





Carcinoma ductal in situ:

Cuándo se puede omitir cirugía y/o radioterapia





Philip Poortmans, MD, PhD
Iridium Netwerk & Antwerp University, Antwerpen (B)









Conflict of interest

Affidea – medical advisor

MSD - consultant

And I worry about the future...

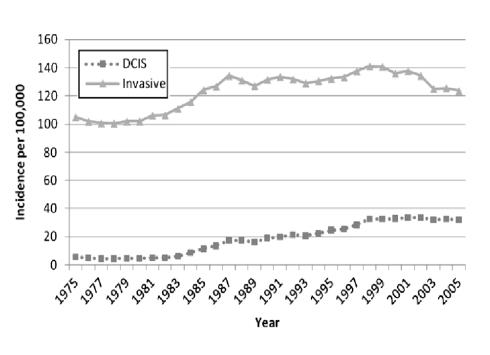


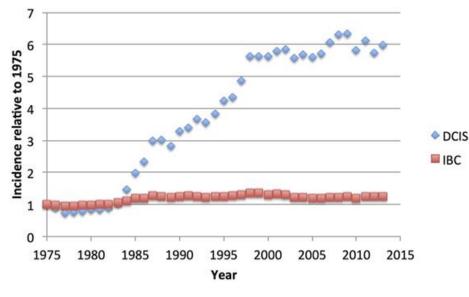
Radiation therapy for DCIS

- Introduction
- Evidence from the past
- Recent additions
- Discussion
- Conclusions

RT for DCIS: Introduction

Increasing breast cancer incidence, even (much) more for DCIS





Virnig BA, et al. doi: 10.1093/jncimonographs/lgq024

RT for DCIS: Introduction

Old thoughts & habits:

- > Rarely events after mastectomy
- ➤ Considered as pre-malignant disease
- ➤ Doubts about radiosensitivity
- ➤ Introduction of BCT followed later

Radiation therapy for DCIS

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Lumpectomy alone

Prospective, single-arm, multi-institution study:

- DCIS of predominant grade 1 or 2
- Mammographic extent ≤ 2.5 cm
- Final resection margins ≥ 1 cm
- No tamoxifen

Lumpectomy alone

Prospective, single-arm, multi-institution study:

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- No tamoxifen

July 2002: preliminary closure (157/200) of study

- Median FU of 40 months: 13 local recurrences
- 2.4% per patient-year (95% CI, 1.3% to 4.1%)
- 5-year rate of 12.5%
- 4/13 = invasive disease

Wong et al. JCO 2006;24:1031-1036.

Lumpectomy alone – ECOG trial

Prospective registration trial; median FU 6.5 years

Eligible: $-G1-2 \le 2.5$ cm

- $G3 \le 1.0$ cm
- margins ≥ 3 mm
- no residual microcalcifications post-op

Lumpectomy alone – ECOG trial

Prospective registration trial; median FU 6.5 years

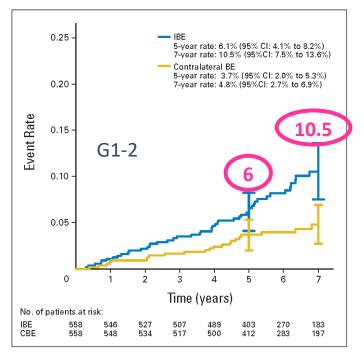
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Eligible: - G1-2 \leq 2.5 cm
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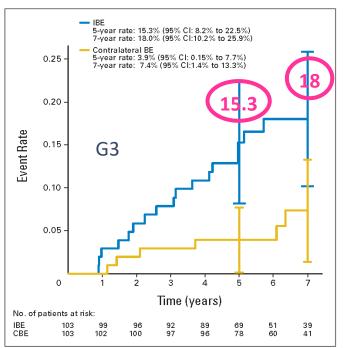
- $G3 \le 1.0$ cm
- margins ≥ 3 mm
- no residual microcalcifications post-op

Included: - G1-2 median 6 mm (77% < 10 mm): n=565

- G3 median 5 mm (88% < 10 mm): n=105
- margins \ge 5 mm: 83%; \ge 10 mm: 53%
- ≥30% received Tamoxifen (from 2000 on)

Lumpectomy alone – ECOG trial





Ipsilateral vs contralateral breast events. 53% of IBE were invasive.

Hughes et al. JCO 2009;27:5319-5324.

Nomogram for DCIS recurrence risks

Nomogram for Predicting the Risk of Local Recurrence After Breast-Conserving Surgery for Ductal Carcinoma In Situ

Udo Rudloff, Lindsay M. Jacks, Jessica I. Goldberg, Christine A. Wynveen, Edi Brogi, Sujata Patil, and Kimberly J. Van Zee

Nomogram for DCIS recurrence risks

Prospectively maintained DCIS database

All patients treated with BCT for DCIS

Between 1991 and 2006 → n = 1.868

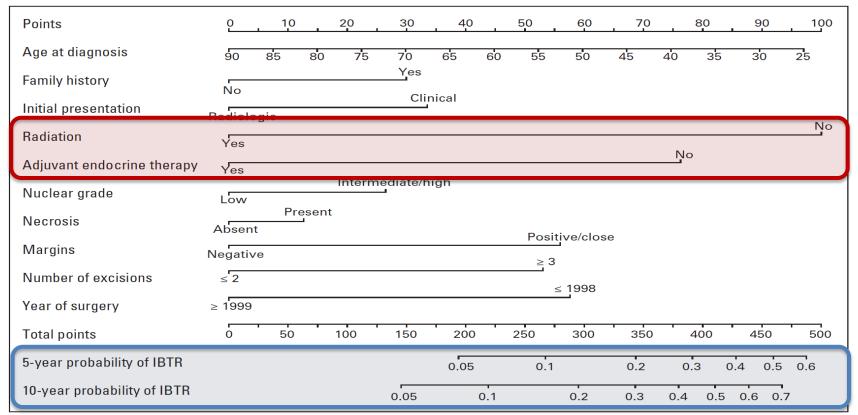
Histopathologic data from original pathology reports;

if incomplete → original slides reviewed

→ 360 of 1.868 cases; 19%

Data from 1.681 patients were complete and used

Nomogram for DCIS recurrence risks



Rudloff et al. JCO 2010;28:3762-3769.

