

SCREENING E MASTECTOMIE: SONO CAMBIATE LE INDICAZIONI?

GISMA 2017

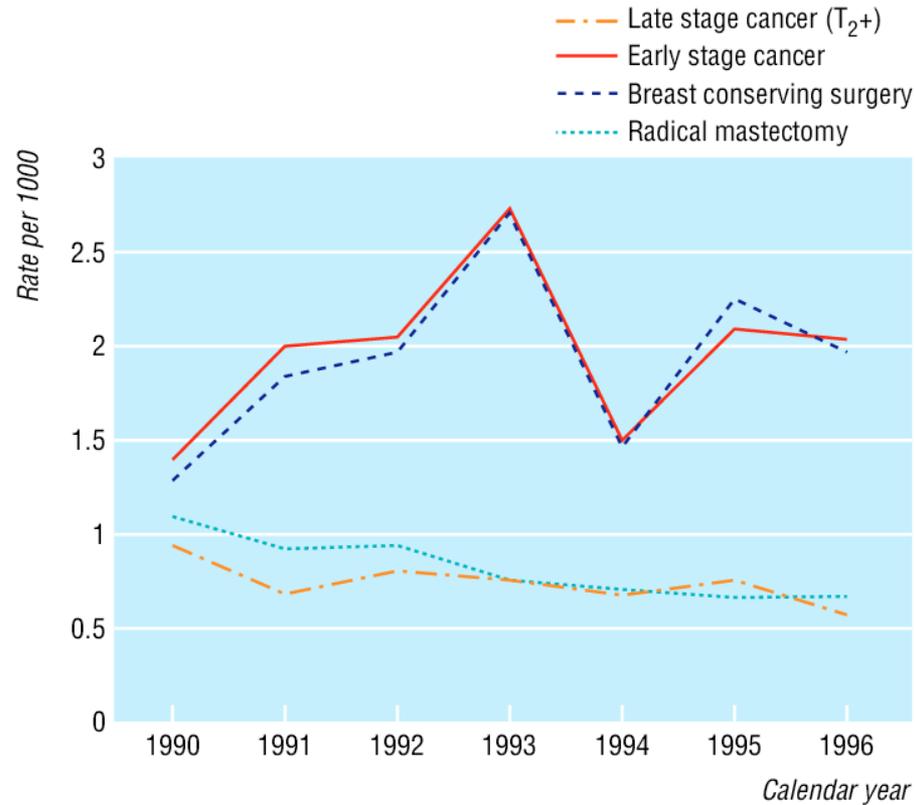
26 maggio

Massimiliano Bortolini

Unità di Senologia – ASL Città di Torino

Are breast cancer screening programmes increasing rates of mastectomy? Observational study

Eugenio Paci, Stephen W Duffy, Daniela Giorgi, Marco Zappa, Emanuele Crocetti, Vania Vezzosi, Simonetta Bianchi, Luigi Cataliotti, Marco Rosselli del Turco



No of mammograms per calendar year

1990	1991	1992	1993	1994	1995	1996
2018	8357	10 297	17 298	8965	16 766	10 774

Size of breast cancers and type of operation

ORIGINAL ARTICLE

**RATES FOR MASTECTOMY ARE LOWER IN WOMEN ATTENDING
A BREAST-SCREENING PROGRAMME**

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Table 3. Distribution of invasive and *in situ* disease

	Screen (n = 397) %	Non-screen (n = 326) %
Invasive	72.0	79.6
Invasive + CIS	52.9	51.8
CIS only	27.2	9.8

CIS, carcinoma *in situ*.

Table 4. Reasons for mastectomy

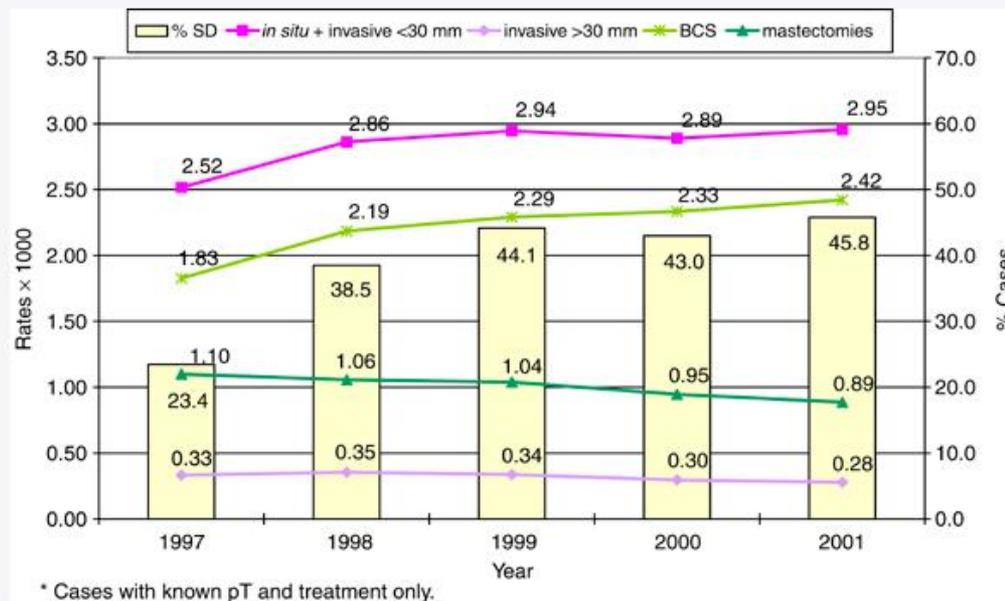
Reason	Screen group mastectomies (n = 162) %	Non-screen group mastectomies (n = 184) %
Disease extent	37.7	46.7
Patient choice	35.8	22.8
Positive margins	23.5	16.8
Other	3.0	13.7

Chirurgia Conservativa (59,5%) vs Mastectomia (42,3%).

Short Communication

Mastectomy rates are decreasing in the era of service screening: a population-based study in Italy (1997–2001)

M Zorzi¹, D Puliti², M Vettorazzi¹, V De Lisi³, F Falcini⁴, M Federico⁵, S Ferretti⁶, IF Moffa⁷, L Mangone⁸, MP Mano⁹, C Naldoni¹⁰, A Ponti¹¹, A Traina¹², R Tumino¹³ and E Paci^{*2} for the IMPACT Working Group¹⁴



Women aged 50–69 years: trends of incidence rates (per 1000) of breast cancer cases and surgical interventions*. Proportion of SD cases (first and subsequent) by year.

Short communication

Breast screening has increased the number of mastectomies

J Michael Dixon

Breakthrough Research Unit, Edinburgh, Edinburgh Breast Unit, Western General Hospital, Edinburgh EH4 2XU, UK

Corresponding author: J Michael Dixon, mike.dixon@ed.ac.uk

Published: 18 December 2009

This article is online at

<http://breast-cancer-research.com/supplements/11/S3/S19>

Breast Cancer Research 2009, **11(Suppl 3):S19**

(doi:10.1186/bcr2438)

