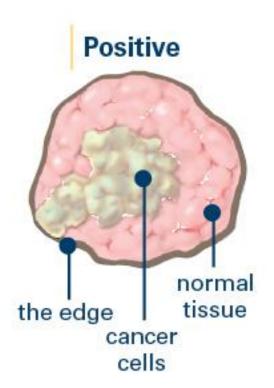






Margin definition









Margin definition (DCIS)



Comprehensive Cancer NCCN Guidelines Version 3.2014
Network* Ductal Carcinoma in Situ

NCCN Guidelines Index
Breast Cancer Table of Contents
Discussion

MARGIN STATUS IN DCIS

Substantial controversy exists regarding the definition of a negative pathologic margin in DCIS. Controversy arises out of the heterogeneity of the disease, difficulties in distinguishing the spectrum of hyperplastic conditions, anatomic considerations of the location of the margin, and inadequate prospective data on prognostic factors in DCIS.

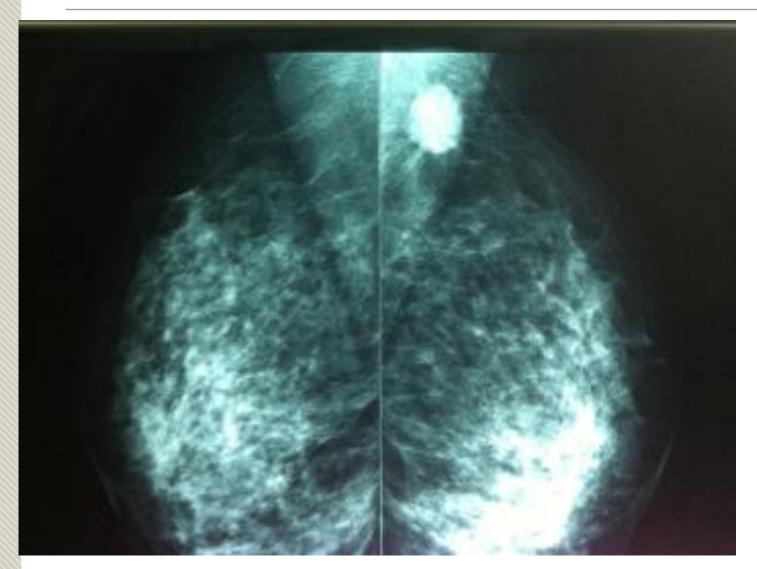
Margins greater than 10 mm are widely accepted as negative (but may be excessive and may lead to a less optimal cosmetic outcome).

Margins less than 1 mm are considered inadequate.

With pathologic margins between 1-10 mm, wider margins are generally associated with lower local recurrence rates. However, close surgical margins (<1 mm) at the fibroglandular boundary of the breast (chest wall or skin) do not mandate surgical re-excision but can be an indication for higher boost dose radiation to the involved lumpectomy site (category 2B).