Nomogram for DCIS recurrence risks

Limitations:

- Retrospective data
- Not randomized
- External validation required

Lumpectomy with/without RT

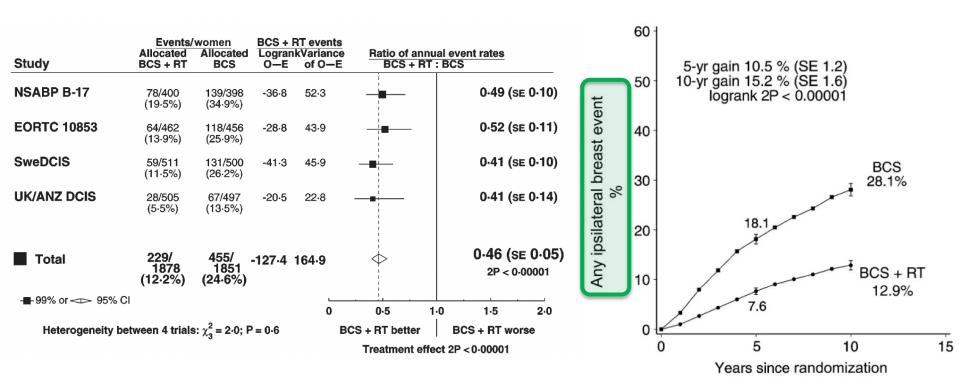
Overview of the Randomized Trials of Radiotherapy in Ductal Carcinoma In Situ of the Breast

Early Breast Cancer Trialists' Collaborative Group (EBCTCG)

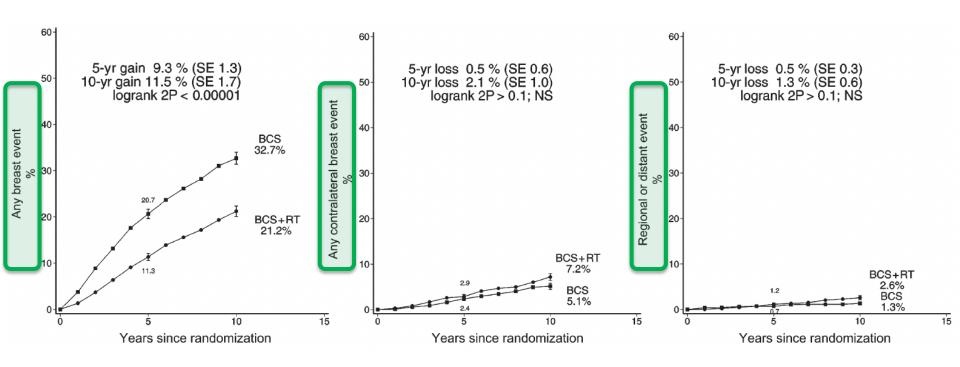
| Year code, study name (reference) | Entry dates | No. of women randomized | No. of women eligible for analysis† | Median follow- up (yr) | Mammo- graphic detection (%) | Breast and axillary surgery | Negative surgical margins required | Central pathological review | l Breast radiotherapy |
|---|-------------|-------------------------------|--|------------------------------|---------------------------------------|--|--|-----------------------------------|--|
| Data available fo | or overview | | | | | | | | |
| NSABP B-17 (3, 4, 5) | 1985–1990 | 818 | 798 | 16.5 | 80 | Local excision (37% axillary dissection) | Yes (13% involved or unknown)‡ | 623 (76%) | 50 Gy (2 Gy/f) 9% with boost |
| EORTC 10853 (6, 7, 8, 9) | 1986–1996 | 1010 | 918 | 10.4 | 72 | Local excision (20% axillary dissection) | Yes (16% "not free," <1mm, involved or unknown)‡ | 824 (82%) | 50 Gy (2 Gy/f) 5% with boost |
| SweDCIS (10, 11, 12) | 1987–1999 | 1067 | 1011 | 8.4 | 79 | Sector resection (17% axillary dissection) | No (11% positive, 9% unknown)‡ | 271 (25%) | 50 Gy (2 Gy/f) (80%) or 48 Gy (2.4 Gy/f) (13%) or 54 Gy (2 Gy/f) then 2 wk gap (7%) Boost not recommended |
| UK/ANZ DCIS§(13) | 1990–1998 | 1030 | 1002 | 4.8 | 100 | Local excision (No axillary dissection) | Yes | 0 (0%) | 50 Gy (2 Gy/f) Boost not recommended |
| Data not yet ava | ailable | | | | | diodoction | | | Todominonada |
| RTOG 9804 | 1999–2006 | 636 | - | - | ns | Local excision (No axillary dissection) | Yes | 0 (0%) | 50.4 Gy (1.8 Gy/f) or 50 Gy (2 Gy/f) or 42.5 Gy (2.7 Gy/f) Boost not recommended |

EBCTCG. J Natl Cancer Inst Monogr 2010;41:162–177.

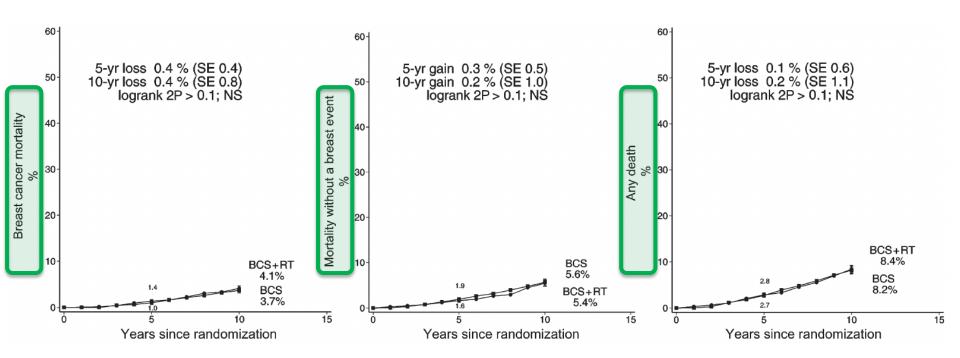
Lumpectomy with/without RT



Lumpectomy with/without RT



Lumpectomy with/without RT

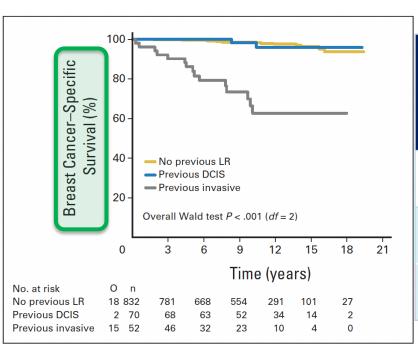


Lumpectomy with/without RT

Breast-Conserving Treatment With or Without Radiotherapy in Ductal Carcinoma In Situ: 15-Year Recurrence Rates and Outcome After a Recurrence, From the EORTC 10853 Randomized Phase III Trial

Mila Donker, Saskia Litière, Gustavo Werutsky, Jean-Pierre Julien, Ian S. Fentiman, Roberto Agresti, Philippe Rouanet, Christine Tunon de Lara, Harry Bartelink, Nicole Duez, Emiel J.T. Rutgers, and Nina Bijker