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Figure 1

Numbers with DCIS

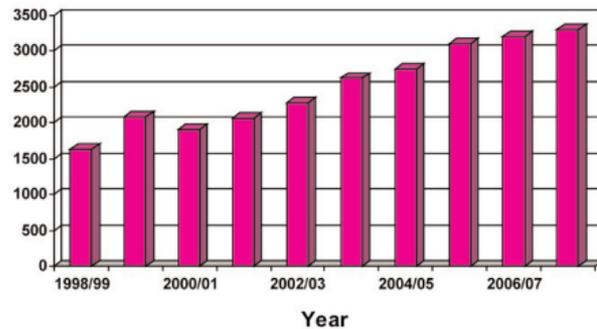


Figure 2

% treated by BCS or Mastectomy

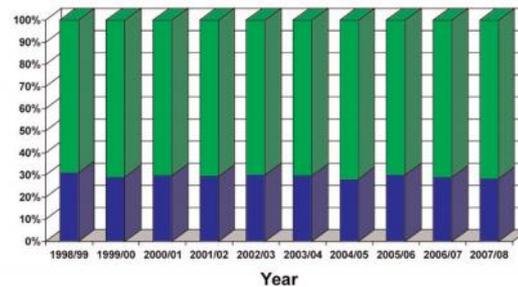
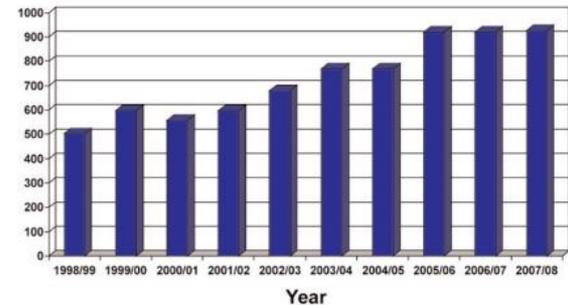
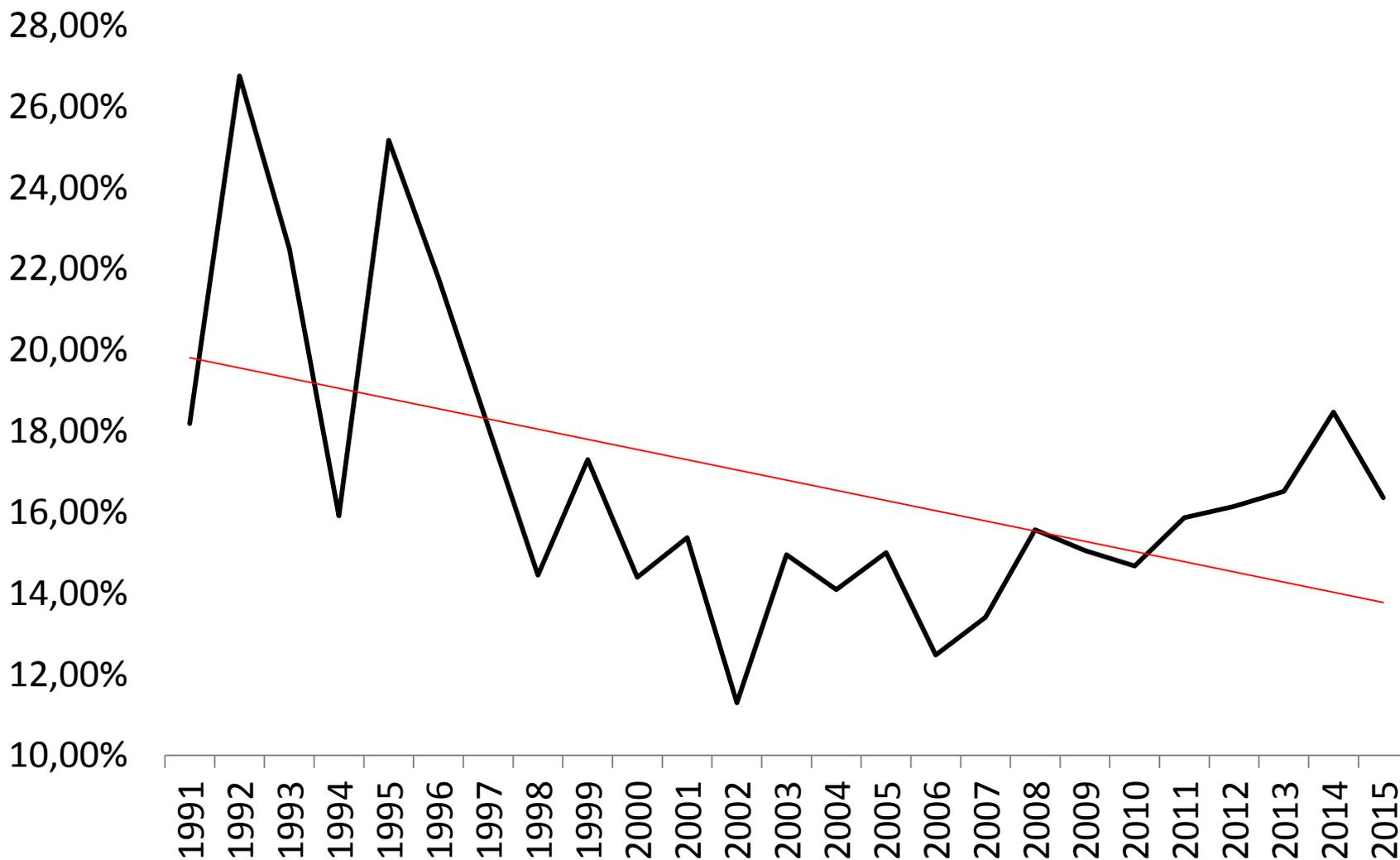


Figure 3

Numbers treated by Mastectomy



% Mastectomie nelle pazienti Screen Detected





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EJSO

the Journal of Cancer Surgery

www.ejso.com

Review

Should patients with early breast cancer still be offered the
choice of breast conserving surgery or mastectomy?



N. Johns, J.M. Dixon*

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Accepted 18 August 2016

Available online 31 August 2016

*La scelta del trattamento
chirurgico deve essere
"modellata" sulla base*

- tipo di lesione*
- tipo di mammella*
- tipo di persona*

*Questi aspetti devono portare a
scelte che rispettino*

i rischi oncologici

gli esiti estetici

esiti funzionali

OBIETTIVI TRATTAMENTO

- EVITARE SOVRATRATTAMENTI

***- RENDERE LE PROCEDURE
DI AGNOSTICO-TERAPEUTICHE IL
MENO COSTOSE POSSIBILE IN
TERMINI ECONOMICI E UMANI***

- **RISULTATO ESTETICO PIU' FACILMENTE ACCETTABILE**
- **LIVELLI DI ALTERAZIONE PSICOLOGICA PIU' BASSI**
- **MINOR ANSIA E SINDROMI ANSIOSO DEPRESSIVE**
- **MIGLIOR RAPPORTO CON LA SESSUALITA'**
- **AUTOSTIMA NON DANNEGGIATA**

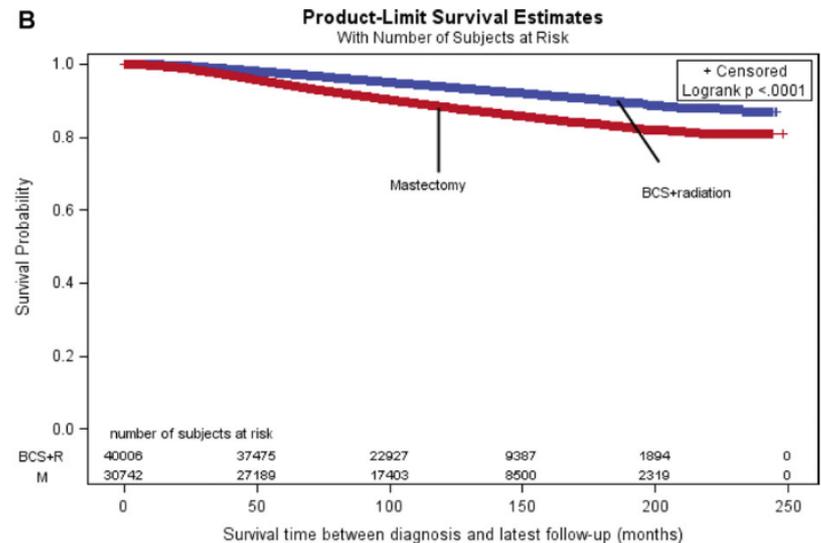
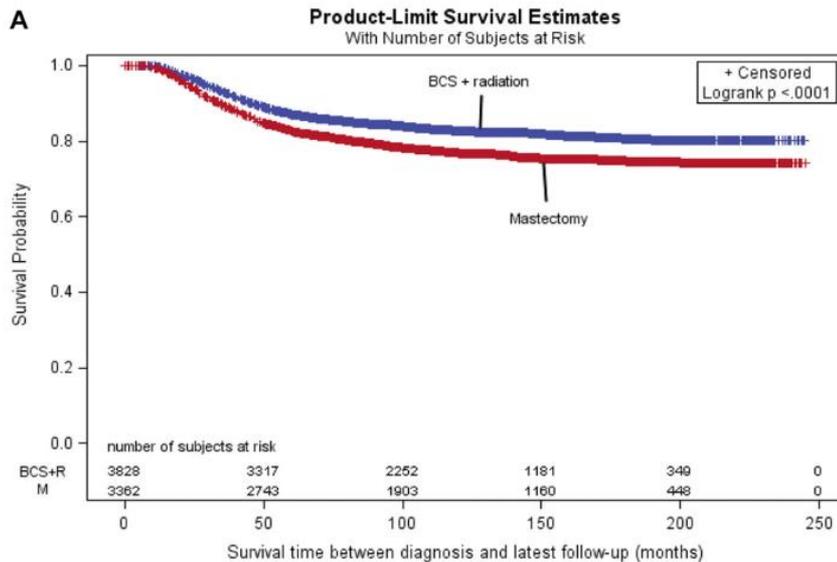
1. LA CHIRURGIA CONSERVATIVA HA SOPRAVVIVENZA MIGLIORE?^