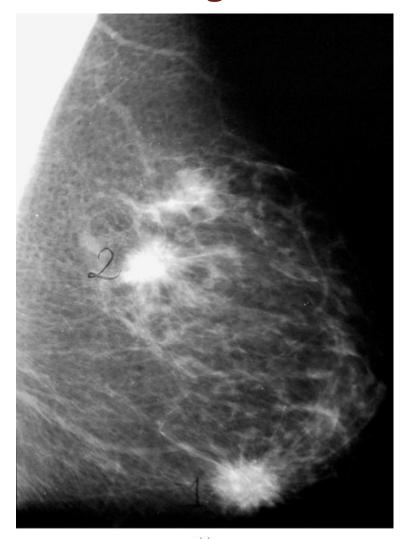






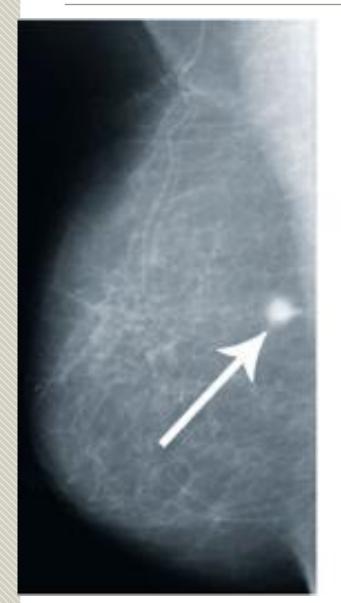


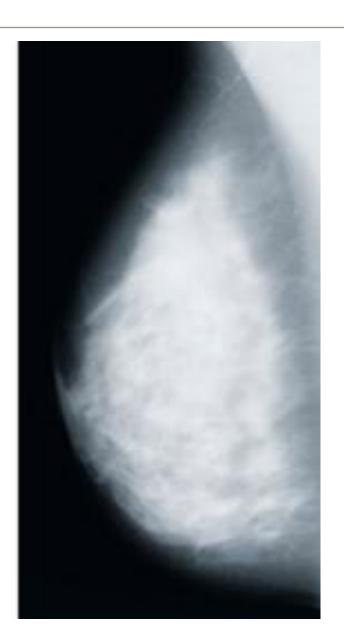
Breast Conserving Treatment





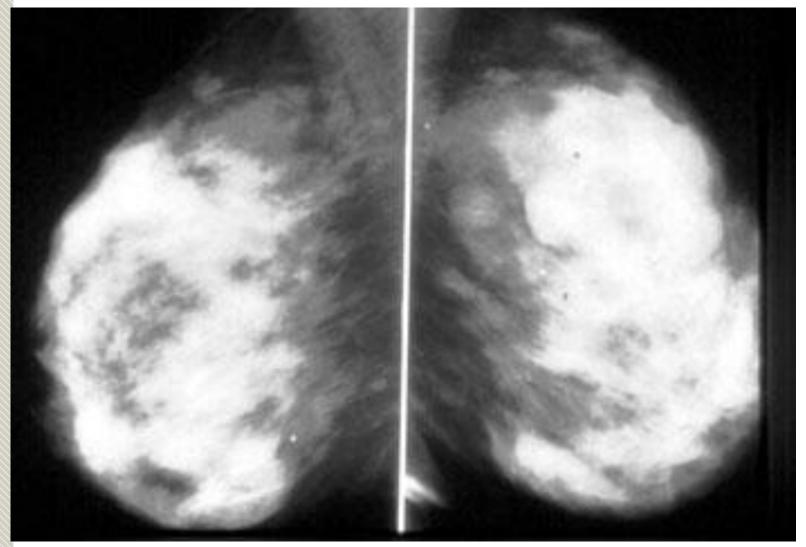








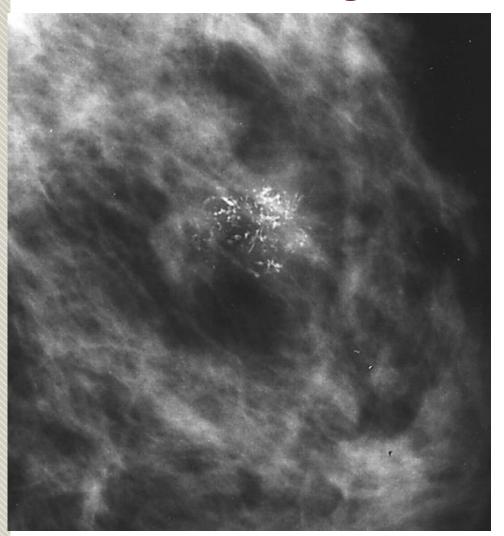








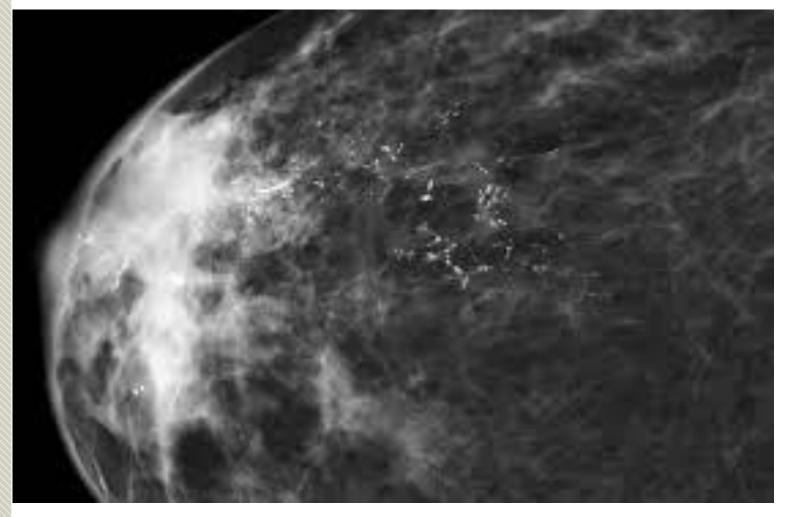
Breast Conserving Treatment





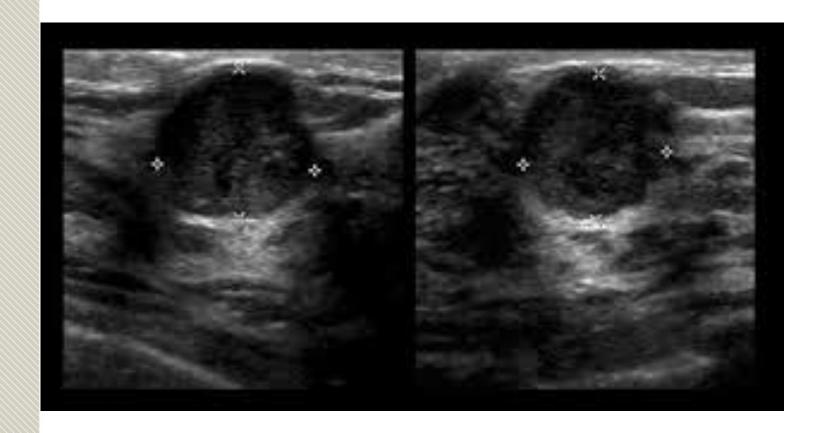