Lumpectomy with/without RT – after invasive recurrence



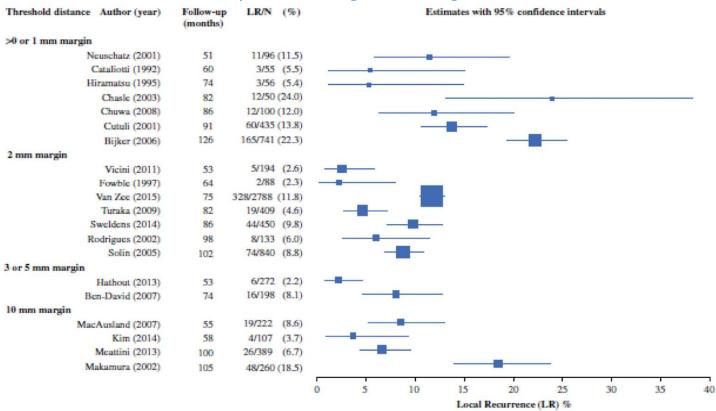
| | | Hazard ratio | | | | |
|----------------|---------------|---|--|--|--|--|
| | FU (years) | Breast cancer mortality after invasive LR | All cause mortality after invasive LR | | | |
| EORTC 10853 | 15.8 | 17.7 | 5.2 | | | |
| NSABP B17 | 17.3 | 7 1 | 1.0 | | | |
| NSABP B24 | 13.6 | 7.1 | 1.8 | | | |

Optimal surgical margins

The Association of Surgical Margins and Local Recurrence in Women with Ductal Carcinoma *In Situ* Treated with Breast-Conserving Therapy: A Meta-Analysis

M. Luke Marinovich^{1,*}, Lamiae Azizi¹, Petra Macaskill¹, Les Irwig¹, Monica Morrow², Lawrence J Solin³, and Nehmat Houssami¹

Optimal surgical margins



Optimal surgical margins

Negative margins → halved LR risk

Optimal surgical margins

Negative margins → halved LR risk

SSO-ASTRO-ASCO consensus guideline for BCS+WBI in DCIS

- ✓ 2 mm surgical margin → low LR rates without adverse cosmetic outcome
- ✓ Margin >2 mm → not significantly better
- ✓ Negative margin <2 mm → as such not an indication for mastectomy, further surgery should be guided by clinical judgment and patient preference</p>

Notes: Dutch protocol: re-excision rarely indicated

This is about pure DCIS, not about margins in associated DCIS

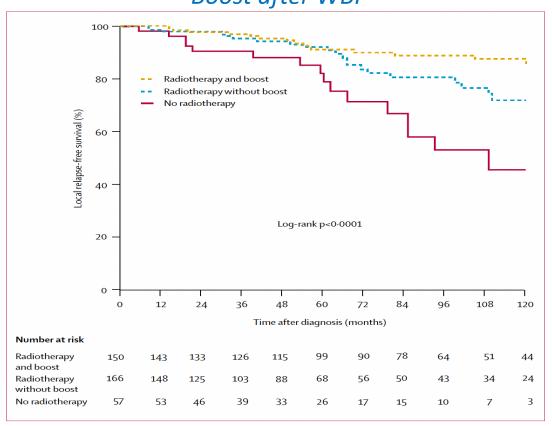
Also in DCIS, LR rates are decreasing

RT for DCIS: Evidence from the past Boost after WBI

Boost radiotherapy in young women with ductal carcinoma in situ: a multicentre, retrospective study of the Rare Cancer Network

Aurelius Omlin, Maurizio Amichetti, David Azria, Bernard F Cole, Philippe Fourneret, Philip Poortmans, Diana Naehrig, Robert C Miller, Marco Krengli, Cristina Gutierrez Miguelez, David Morgan, Hadassah Goldberg, Luciano Scandolaro, Pauline Gastelblum, Mahmut Ozsahin, Dagmar Dohr, David Christie, Ulrich Oppitz, Ufuk Abacioglu, Guenther Gruber

Boost after WBI



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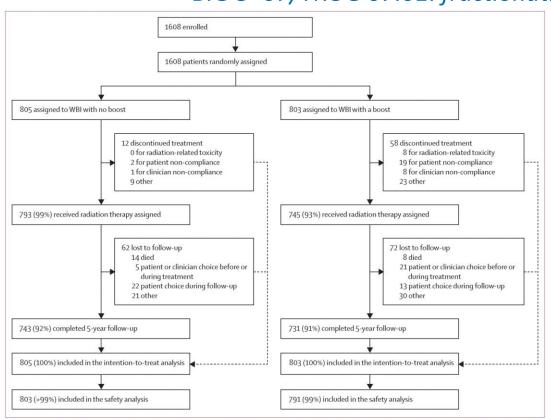
BIG 3-07/TROG 07.01: fractionation & boost in DCIS

Radiation doses and fractionation schedules in non-low-risk ductal carcinoma in situ in the breast (BIG 3-07/TROG 07.01): a randomised, factorial, multicentre, open-label, phase 3 study



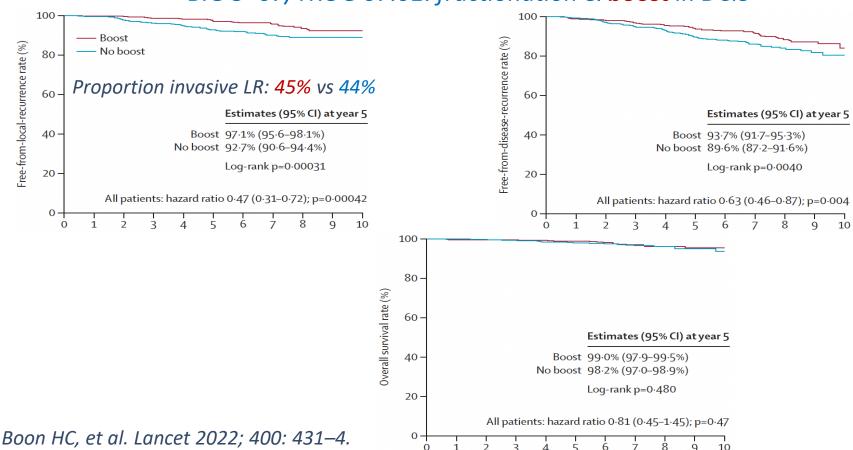
Boon H Chua, Emma K Link, Ian H Kunkler, Timothy J Whelan, A Helen Westenberg, Guenther Gruber, Guy Bryant, Verity Ahern, Kash Purohit, Peter H Graham, Mohamed Akra, Orla McArdle, Peter O'Brien, Jennifer A Harvey, Carine Kirkove, John H Maduro, Ian D Campbell, Geoff P Delaney, Joseph D Martin, T Trinh T Vu, Thierry M Muanza, Anthony Neal, Ivo A Olivotto, on behalf of the BIG 3–07/TROG 07.01 trial investigators*

BIG 3-07/TROG 07.01: fractionation & boost in DCIS

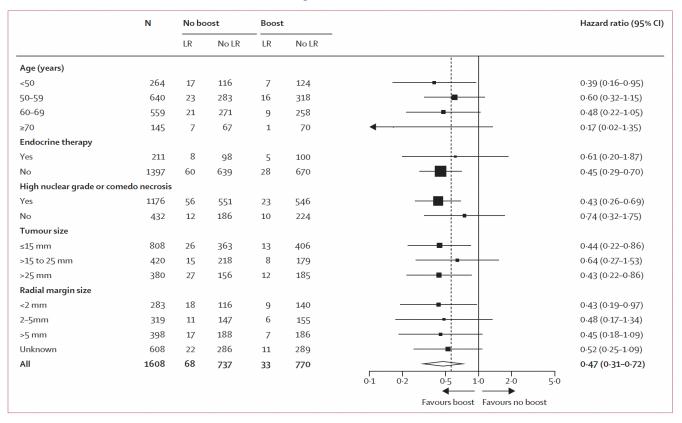


- **>** 2007 2014
- > N = 1608 patients
- > Randomised:
 - 1. boost (n = 803) vs no boost (n = 805)
 - 2. CF WBI (n = 831) & HF WBI (n = 777)
- ➤ Median FU 6.6 years.

