



Titolo ed autore:

Il trattamento chirurgico del tumore primitivo in stadio IV d'esordio

Unit of Investigative Clinical
Oncology
Istituto di Candiolo (IRCCS)



Il punto di vista dell'oncologo”

- Differently from locoregional disease, surgery of the primary tumor is not a priority in patients with stage IV disease

“As in previous studies, a surprisingly large number of women who present with metastatic breast cancer and an intact primary tumor underwent definitive local therapy”
Bafford et al, Breast Cancer Res Treat 2009; 115, 7



Impact of increased sensitivity of imaging modalities

- An estimated 15-20% of patients initially diagnosed with operable disease are found to have metastatic disease if PET is systematically used (mostly patients with intermediate or high-risk breast cancer)

Rush-Port, Ann Surg Oncol;13:677, 2006
Klaeser, Ann Oncol;18:1329, 2007



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Is “De Novo st. IV prognostically worse than recurring stage IV?”

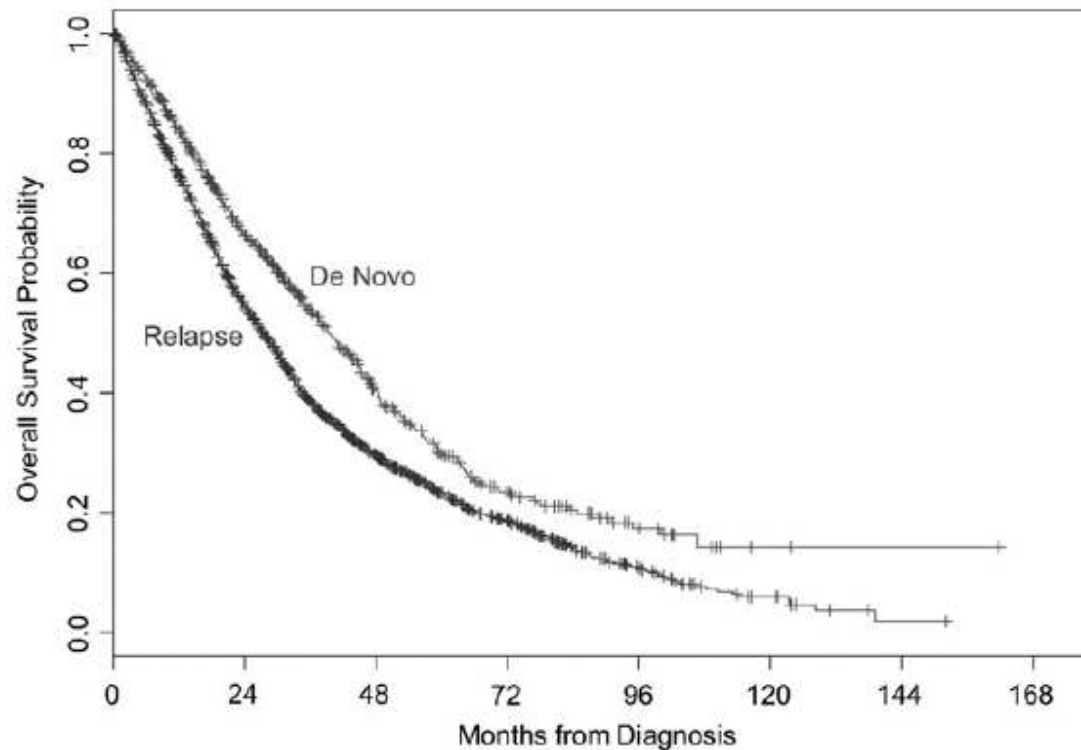
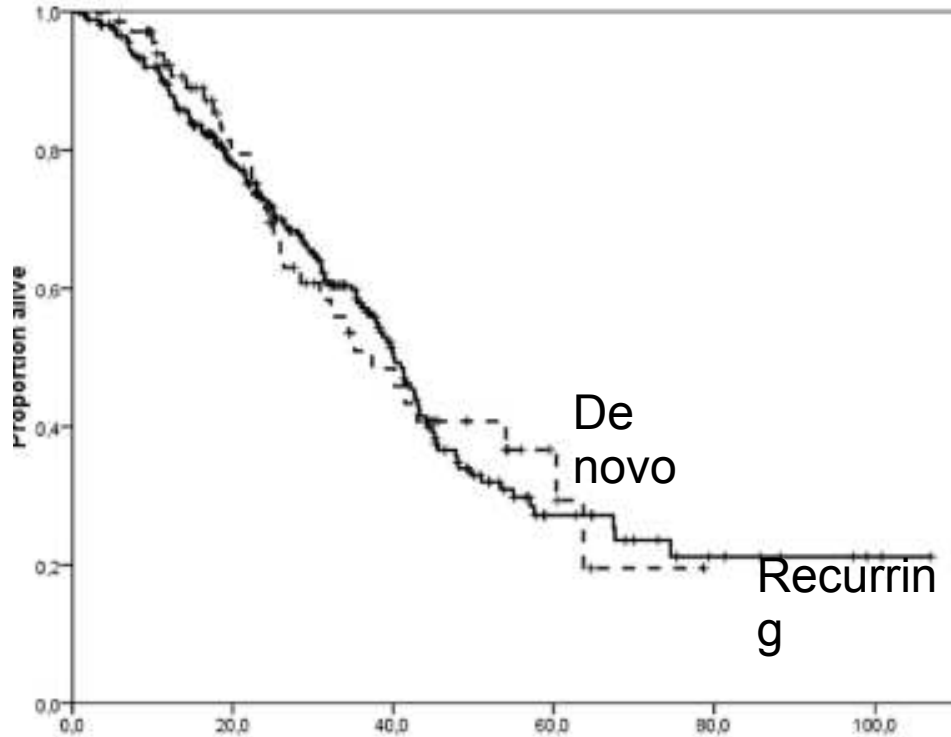
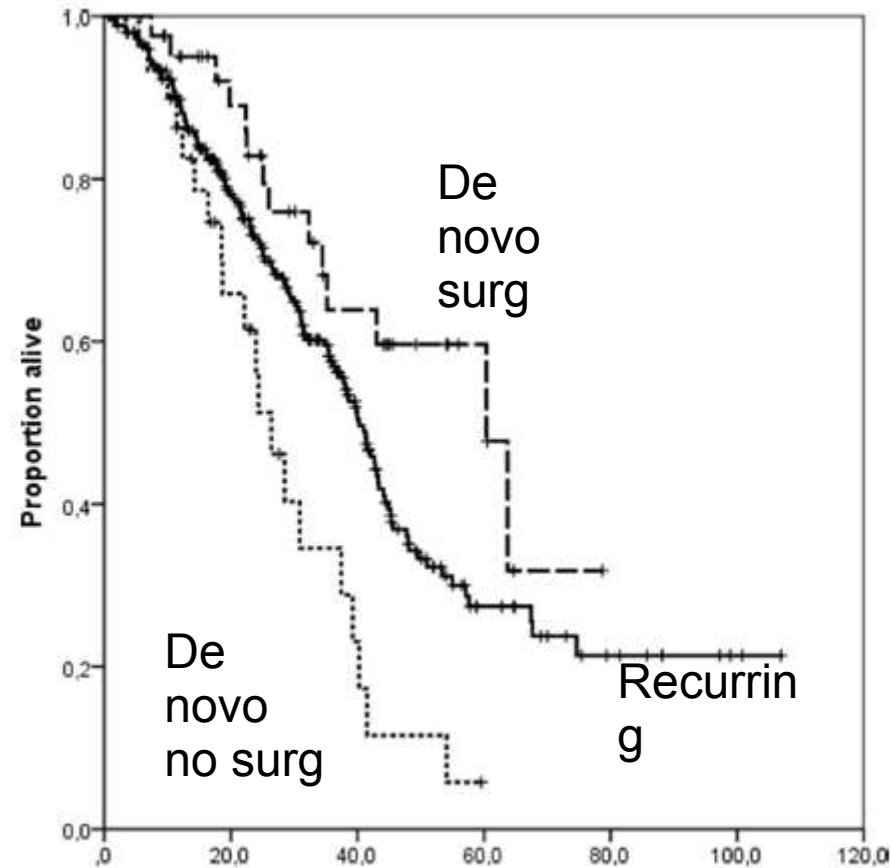