Breast Conserving Treatment



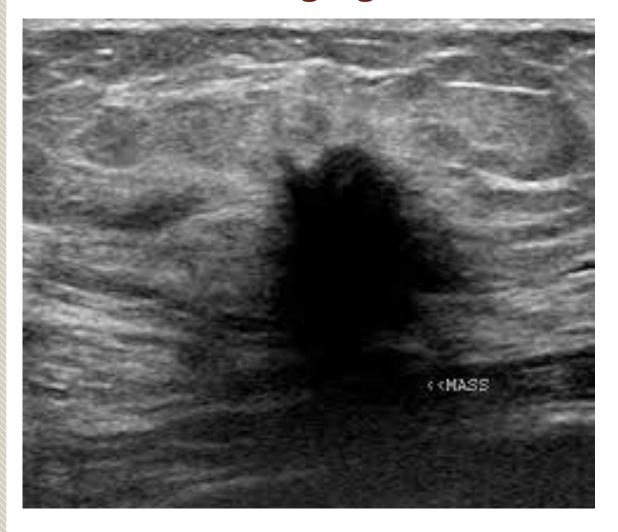












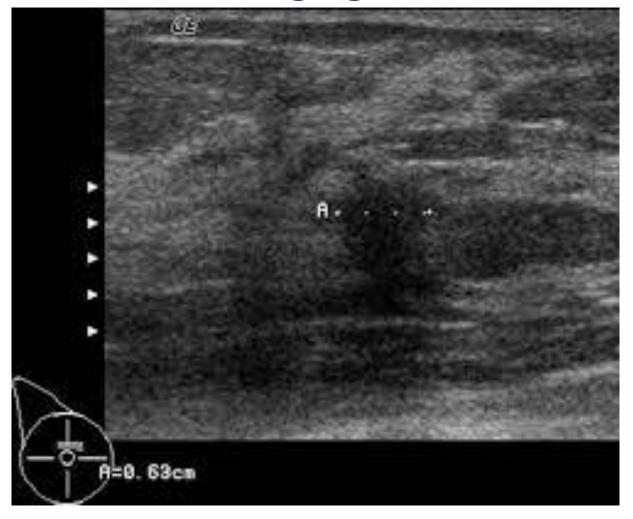






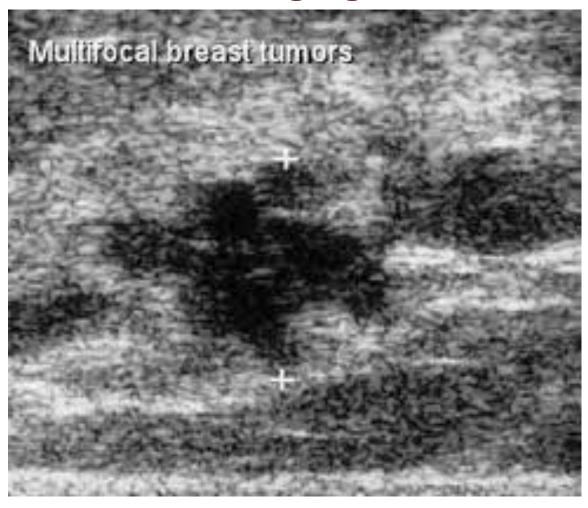
















Breast Conserving Treatment

Excessive resection



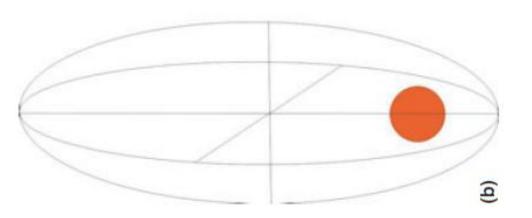
The Breast gournal

ORIGINAL ARTICLE

Excessive Resections in Breast-Conserving Surgery A Retrospective Multicentre Study