BIG 3-07/TROG 07.01: fractionation & boost in DCIS



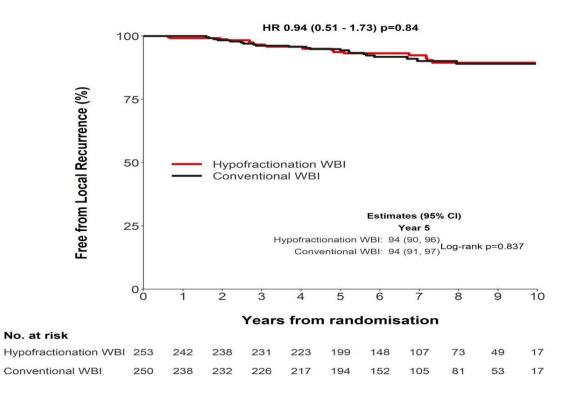
BIG 3-07/TROG 07.01: fractionation & boost in DCIS



BIG 3-07/TROG 07.01: fractionation & boost in DCIS - side effects

| <u> </u> | | | | | | 2)) 0 0 0 |
|------------------|---|--|--|--|--|---|
| No BOOST (N=805) | | BOOST (N=803) | | | Р | |
| 2 | 3 | 4 | 2 | 3 | 4 | |
| 112 | 7 | 0 | 131 | 11 | 1 | 0.25 |
| 227 | 8 | 0 | 338 | 23 | 1 | 0.006 |
| 90 | 8 | 0 | 116 | 10 | 1 | 0.49 |
| 0 | 1 | 0 | 1 | 1 | 0 | >0.99 |
| | | | | | | |
| 67 | 10 | 0 | 102 | 12 | 2 | 0.003 |
| 44 | 5 | - | 99 | 11 | - | <0.0001 |
| 4 | 3 | 0 | 16 | 4 | 0 | 0.02 |
| 2 | 0 | 0 | 6 | 1 | 0 | 0.12 |
| 0 | 1 | 0 | 1 | 0 | 3 | 0.21 |
| - | 2 | 2 | - | 0 | 0 | >0.99 |
| | No E 2 112 227 90 0 67 44 4 2 0 | No BOOST (N= 2 3 112 7 227 8 90 8 0 1 67 10 44 5 4 3 2 0 0 1 | No BOOST (N=805) 2 3 4 112 7 0 227 8 0 90 8 0 0 1 0 67 10 0 44 5 - 4 3 0 2 0 0 0 1 0 | No BOOST (N=805) BOOST (N=805) 2 3 4 2 112 7 0 131 227 8 0 338 90 8 0 116 0 1 0 1 67 10 0 102 44 5 - 99 4 3 0 16 2 0 0 6 0 1 0 1 | 2 3 4 2 3 112 7 0 131 11 227 8 0 338 23 90 8 0 116 10 0 1 0 1 1 67 10 0 102 12 44 5 - 99 11 4 3 0 16 4 2 0 0 6 1 0 1 0 1 0 | No BOOST (N=805) BOOST (N=803) 2 3 4 2 3 4 112 7 0 131 11 1 227 8 0 338 23 1 90 8 0 116 10 1 0 1 0 1 1 0 67 10 0 102 12 2 44 5 - 99 11 - 4 3 0 16 4 0 2 0 0 6 1 0 0 1 0 1 0 3 |

BIG 3-07/TROG 07.01: fractionation & boost in DCIS



RT boost



Contents lists available at ScienceDirect

Clinical Oncology

journal homepage: www.clinicaloncologyonline.net



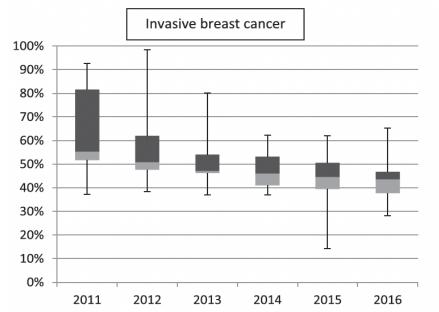
Original Article

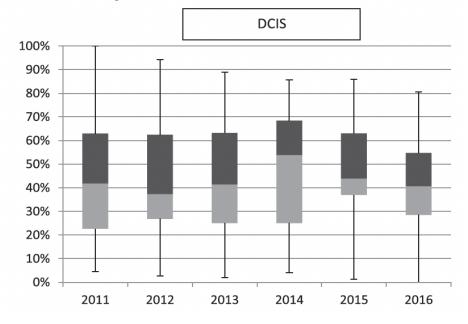
Variation in the Use of Boost Irradiation in Breast-Conserving Therapy in the Netherlands: The Effect of a National Guideline and Cofounding Factors[☆]



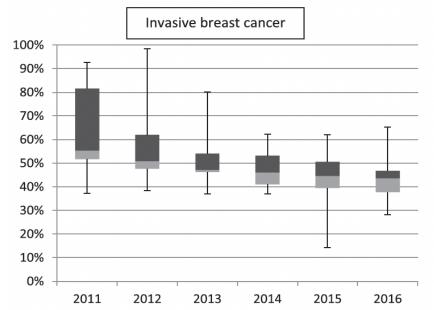
K. Schreuder *†‡, J.H. Maduro ‡§, P.E.R. Spronk ‡¶, N. Bijker ‡||, P.M.P. Poortmans **, T. van Dalen ‡††, H. Struikmans ‡‡‡, S. Siesling *†‡

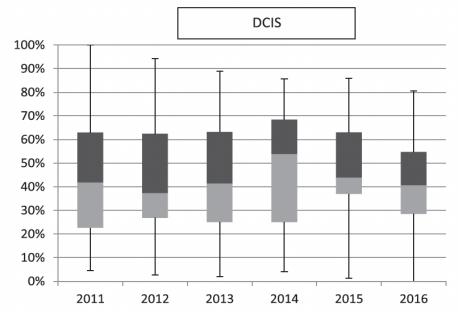
RT boost – NL, 2011-2016 after BCT





RT boost – NL, 2011-2016 after BCT





Evers J, et al Clin Oncol 2025 (2017-2022):

- Omission of surgery → 30%
- Decreased use of RT overall
- Decreased use of boost
- Introduction of PBI

Schreuder K, et al. Clin Oncology 2019;31:250e259.

What about PMRT?