Original Article

Survival After Lumpectomy and Mastectomy for Early Stage Invasive Breast Cancer

The Effect of Age and Hormone Receptor Status

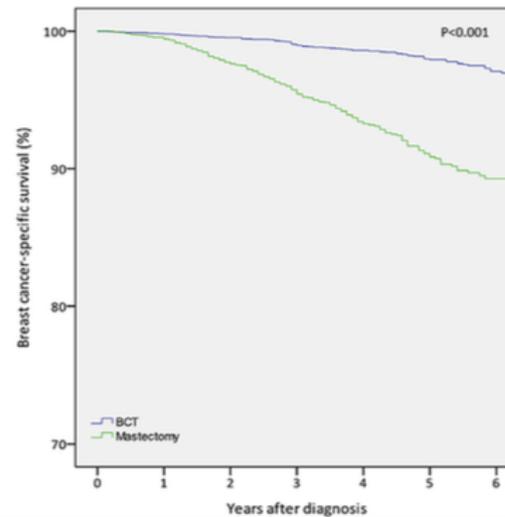
E. Shelley Hwang, MD, MPH¹; Daphne Y. Lichtensztajn, MS³; Scarlett Lin Gomez, PhD³; Barbara Fowble, MD²; and Christina A. Clarke, PhD³



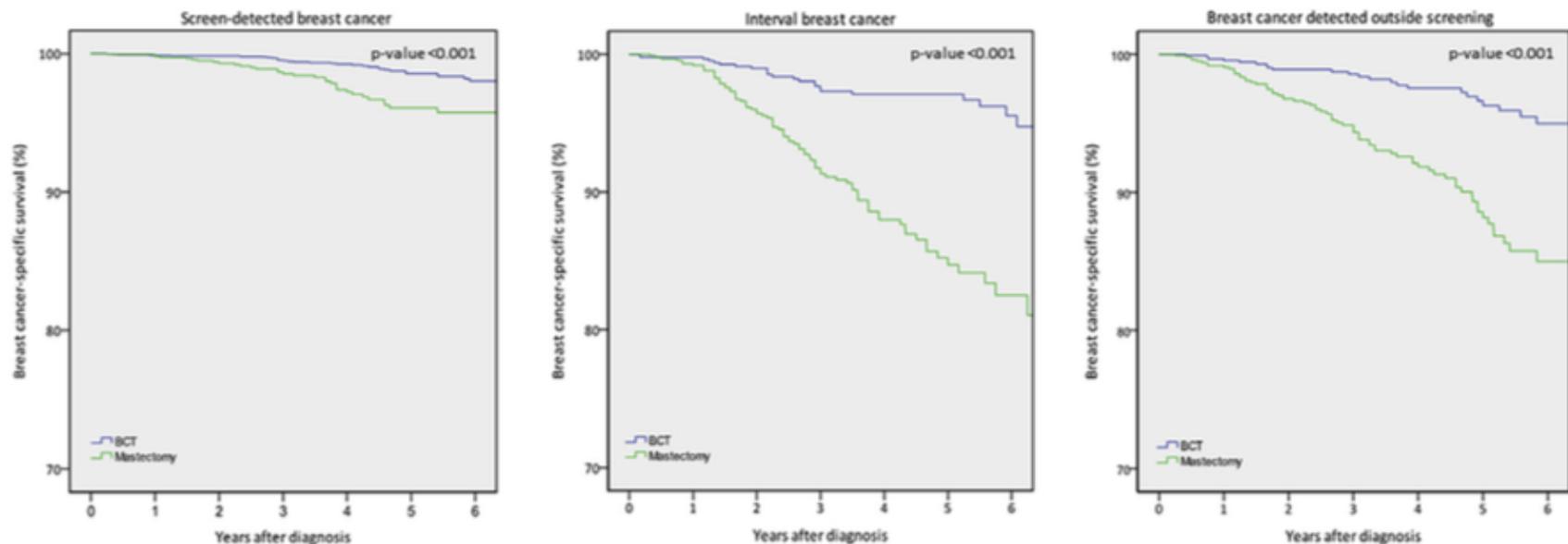
Women treated with breast conserving surgery do better than those with mastectomy independent of detection mode, prognostic and predictive tumor characteristics



S. Hofvind ^{a,b,*}, Å. Holen ^a, T. Aas ^c, M. Roman ^{a,d},
S. Sebuødegård ^a, L.A. Akslen ^{e,f}



	Survival of breast cancer by surgical procedure			
	n	2 years (95% CI)	4 years (95% CI)	6 years (95% CI)
BCT	5906	99.5% (99.3-99.7)	98.6% (98.2-99.0)	97.1% (96.3-97.9)
Mastectomy	3641	97.7% (97.1-98.3)	93.4% (92.5-94.3)	89.3% (87.7-90.9)



	Survival of screen-detected breast cancer			Survival of interval breast cancer			Survival of breast cancer detected outside screening					
	n	2 years (95% CI)	4 years (95% CI)	6 years (95% CI)	n	2 years (95% CI)	4 years (95% CI)	6 years (95% CI)	n	2 years (95% CI)	4 years (95% CI)	6 years (95% CI)
BCT	3946	99.8% (99.6-100)	99.2% (98.8-99.6)	98.0% (97.2-98.8)	926	99.0% (98.2-99.8)	97.1% (95.8-98.4)	95.5% (93.5-97.6)	1034	98.9% (98.1-99.7)	97.5% (96.4-98.7)	95.0% (93.0-97.1)
Mastectomy	1613	99.3% (98.9-99.7)	97.4% (96.5-98.4)	95.7% (94.2-97.2)	943	95.8% (94.5-97.1)	88.0% (85.6-90.4)	82.2% (79.0-86.1)	1085	96.8% (95.7-97.9)	92.1% (90.1-94.1)	85.0% (81.7-88.4)

Figure 2. Breast cancer survival by surgical procedure, stratified by detection mode (screen-detected, interval cancer and outside the screening program) among Norwegian women aged 50–69 years old, diagnosed with breast cancer 2005–2011.