Nicole Krekel, MD,* Barbara Zonderhuis, MD,* Sandra Muller, MD,* Herman Bril, PhD,† Henk-Jan van Slooten, PhD,‡ Elly de Lange de Klerk, PhD,\$ Petrousjka van den Tol, PhD,* and Sybren Meijer, PhD*

© 2011 Wiley Periodicals, Inc., 1075-122X/11 The Breast Journal, Volume 17 Number 6, 2011 602-609

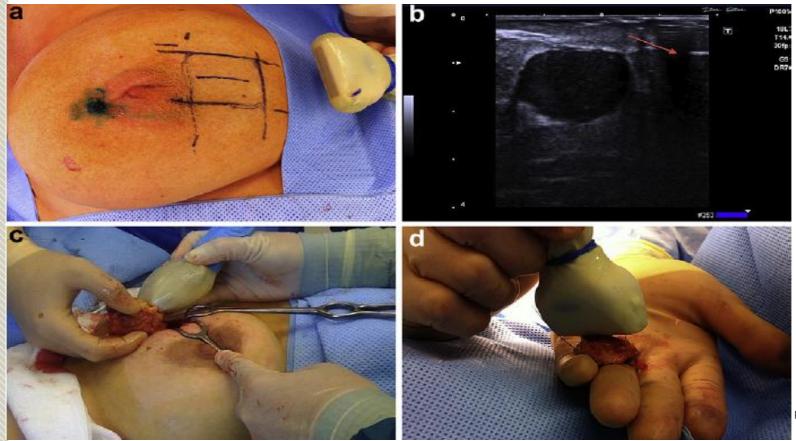






Breast Conserving Treatment

Excessive resection







Breast Conserving Treatment







Breast Conserving Treatment









Breast Conserving Treatment







Breast Conserving Treatment







Breast Conserving Treatment

Ultrasound guidance







Breast Conserving Treatment

Margin assessment













Breast Conserving Treatment

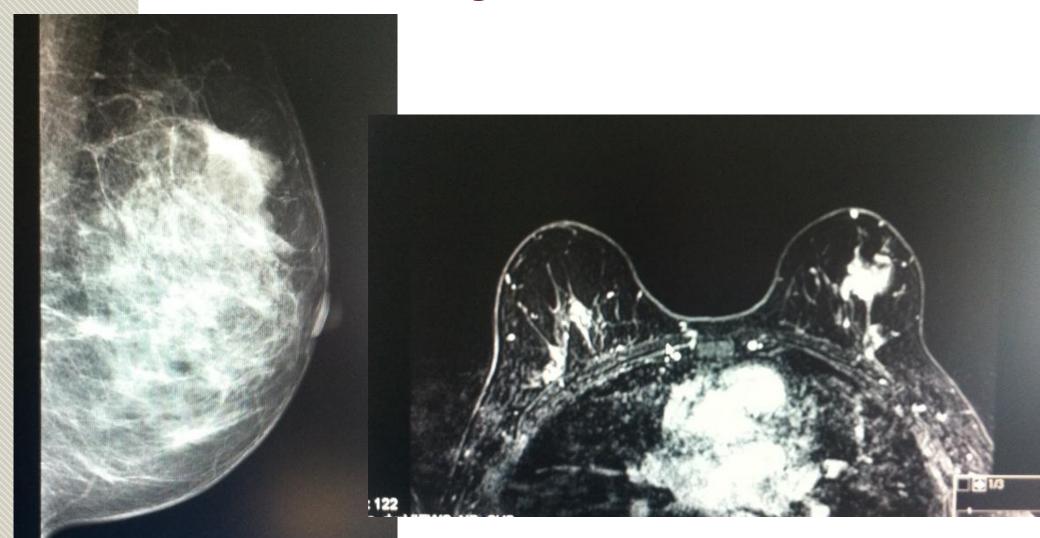
Margin assessment







Breast Conserving Treatment







Breast Conserving Treatment

- The Magnetic Resonance Imaging of the breast
 - Excellent sensitivity (close to 100%)
 - Precise definition of size and extent of the tumour
 - Identification of multicentricity, multifocality, contralateral disease