Radiotherapy and Oncology 161 (2021) 177-182



Contents lists available at ScienceDirect

Radiotherapy and Oncology

journal homepage: www.thegreenjournal.com



Short Communication

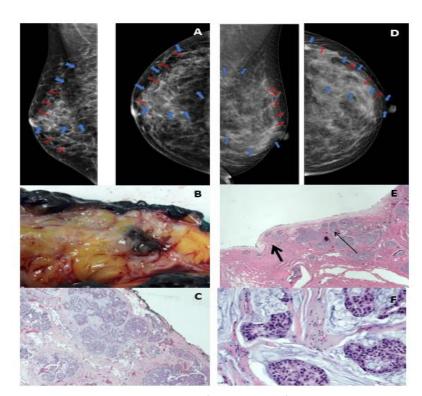
Superficial margins in skin sparing and nipple sparing mastectomies for DCIS: A margin of potential concern



Trine Tramm ^{a,*}, Peer Christiansen ^b, Birgitte Vrou Offersen ^c, Karen Berenth Madsen ^d, Philip Poortmans ^{e,f}, Orit Kaidar-Person ^{g,h}

What about PMRT?

- Even if the resection is done <u>perfectly</u>, the limits of anatomic extension of the fibroglandular tissue may be imprecise and show substantial variation
- Depending on the primary disease site within the breast, involved or close superficial margins in SSM/NSM may be underestimated



Extensive DCIS close to the margin

What about PMRT?

Critical Reviews in Oncology / Hematology 138 (2019) 207–213



Contents lists available at ScienceDirect

Critical Reviews in Oncology / Hematology

journal homepage: www.elsevier.com/locate/critrevonc



The Assisi Think Tank Meeting Survey of post-mastectomy radiation therapy in ductal carcinoma in situ: Suggestions for routine practice



- A. Montero-Luis^{a,*}, C. Aristei^b, I. Meattini^c, M. Arenas^d, L. Boersma^e, C. Bourgier^f, C. Coles^g,
- B. Cutuli^h, L. Falcinelliⁱ, O. Kaidar-Person^j, M.C. Leonardi^k, B. Offersen^l, F. Marazzi^m, S. Riveraⁿ,
- L. Tagliaferri^o, V. Tombolini^p, C. Vidali^q, V. Valentini^r, P. Poortmans^s

Partial breast irradiation

COMMENTARY



Partial breast irradiation for ductal carcinoma in situ: The Goldilocks principle?

Icro Meattini¹ MD₁ | Philip Poortmans² MD, PhD | Lorenzo Livi¹ MD | Orit Kaidar Person³ MD₁ | Stefania Pallotta⁴ PhD | Carlotta Becherini¹ MD | Livia Marrazzo⁴ PhD

Partial breast irradiation

European Society for Radiotherapy and Oncology Advisory Committee in Radiation Oncology Practice consensus recommendations on patient selection and dose and fractionation for external beam radiotherapy in early breast cancer



Icro Meattini, Carlotta Becherini, Liesbeth Boersma, Orit Kaidar-Person, Gustavo Nader Marta, Angel Montero, Birgitte Vrou Offersen, Marianne C Aznar, Claus Belka, Adrian Murray Brunt, Samantha Dicuonzo, Pierfrancesco Franco, Mechthild Krause, Mairead MacKenzie, Tanja Marinko, Livia Marrazzo, Ivica Ratosa, Astrid Scholten, Elżbieta Senkus, Hilary Stobart, Philip Poortmans*, Charlotte E Coles*

Meattini I, et al. Lancet Oncol 2022; 23: e21–31.

Partial breast irradiation

4. Partial breast irradiation-patient selection for external beam radiotherapy

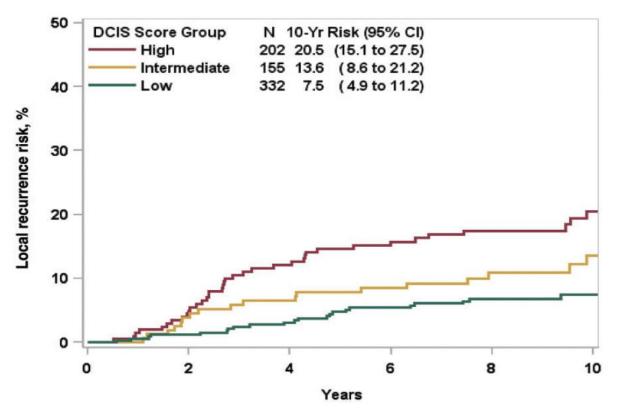
Low risk-features suitable for partial breast irradiation are: luminal-like subtypes small tumour (≤ 3 cm), absence of lymph vascular space invasion, non-lobular invasive carcinoma, tumour grade 1–2, low-to-intermediate grade DCIS (sized ≤ 2.5 cm with clear surgical margins ≥ 3 mm), age at diagnosis 50 years or more, unicentric or unifocal lesion, clear surgical margins (> 2 mm), node negative (including isolated tumour cells), and no use of primary systemic therapy and neoadjuvant chemotherapy

Molecular & genomic predictors

Multigene Expression Assay and Benefit of Radiotherapy After Breast Conservation in Ductal Carcinoma in Situ

Eileen Rakovitch, Sharon Nofech-Mozes, Wedad Hanna, Rinku Sutradhar, Frederick L. Baehner, Dave P. Miller, Cindy Fong, Sumei Gu, Alan Tuck, Sandip Sengupta, Leela Elavathil, Prashant A. Jani, Michel Bonin, Martin C. Chang, Elzbieta Slodkowska, Joseph M. Anderson, Diana B. Cherbavaz, Steven Shak, Lawrence Paszat

Molecular & genomic predictors



Molecular & genomic predictors

E4112 Schema & Eligibility

March 2015-Apr 2016

Inclusion

Women with core biopsy-proven unilateral DCIS within the past 4 months

No microinvasion

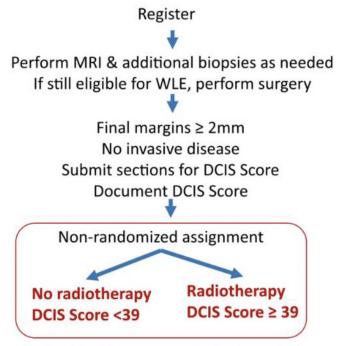
Breast conservation was feasible based on conventional imaging

Disease resectable in a single specimen

No prior history of invasive breast cancer or DCIS

No use of anti-estrogens in prior 3 months





Endocrine therapy per clinical standards

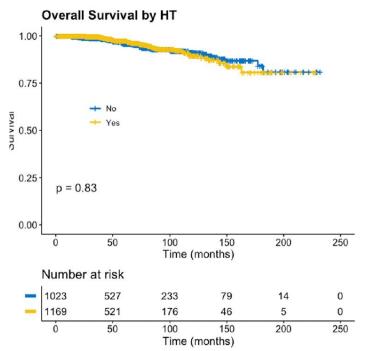
Molecular & genomic predictors

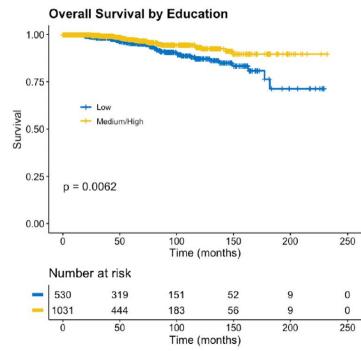
Conclusion

- DCIS Score identified ~50% as eligible for omission of radiation therapy following MRI and successful BCS.
 - Adherence to RT recommendations was 93% (159/171)
- Women with intermediate/high Score DCIS who received radiotherapy experienced an IBE rate that was approximately two-thirds lower than previously reported.
- When DCIS Score was low, 5-year IBE rate was ~5%, as in prior studies where RT omission was based on low-grade or low Score DCIS.
- Analysis of 10-year IBE outcomes from E4112 is planned, and larger prospective studies are under consideration.