ORIGINAL ARTICLE – BREAST ONCOLOGY

Breast-Conserving Therapy Achieves Locoregional Outcomes Comparable to Mastectomy in Women with T1-2N0 Triple-Negative Breast Cancer

Zachary S. Zumsteg, MD¹, Monica Morrow, MD², Brittany Arnold¹, Junting Zheng, MS³, Zhigang Zhang, PhD³, Mark Robson, MD⁴, Tiffany Traina, MD⁴, Beryl McCormick, MD¹, Simon Powell, MD, PhD¹, and Alice Y. Ho, MD¹

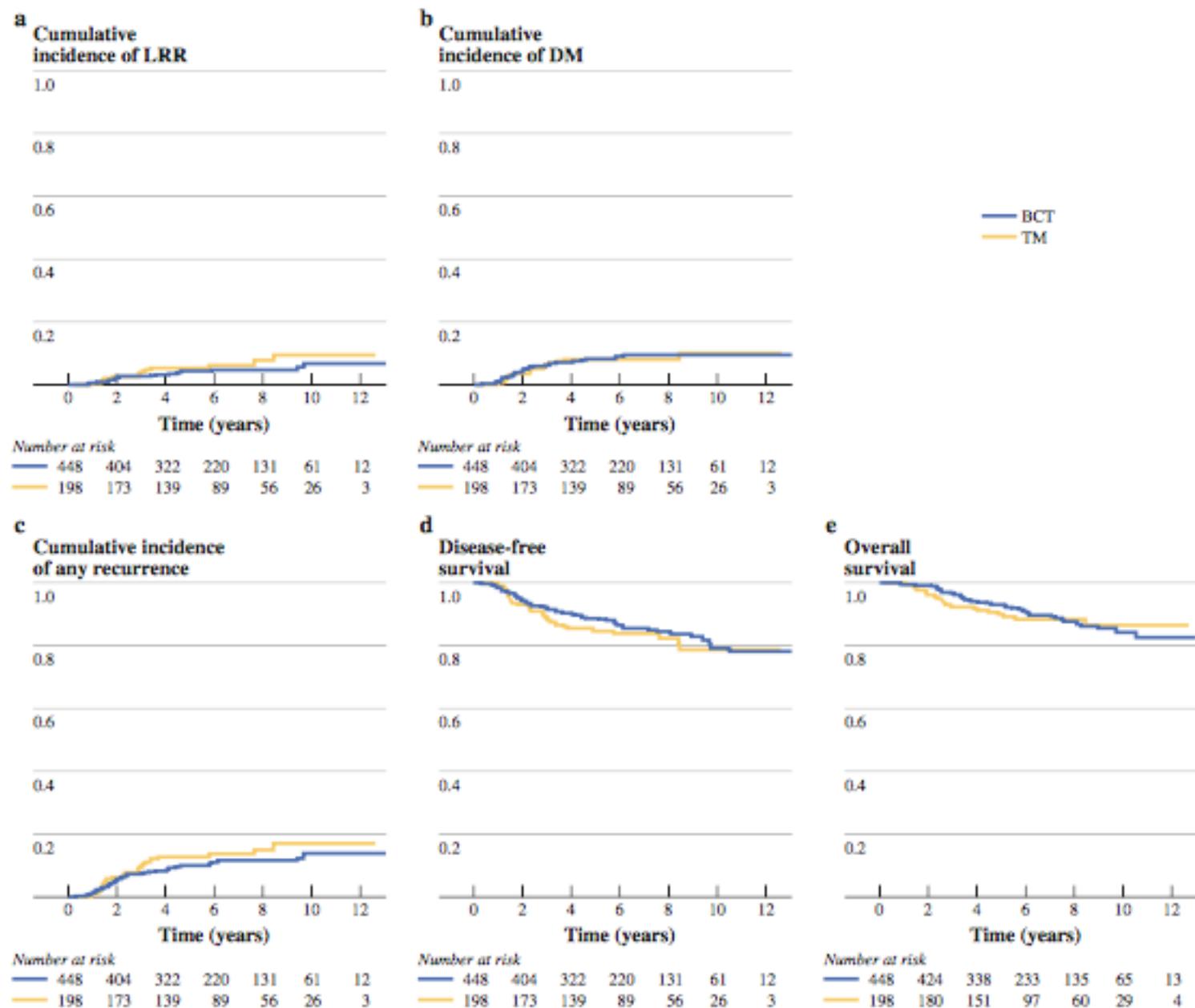


FIG. 1 Cumulative incidence of locoregional recurrence (a), cumulative incidence of distant metastasis (b), cumulative incidence of overall recurrence (c), disease-free survival (d), and overall survival (e) for patients undergoing breast-conserving therapy and mastectomy

2. LA CHIRURGIA DEMOLITIVA HA COSTI E COMPLICANZE MAGGIORI



JNCI J Natl Cancer Inst (2017) 109(1): djw178

doi: 10.1093/jnci/djw178

First published online September 27, 2016

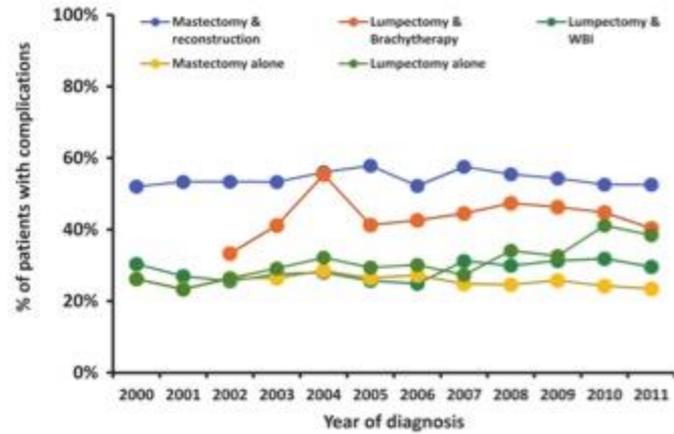
Article

ARTICLE

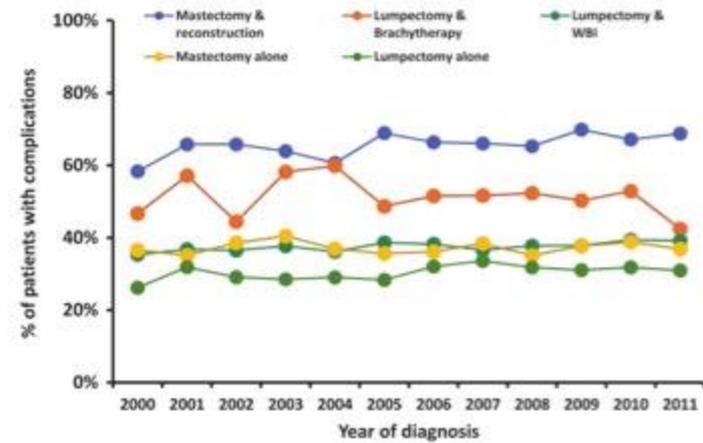
Cost and Complications of Local Therapies for Early-Stage Breast Cancer

Benjamin D. Smith, Jing Jiang, Ya-Chen Tina Shih, Sharon H. Giordano,
Jinhai Huo, Reshma Jagsi, Adeyiza O. Momoh, Abigail S. Caudle,
Kelly K. Hunt, Simona F. Shaitelman, Thomas A. Buchholz,
Shervin M. Shirvani

A MarketScan

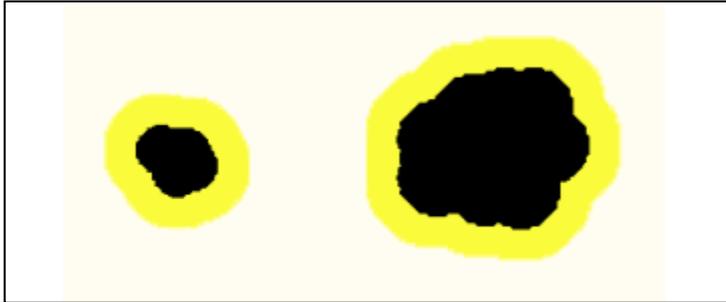


B SEER-Medicare

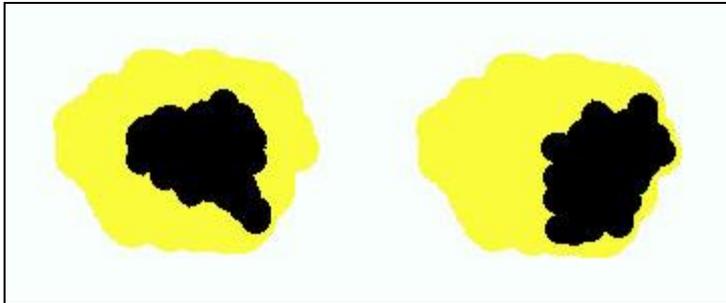


3. MARGINI INDENNI A 2 MM, 1 O MENO E CA MULTICENTRICI

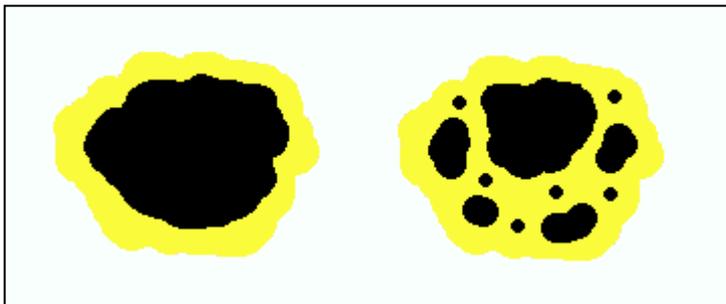
MARGINI INDENNI



DIAMETRO LESIONE



ESTENSIONE AREA A
"RIDOSSO"