- Breast Conserving Treatment
- The Magnetic Resonance Imaging of the breast
 - It should be part of the pre-operative planning





Breast Conserving Treatment

- The Magnetic Resonance Imaging of the breast
 - Lower rates of specificity
 - Higher rates of false-positives
 - More Total Mastectomies
 - More 2nd look ultrasound and biopsies

•Costs



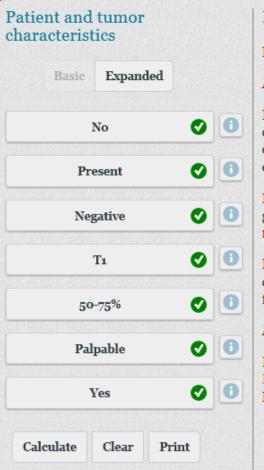












Estimated risk for positive surgical margins:

Predicted probability: 45%

Interpretation:

If there would be a group of 100 patients with the same characteristics as this individual patient, 45 patients are expected to have positive surgical margins after breast-conserving therapy.

Based on an a priori risk of approximately 20% in the general population, this particular patient has a high risk of positive surgical margins.

Due to the fact that the model is only an approximation of the true situation, the estimated risk may deviate from the actual risk for positive surgical margnis.

Risk definitions:

Low risk: < 15%

Intermediate risk: 15% - 25%

High risk: > 25%





- Unfavorable Tumour/Breast ratio
- Locally advanced tumour
- Indication for Systemic Chemotherapy
- Unfavorable Molecular Subtypes (TN, Her2+)

Consider Neo Adjuvant Chemotherapy

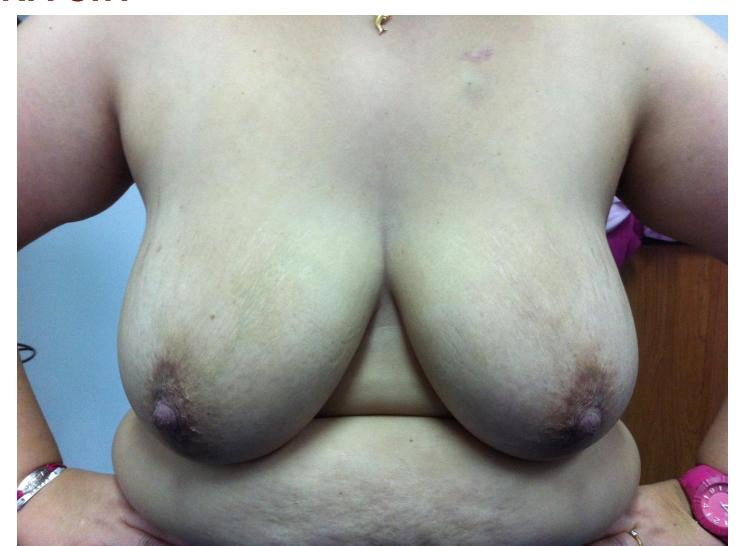




- MRI before NA ChT
- Metal clip inside tumour
- Black Tatoo around tumour
- MRI after NA ChT
- Breast conserving ratio (2007-12): 61%
- Re-operation ratio: 8%
- •cPR: 29%