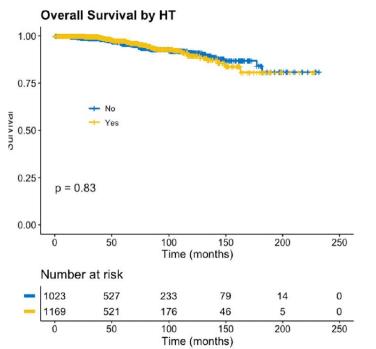


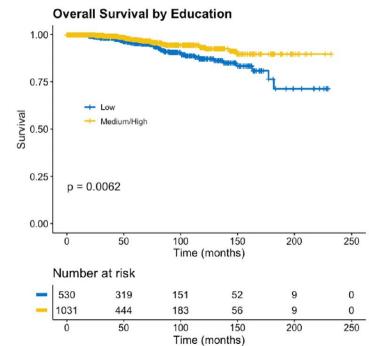
Value of endocrine therapy & SES





Value of endocrine therapy & SES





SES-effect also seen in Dutch population-based study
Schmitz R, et al IJC 2025.

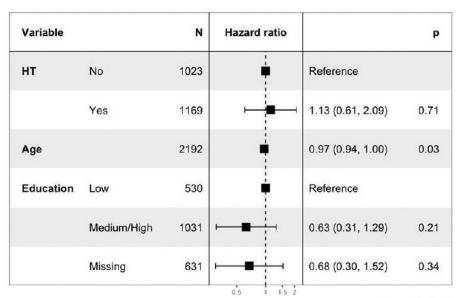
de Sousa CFPM, et al. Clin Breast Cancer. 2023;23:e499-e506.

Value of endocrine therapy & SES Multivariable analysis

Overall Survival

OS RFS

| Variable | | N | Hazard ratio | | р |
|-----------|-------------|------|--------------|-------------------|--------|
| нт | No | 1023 | ÷ | Reference | |
| | Yes | 1169 | - | 1.01 (0.67, 1.53) | 1.0 |
| Age | | 2192 | F | 1.07 (1.05, 1.09) | <0.001 |
| Education | Low | 530 | ÷ | Reference | |
| | Medium/High | 1031 | | 0.66 (0.40, 1.08) | 0.1 |
| | Missing | 631 | ⊢ | 0.95 (0.57, 1.58) | 0.8 |



Recurrence-free Survival

Omission of surgery

| Study | N | Age | Eligibility | Endocrine therapy |
|-----------------------|------|-----|----------------------------|-------------------|
| LORIS (RCT) | 932 | ≥48 | Low-risk on central review | No |
| COMET (RCT) | 1200 | ≥40 | G1 or 2, ER/PR+ | Optional |
| LORD (RCT → registry) | 1240 | ≥45 | G1 or 2 | No |
| LORETTA (registry) | 340 | ≥40 | G1 or 2, ER/PR+, ≤25mm | Tamoxifen |

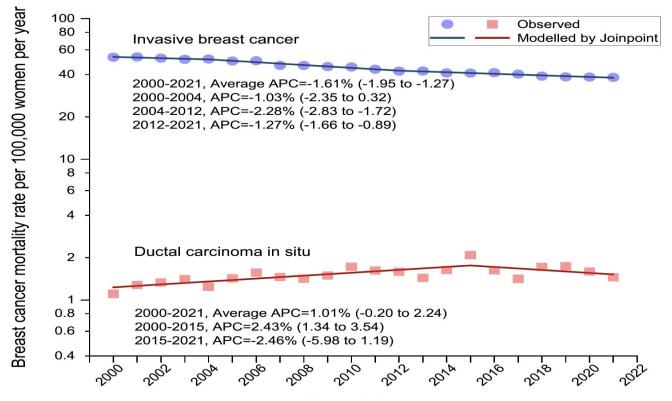
Hwang et al. J Clin Oncol 2020;38:2230-9.

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- ✓ Low breast cancer mortality after DCIS diagnosis
- ✓ Increased mortality after invasive local recurrence (LR)
- ✓ Principal goal of treatment of DCIS is prevention of invasive LR
- ✓ Changing surgical extend → jeopardising safety?

Trends in death rates from DCIS versus invasive BC in the United States



Year of death

Sung H, et al. Breast Cancer Research 2025;27:164.

Local treatments for DCIS

- ✓ No randomised comparison of mastectomy vs BCS/BCT
- ✓ Higher LR if no RT after BCS
- ✓ Observational cohort study (n=140,366) 15-year BC-mortality: BCT 1.7% vs BCS or mastectomy 2.3% (= significant)
- ✓ BCT or mastectomy both options for shared decision-making
- ✓ Mastectomy ± reconstruction if no adequate surgical margins or no good cosmetic outcome expected after conservative surgery

Radiation therapy for DCIS

- Challenging to apply study results in practice:
 - Low-risk characteristics not well-defined
 - ➤ LR increases with follow-up
- Shared decision-making on omission of RT after BCS:
 - Patient preference
 - Competing causes of mortality
 - Side effects of RT

Radiation therapy for DCIS spares breasts

The Breast 37 (2018) 179-180



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The Breast

journal homepage: www.elsevier.com/brst



Editorial

Radiation therapy after breast conserving surgery increases long-term breast conservation for DCIS patients



Orit Kaidar-Person¹

Oncology Institute, Radiation Oncology Unit, Rambam Medical Center, Haifa, Israel

Icro Meattini¹

Oncology Unit, Oncology Department, Azienda Ospedaliero-Universitaria Careggi, University of Florence, Florence, Italy

Philip Poortmans*

Department of Radiation Oncology, Institut Curie, Paris, France

Endocrine therapy for DCIS

Lack of consensus on adjuvant endocrine therapy for DCIS...

... but seems to add little more than "chemoprevention" of CL BC!