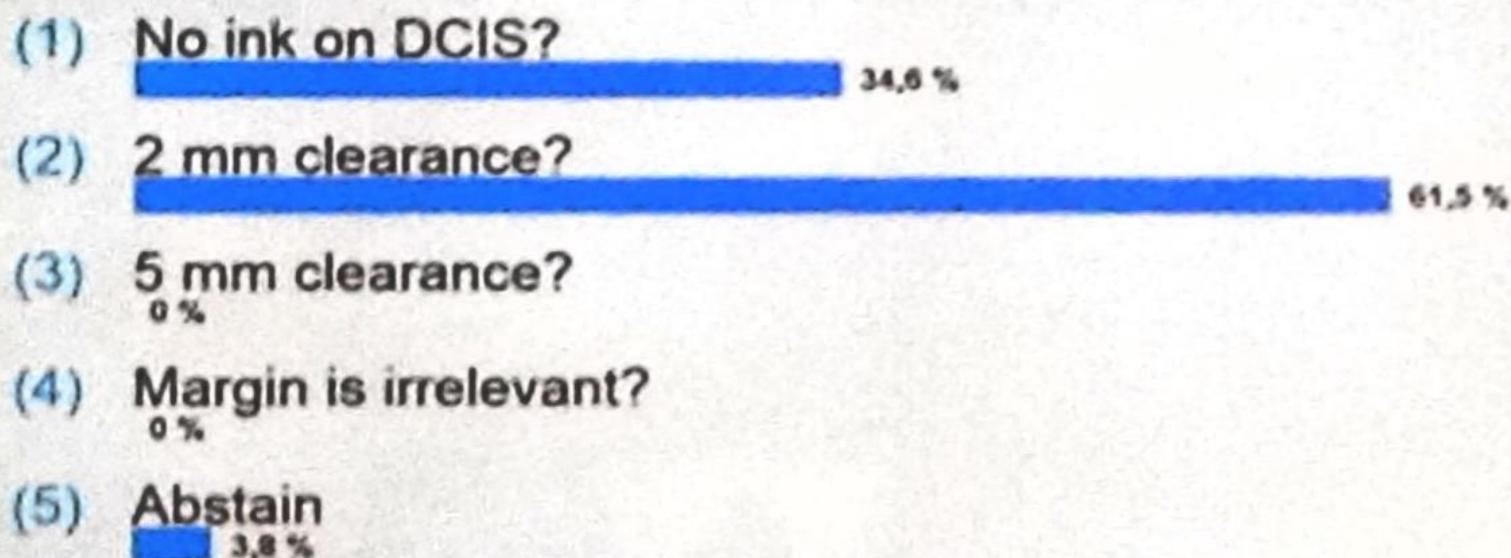


MULTIFOCALITA'

NO INK

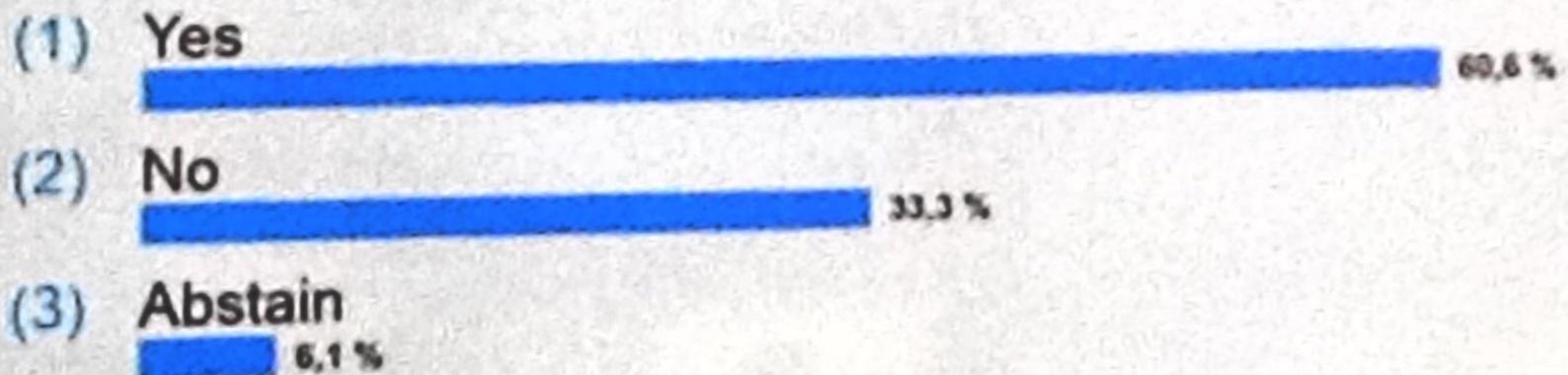
Breast Conserving Surgery of the Primary (DCIS)

1. In women undergoing breast conserving surgery for DCIS and planned whole breast radiation treatment which **minimum** margin width is sufficient to avoid re-excision?



Primary Surgery of Multi-focal/ Multicentric Disease

3. Tumor foci in more than one 'quadrant' of the breast
(**multicentric**) can be treated with breast conservation,
provided margins are clear and adequate RT is planned.



5. LA CHEMIOTERAPIA NEOADIUVANTE



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the Journal of Cancer Surgery

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Review

Breast conservation following neoadjuvant therapy for breast cancer in the modern era: Are we losing the opportunity?



C. Criscitiello ^{a,*}, G. Curigliano ^a, H.J. Burstein ^b, S. Wong ^c,
A. Esposito ^a, G. Viale ^a, M. Giuliano ^d, U. Veronesi ^a,
M. Santangelo ^e, M. Golshan ^f

Table 1

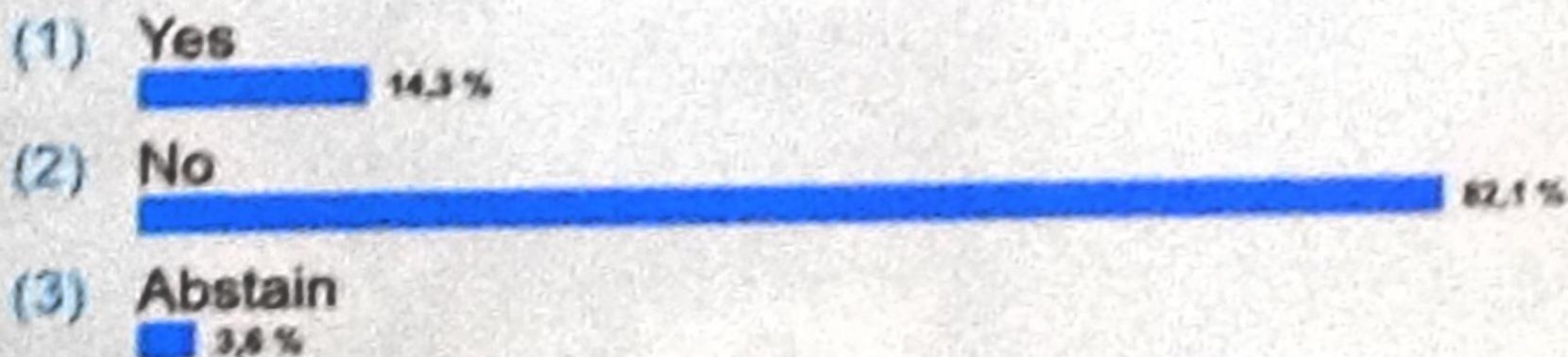
Breast conservation rates across clinical trials.