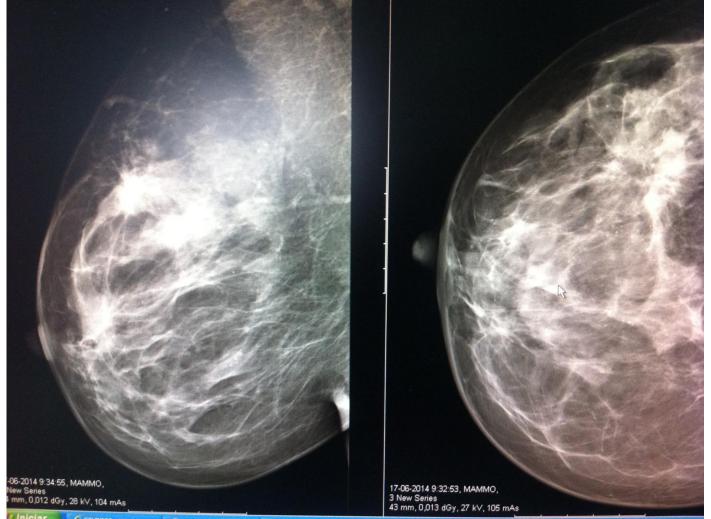












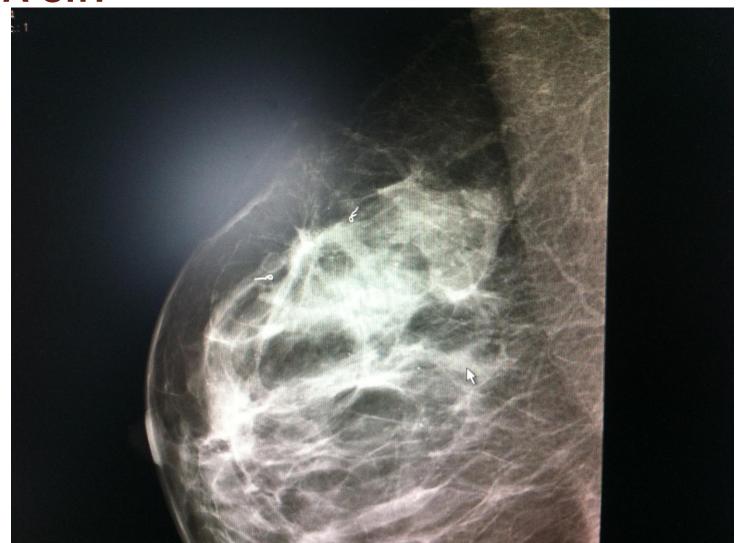






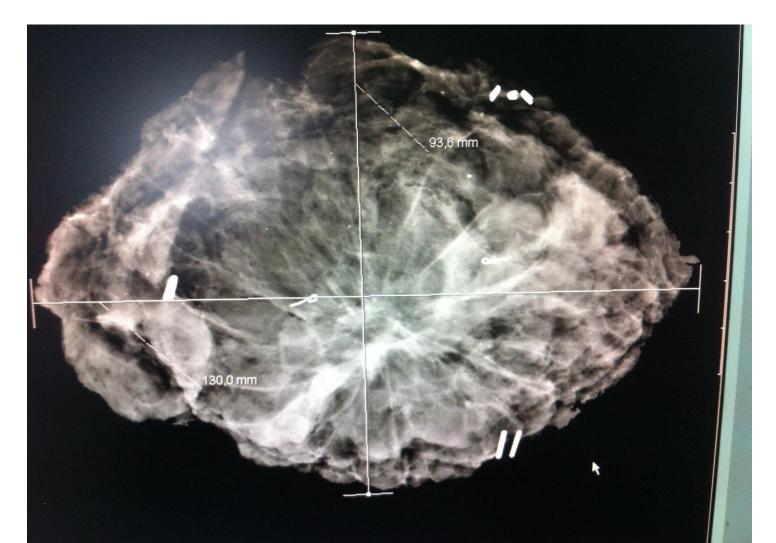






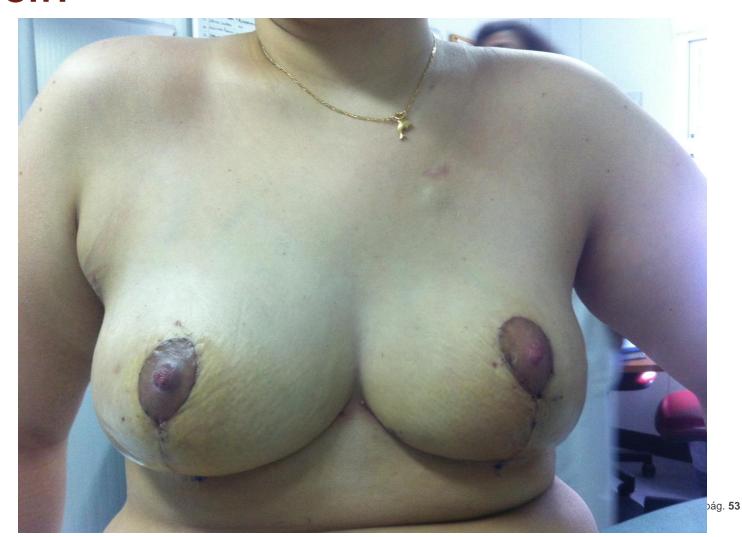
















Future insights

- To better plan the surgery
 - Imaging very small tumour foci (<2 mm) in a functional way
- To operate patients only once
 - Availability inside the OR



CENTRO DE MAMA HOSPITAL DE S. JOÃO

Obrigado pela vossa atenção!

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