Omission of surgery for low-risk DCIS

- ✓ Increased early detection
- ✓ Increasing controversy on over-diagnosis and over-treatment of DCIS
- ✓ Invasive progression highly variable

Prognostic & predictive factors for DCIS

- ✓ Molecular profiling complemented by clinical-pathologic markers have potential to improve precision of LR risk prediction
- ✓ Cost-effectiveness to guide RT omission has not been shown from population perspective
- ✓ Prospective studies of molecular profiling on tumour control and decision impact in progress





DCISionRT Efficacy in Counselling Intervention for

Ductal Carcinoma in-situ adjuvant External-beam

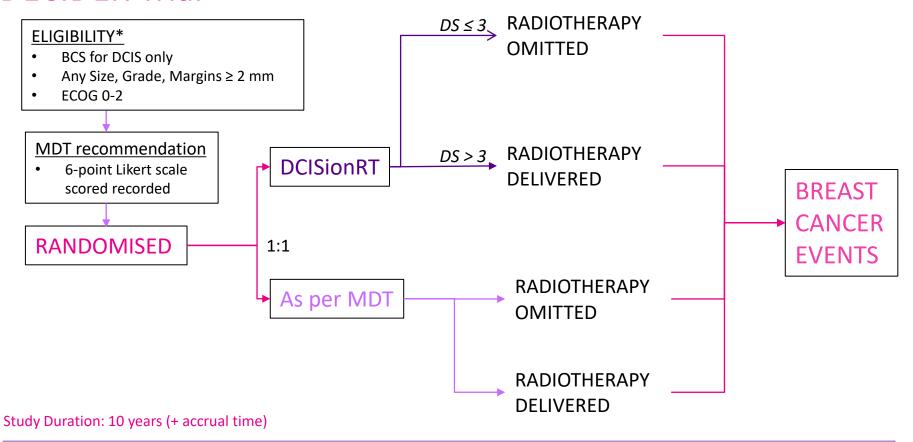
Radiotherapy

Dr Adam Ofri BMed MS FRACS

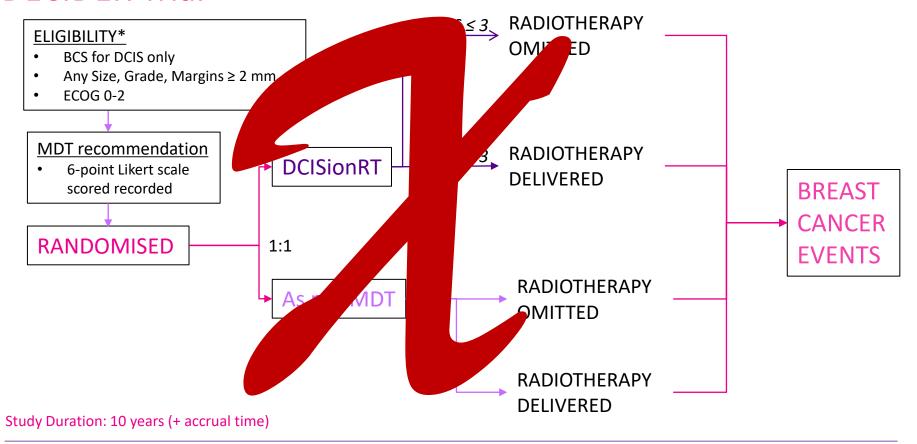
Trials Save Lives

Breastcancertrials.org.au

DECIDER Trial



DECIDER Trial



Radiation therapy for DCIS

- Introduction
- Evidence from the past
- Recent additions
- Discussion
- Conclusions

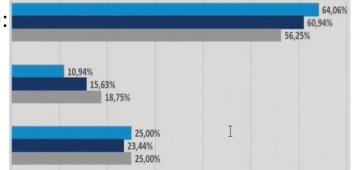


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The preferred radiation schedule for (see below) is:

- ✓ Moderate hypofractionation (15-16 fractions/3 weeks):
- ✓ Ultra-hypofractionation (5 fractions/1 week):
- ✓ Abstain:



Chest wall RT, irrespective of RNI, after mastectomy

WBI, irrespective of RNI, after BCS

WBI after BCS for DCIS



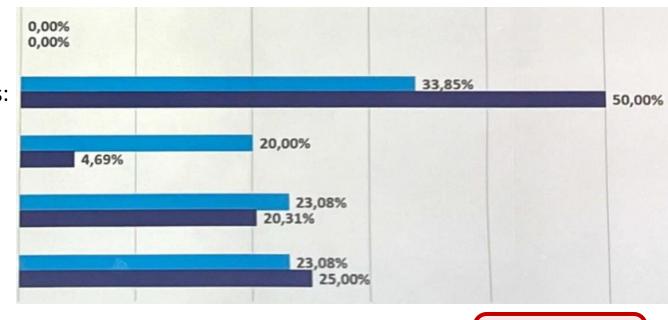
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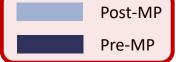
st galleroncology

The preferred RT plan and schedule for lower-risk DCIS after breast conserving surgery:



- ✓ WBI in 15-16 fractions:
- ✓ PBI in 5 fractions:
- ✓ Any of those
- ✓ Abstain



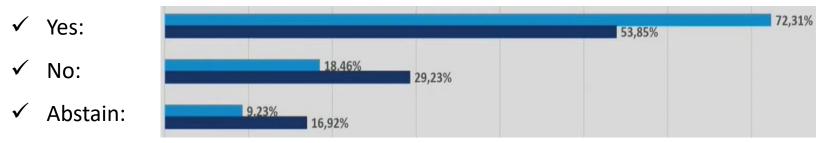




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A healthy woman has undergone BCS for DCIS. The DCIS is grade 1 to 2, without comedonecrosis, and spans less than 2 cm. Should she receive radiation therapy?:



If the same patient will take endocrine therapy for ER+ DCIS, would you recommend RT:



Pre-MP
Post-MP



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Consider patients after BCS for DCIS, with margins > 2 mm. Which require RT:

Indicators:

✓ Age (years):

<50

51-70

>70

✓ Tumour size (cm):

>2cm

≤2cm

✓ Comedonecrosis:

yes

no

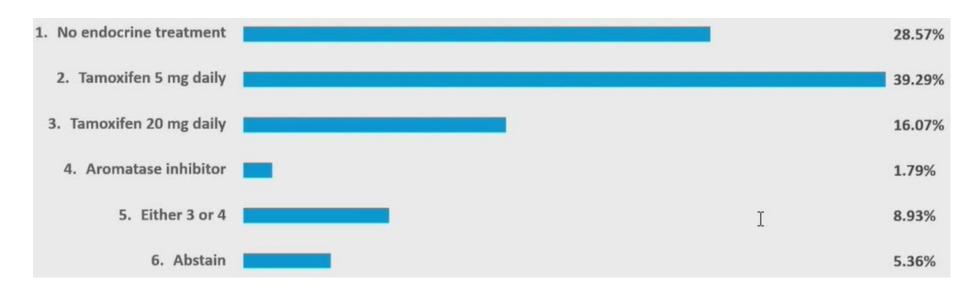
Range of "yes varies between 18% and 98%