Study title	Trial design	pCR definition	pCR rate	BCT rate	BCT conversion rate
NSABP B-18	Neoadjuvant AC × 4 vs Adjuvant AC × 4	ypT0/is ypN0	13%	68% vs 60%	NA
CALGB 40603 (stage II/III TNBC)	Neoadjuvant paclitaxel (P) × 12 weeks ± carboplatin (C) ± bevacizumab (B) followed by doxorubicin plus cyclophosphamide (AC) × 4 cycles ± bevacizumab	ypT0 ypN0	60% (candidate pre and post NST) 50% (candidate pre-NST only) 58% (candidate post-NST only) 41% (no candidate pre and post-NST)	47%	61% P 73% P + B > B 70% P + CB 68% P + CB + B > B
NeoALTTO (HER2+)	NeoAdjuvant Lapatinib (L) and/or Trastuzumab (T)	ypT0/is ypN0	24.7% L 29.5% T 51.3% L + T	42.9% L 38.9% T 41.4% L + T	30.8% L 27.7% T 26.4% L + T
NeoSphere (HER2+)	4 × NeoAdjuvant Docetaxel (D) and/or Trastuzumab (T) and/or Lapatinib (L)	ypT0/is ypN0	29% T + D 45.8% P + T + D 16.8% P + T 24% P + D		
NSABP-B41 (HER2+)	Trastuzumab (T) Plus Lapatinib (L) vs Trastuzumab vs Lapatinib with Weekly Paclitaxel (P) Following AC × 4	ypT0/is ypN0	49.1% AC × 4 + P + T 47.4% AC × 4 + P + L 60.4% AC × 4 + P + T + L		
TRYPHAENA (HER2+)	Pertuzumab (P) plus trastuzumab (T) in combination with chemotherapy: FEC followed by docetaxel (D) or taxane + carboplatin (TC)		61.6% ARM A 57.3% ARM B 66.2% ARM C		21.7% Arm A 16.7% Arm B 27.0% Arm C
GeparSixto (GBC 66) (HER2+, TNBC)	Addition of neoadjuvant carboplatin (C) to paclitaxel (P)+ non-pegylated liposomal doxorubicin (D) + target therapy: Bevacizumab (B) in TNBC; Trastuzumab + Lapatinib (TL) in HER2+	ypT0 ypN0	TNBC: 53.2% PD + B + C 36.9% PD + B HER2+: 32.8% PD + TL + C 36.8% PD + TL		
CHERLOB (HER2+)	NeoAdjuvant Lapatinib (L) and/or Trastuzumab (T)	ypT0/is ypN0	25% T 26,3% L 46,7% T + L	66,7% T 57,9% L 68,9 T + L	61,9% T 42,8% L 60% T + L

Surgery of the Primary (IBC) after Neo-Adjuvant Systemic Therapy

9. In women undergoing breast conserving surgery after neo-adjuvant chemotherapy and proceeding to standard radiation with or without additional adjuvant systemic therapy.

Should the entire area of the original primary be resected after downstaging?



Surgery of the Primary (IBC) after Neo-Adjuvant Systemic Therapy

10. In women undergoing breast conserving surgery after neo-adjuvant chemotherapy and proceeding to standard radiation with or without additional adjuvant systemic therapy.

Which is the *minimum* acceptable surgical margin to avoid re-excision (with multifocal residual disease in the pathological specimen)?

- | | |
|--|---|
| (1) No ink on invasive tumor or DCIS?
 55,2 % | (4) > 5mm clearance?
 3,4 % |
| (2) 2 mm clearance?
 27,6 % | (5) Margin is irrelevant?
0 % |
| (3) > 2 – 5 mm clearance?
 6,9 % | (6) Abstain
 6,9 % |

5. LA CHIRURGIA ONCOPLASTICA (SICUREZZA E SOPRAVVIVENZA)



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EJSO
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Short term safety of oncoplastic breast conserving surgery for larger tumors



D.J. Wijnman^{a,*}, B. ten Wolde^b, N.R.A. van Groesen^a,
M.E. Keemers-Gels^a, F.J.H. van den Wildenberg^a, L.J.A. Strobbe^a

^aDepartment of Surgical Oncology, B58, Canisius Wilhelmina Ziekenhuis, Weg door Jonkerbos 100, 6532 SB Nijmegen, The Netherlands

^bDepartment of Surgery, Radboud University Medical Center, Postbus 9101 (618), 6500 HB Nijmegen, The Netherlands

Table 3
Postoperative complication rate, resection margins and re-excision rate.

	Oncoplastic group (n = 314)	Lumpectomy group (n = 528)	P-value
Wound complications – n (%)			
Hematoma or bleeding	31 (11.4)	59 (12.8)	0.572
Infection	11 (4.0)	12 (2.6)	0.281
Seroma	17 (6.2)	23 (5.0)	0.471
Pain – n (%)			
Yes	12 (4.4)	9 (1.9)	0.054
No	261 (95.6)	453 (98.1)	
Clavien Dindo classification – n (%)			
No complications	201 (64.0)	350 (66.3)	0.160
Grade I	56 (17.8)	101 (19.1)	
Grade II	13 (4.1)	11 (2.1)	
Grade III	6 (1.9)	3 (0.6)	
Mastectomy/Re-excision	38 (12.1)	63 (11.9)	
Resection margins – n (%)			
Radical excision	243 (77.4)	432 (81.8)	0.119
Positive surgical margins	71 (22.6)	96 (18.2)	
Re-excision – n (%)			
Breast conserving surgery	15 (4.8)	35 (6.6)	0.337
Mastectomy	27 (8.6)	35 (6.6)	
No re-excision	272 (86.6)	458 (86.7)	

Long-term Results After Oncoplastic Surgery for Breast Cancer

A 10-year Follow-up

Krishna B. Clough, MD,* Raquel F. D. van la Parra, MD, PhD,* Helene H. Thygesen, PhD,† Eric Levy, MD,*
Elisabeth Russ, MD,* Najeeb M. Halabi, PhD,‡ Isabelle Sarfati, MD,* and Claude Nos, MD*

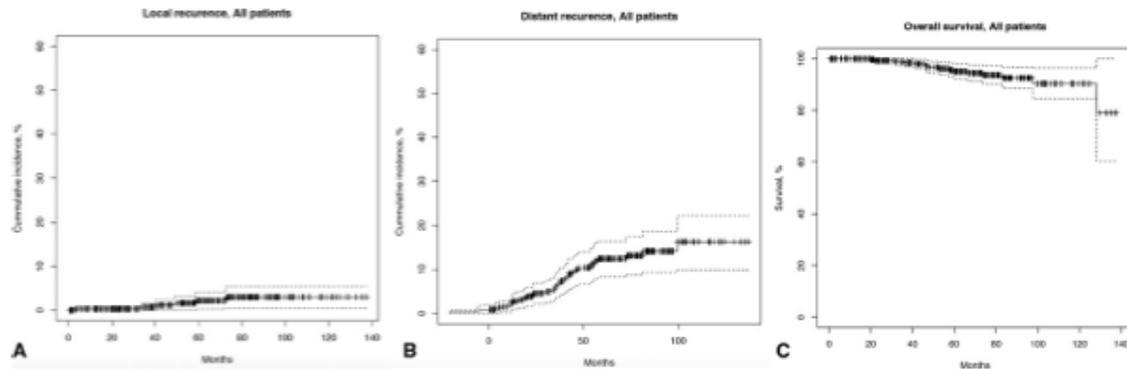


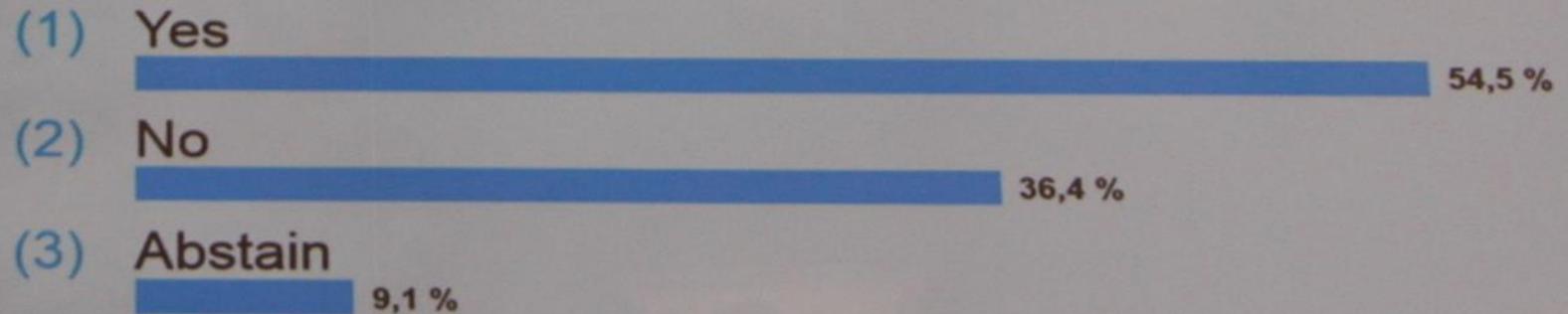
FIGURE 1. Cumulative incidence of local recurrence in the conserved breast, regional recurrence (axillary and supraclavicular), and Kaplan Meier estimates of overall survival with 95% confidence interval (dashed lines) after oncoplastic mammoplasties. A, Cumulative incidence curve for local recurrence. B, Cumulative incidence curve for distant recurrence. C, Overall survival curve.

5. RADIOTERAPIA

Radiation Therapy: After Mastectomy

45. Should post mastectomy RT (chest wall and regional nodes) be standard for patients with:

N+ 1 to 3 all patients?