Age = strongest driver with cut-off of 50 years

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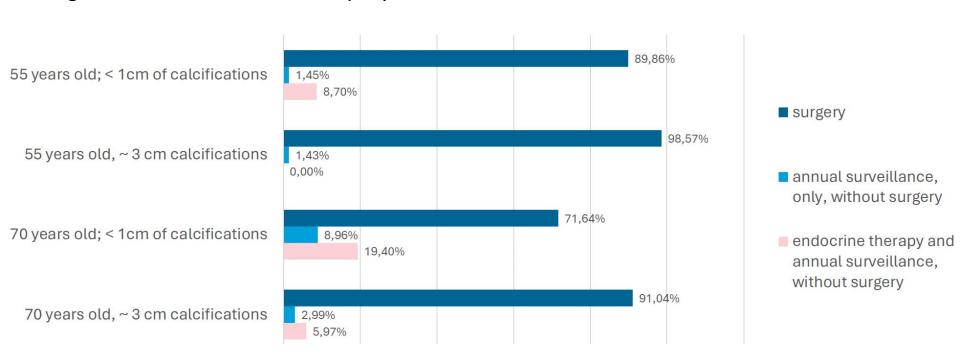
Consider post-MP DCIS patients after BCS+RT, with concerns about IBTR & QoL: which ET?





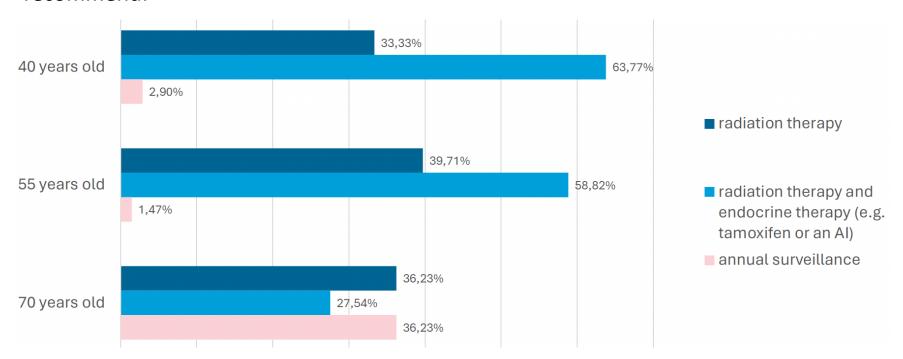
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Woman with calcifications on screening mammography. Core biopsy: DCIS, grade 2, ER+, MRI negative. As next treatment steps, you would recommend:



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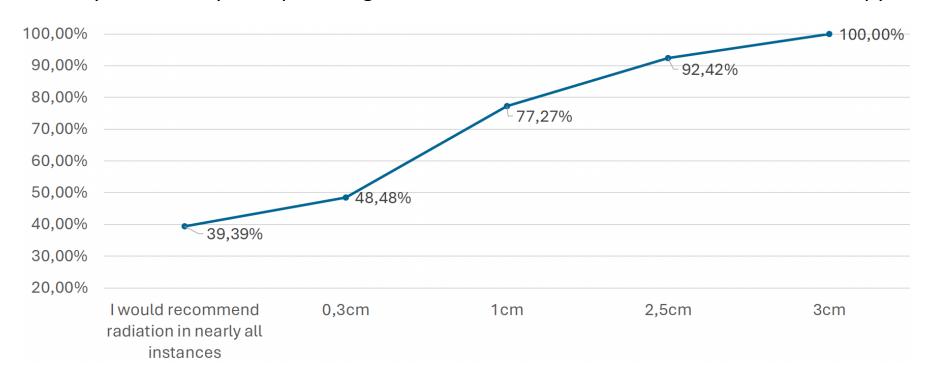
Woman after BCS for DCIS, grade 2, measuring 1-2 cm, ER+. As next treatment you would recommend:





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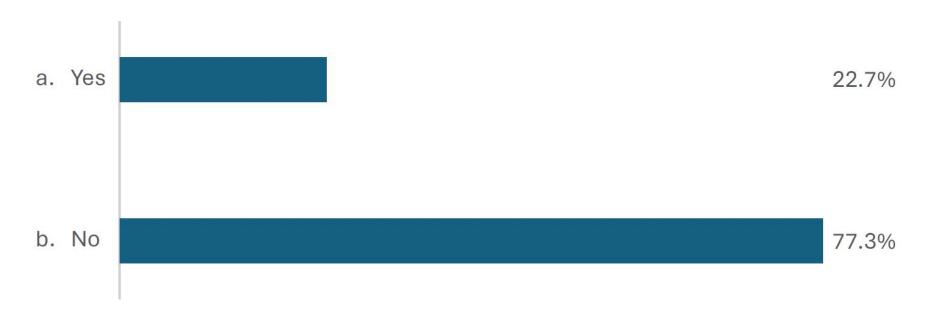
Healthy, non-elderly DCIS patient, grade 2, ER+, DCIS size threshold for radiation therapy:



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Should we endorse genomic signatures for DCIS Management?



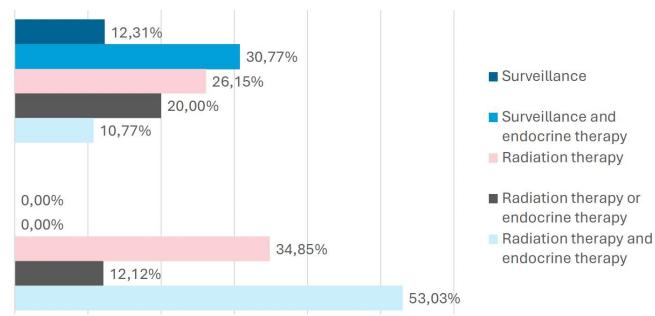


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55 year woman after BCS for DCIS, grade 2, measuring 1-2 cm. As additional treatment, you would recommend:



A genomic signature test for DCIS suggests 'high risk.'



Radiation therapy for DCIS: Acknowledgements

Too many to list...

... risking forgetting people...

Orit Kaidar-Person · Icro Meattini · Philip Poortmans Editors Breast Cancer Radiation Therapy A Practical Guide for Technical Applications

The book provides, in a comprehensive yet concise way, essential information to improve the knowledge and skills of all healthcare providers involved in the treatment of patients with breast cancer. The content does not focus on general information that is widely available via different sources, but not technical aspects. – "hands-on" daily practices and principles of radiation oncology that are not included in other books. Drawing on information taught in courses at e.g. the ESTRO School, as well as the authors' broad clinical experience, the respective contributions reflect and share the expertise of leading experts in breast cancer radiation therapy, supported by sound data and evidence. Each chapter includes a short introduction summarizing the evidence in the literature and "pearls" (as hort bullet-point summary), and is enriched by tables, figures and illustrations to provide a concise, easy-to-follow and appealing overview.

The book, containing also useful electronic supplementary material, will be of interest to a wide range of readers, including radiation oncologists, radiation technicians, medical physicists, and others involved in breast cancer care.

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Breast Cancer Radiation Therapy



Breast Cancer Radiation Therapy

A Practical Guide for Technical Applications

Orit Kaidar-Person Icro Meattini Philip Poortmans *Editors*



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