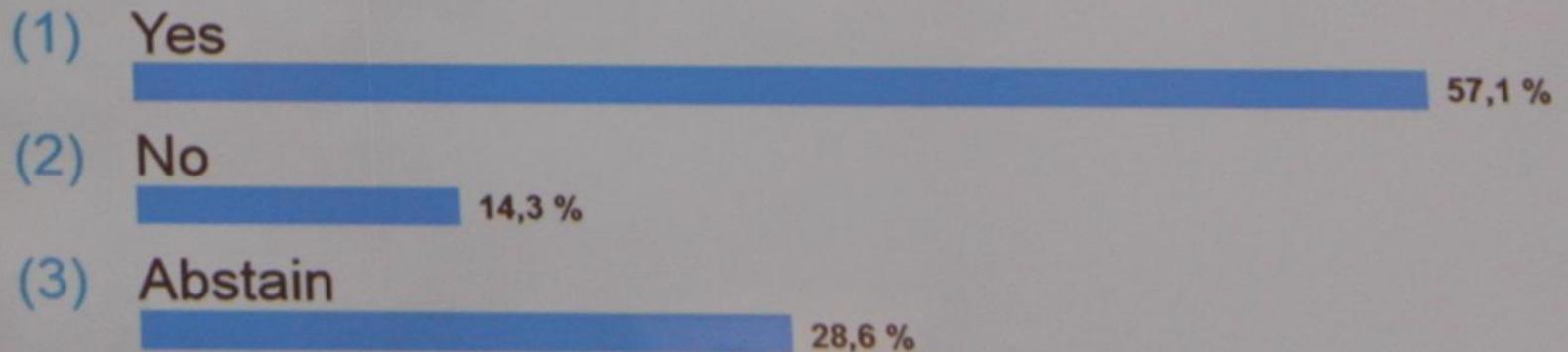


15th St.Gallen International Breast Cancer Conference 2017 Consensus

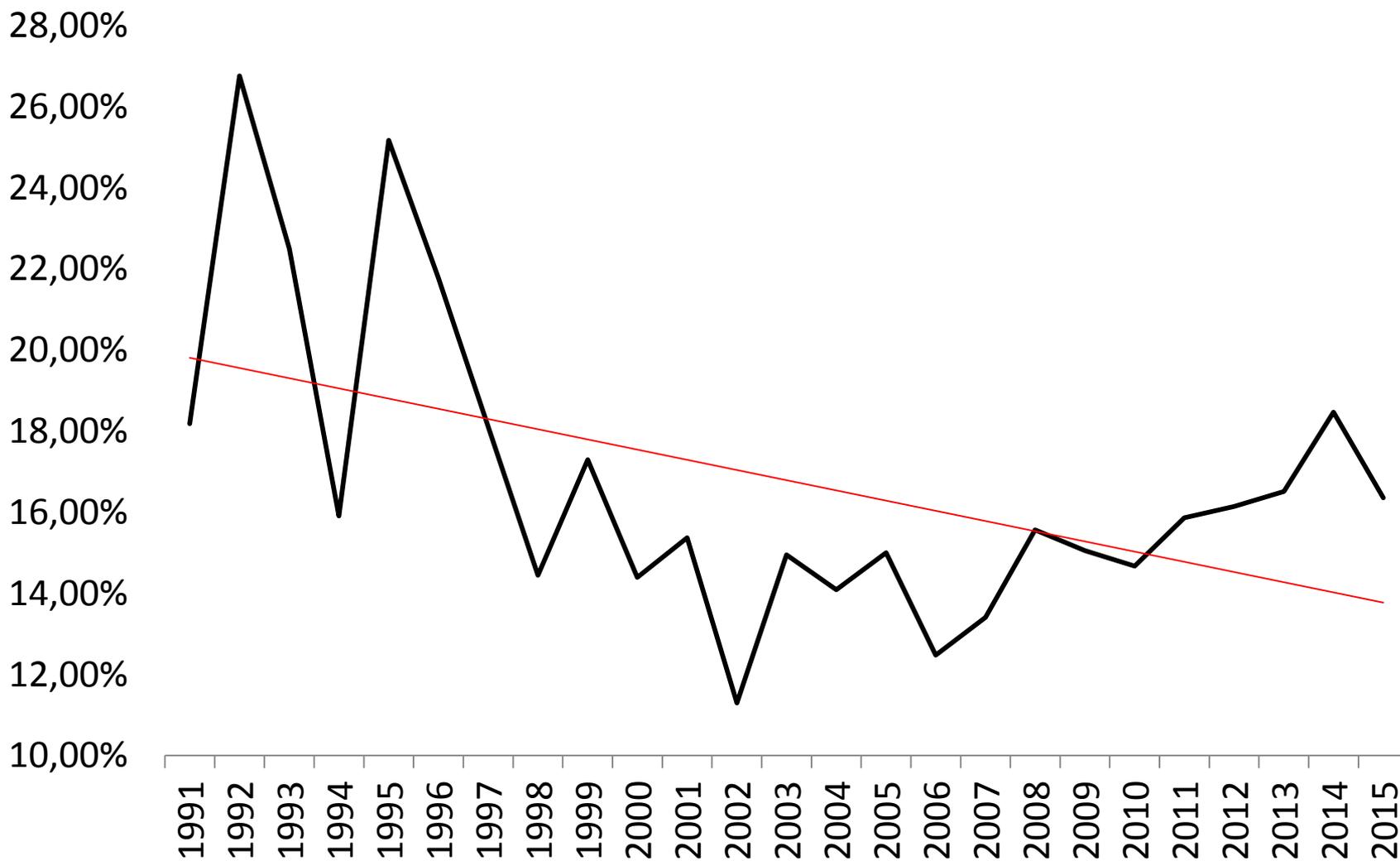
Radiation Therapy: After Mastectomy

48. Should post mastectomy RT (chest wall and regional nodes) be standard for patients with:

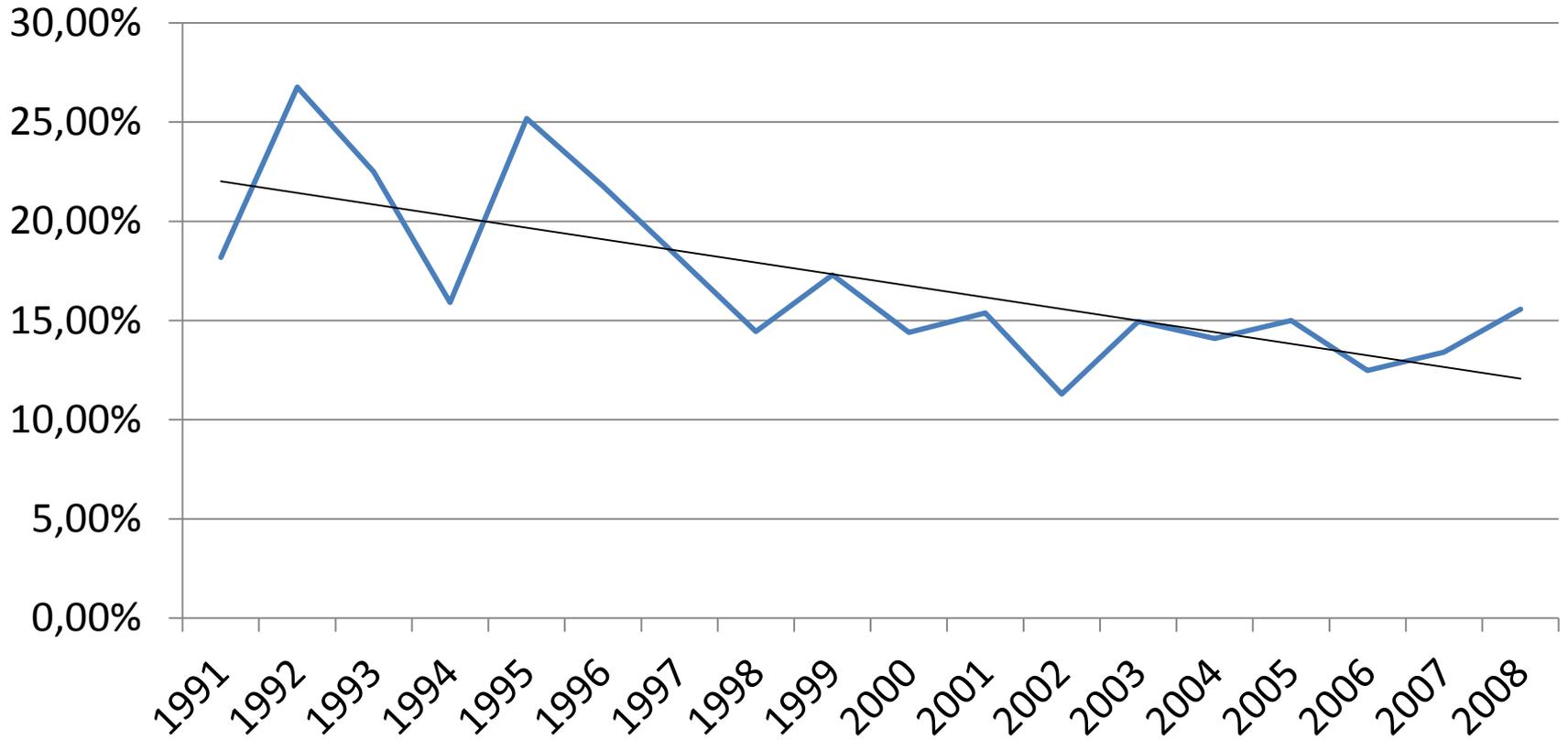
Positive sentinel node biopsy but no axillary dissection?



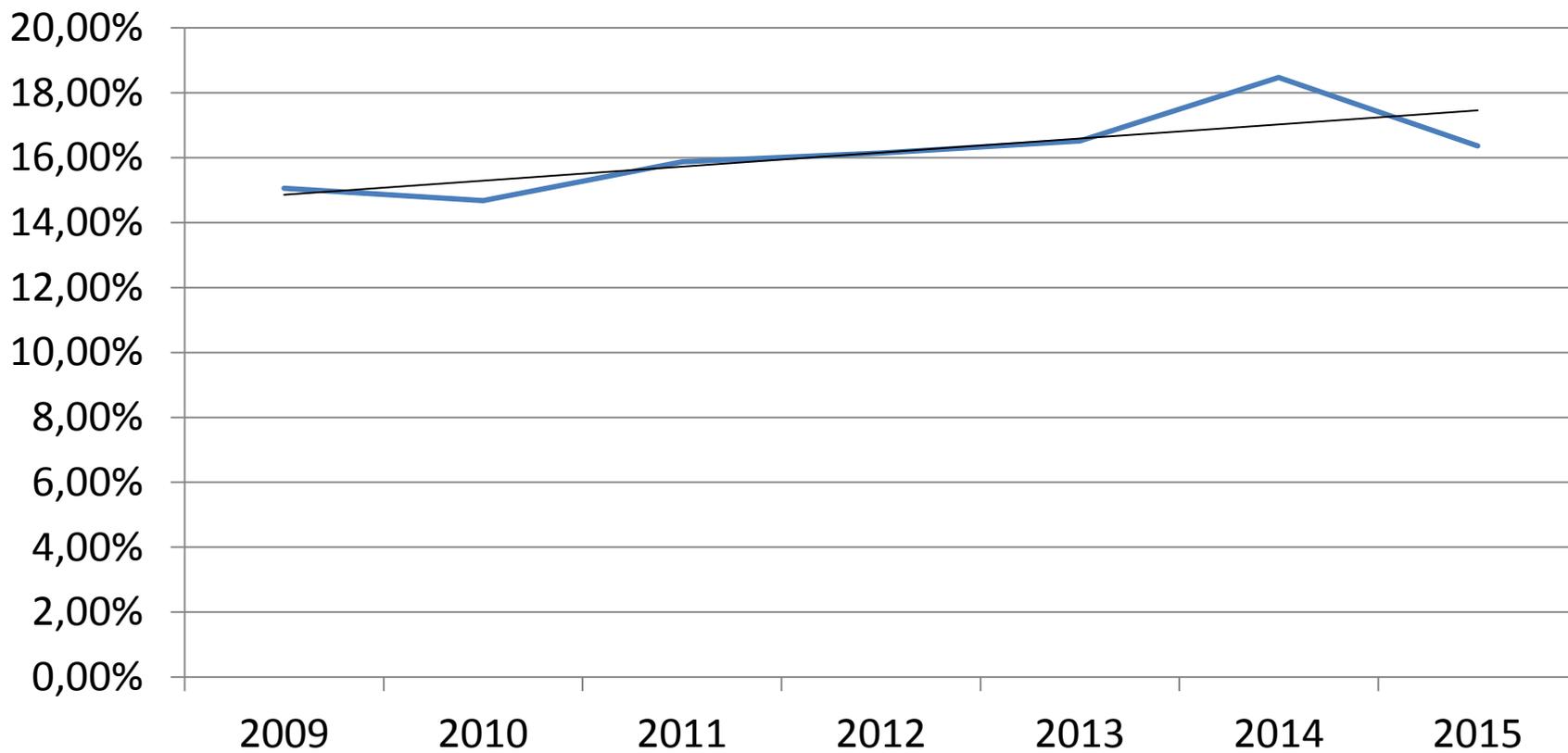
% Mastectomie nelle pazienti Screen Detected



% Mastectomie



% Mastectomie



Trend proporzione di mastectomie con ricostruzione (1991-2015)



Mastectomie

Mastectomia Totale **senza** ricostruzione

Mastectomia Totale **con** ricostruzione

Mastectomia **Skin sparing**

Mastectomia **Nipple sparing**

Tipo di ricostruzione (1° int.)

E19

Codificato

- 1 Espansore tissutale
- 2 Skin reducing+Protesi
- 3 Lembo
- 4 Lembo+Espansore o protesi
- 5 Skin Sparing
- 6 Nipple Sparing
- 7 Altro
- 9 Ignoto

Altro tipo di ricostruzione immediata

E19B

Testo

CONCLUSIONI

- SCREENING NON AUMENTA LE MASTECTOMIE
- VALUTARE SEMPRE LA CHIRURGIA CONSERVATIVA
- SOPRAVVIVENZA ALMENO IDENTICA, SE NON MIGLIORE
- COMPORTA MENO COMPLICANZE E MENO COSTI
- RICHIEDE MARGINI MINIMI
- PUO' ESSERE ESEGUITA SU TUMORI DI GRANDI DIMENSIONI (ONCOPLASTICA)
- PUO' ESSERE ESEGUITA SU TUMORI MULTICENTRICI)
- EVITA LA CHIRURGIA ASCELLARE (RT)