Figure 1. Kaplan–Meier curves illustrating overall survival for patients with *de novo* stage IV versus relapsed disease.

What about HER2 positive patients?



Overall survival



Overall survival

V. Rossi et al. / *The Breast* 23 (2014) 44e49

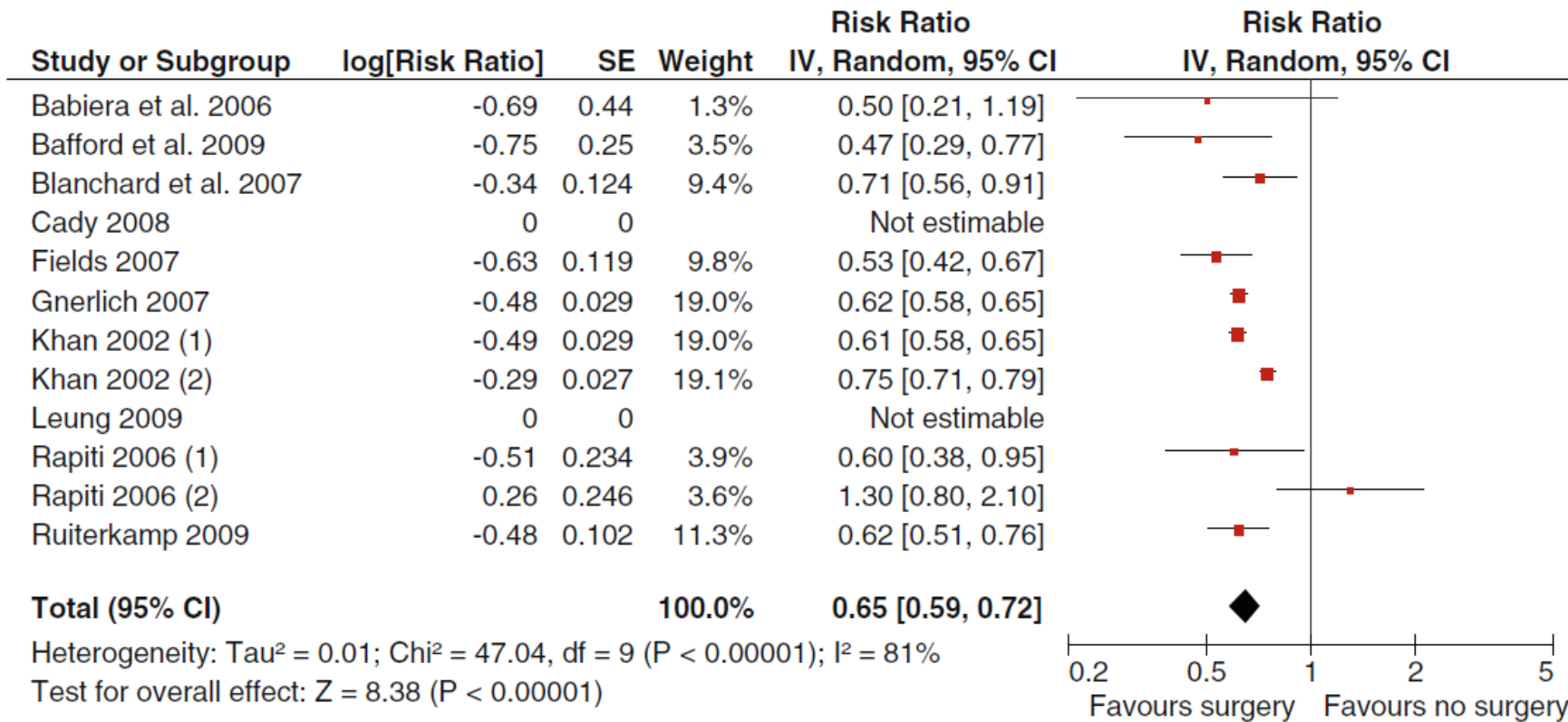


Impact of locoregional treatment in patients with stage IV disease:

Authors	Number of patients in study	Period of diagnosis	Setting	Primary surgery:	Median overall survival (months)	P value, surgery versus no surgery (log-rank test)
Bafford et al. [14]	147	1998–2005	Hospital-based	Yes: 61 No: 86	42 28	0.093 *
Ruiterkamp et al. [13]	728	1993–2004	Population-based	Yes: 288 No: 440	31 14	<0.0001
Leung et al. [15]	157	1990–2000	Hospital-based	Yes: 52 No: 105	25 13	0.06 0.004
Cady et al. [16]	622	1970–2002	Hospital-based	Yes: 234 No: 388	33 18	<0.0001 *
Blanchard et al. [12]	395	1973–1991	Other	Yes: 242 No: 153	27.1 16.8	<0.0001
Fields et al. [11]	409	1996–2005	Hospital-based	Yes: 187 No: 222	26.8 12.6	<0.0001
Gnerlich et al. [10]	9734	1988–2003	Population-based	Yes: 4578 No: 5156	36 and 18 2 and 7	<0.001 (36 vs. 21) <0.001 (18 vs. 7)
Rapiti et al. [9]	300	1977–1996	Population-based	Yes, unknown margins: 33 Yes, positive margins: 33 Yes, negative margins: 61 No: 173	12% 16% 27% 12%	0.0002
Babiera et al. [8]	224	1997–2002	Hospital-based	Yes, partial mastectomy: 39 Yes, total mastectomy: 43 No: 142	32.1 (whole group)	0.091
Khan et al. [7]	16023	1990–1993	Population-based	Yes, partial mastectomy: 3513 Yes, total mastectomy: 5649 No: 6861	26.9 31.9 19.3	<0.0001



Pooled analysis of retrospective studies



Overall survival: significant covariates

Author	HR	Significant Covariates
Bafford, 2009	0.47*	Liver metastasis, CNS metastasis, ER, HER2
Ruiterkamp, 2009	0.62*	Age, number of metastatic sites, systemic treatment
Leung, 2009	N.S.	Chemotherapy
Blanchard, 2007	0.71*	Number of metastatic sites, ER and PgR status
Fields, 2007	0.53	Visceral metastases, bone metastases
Rapiti, 2006	0.6* 1.3	Age, N status, visceral metastasis, CNS metastasis, hormonal treatment, margin status
Barbiera, 2006	0.50*	Number of metastatic sites, HER2 status
Khan, 2002	0.61 0.75*	Number of metastatic sites, soft-tissue metastasis (vs visceral), chemotherapy, hormonal therapy, surgical margins

Clinical data regarding locoregional treatment in stage IV breast cancer

- Possible sources of bias



Survival of untreated breast cancer

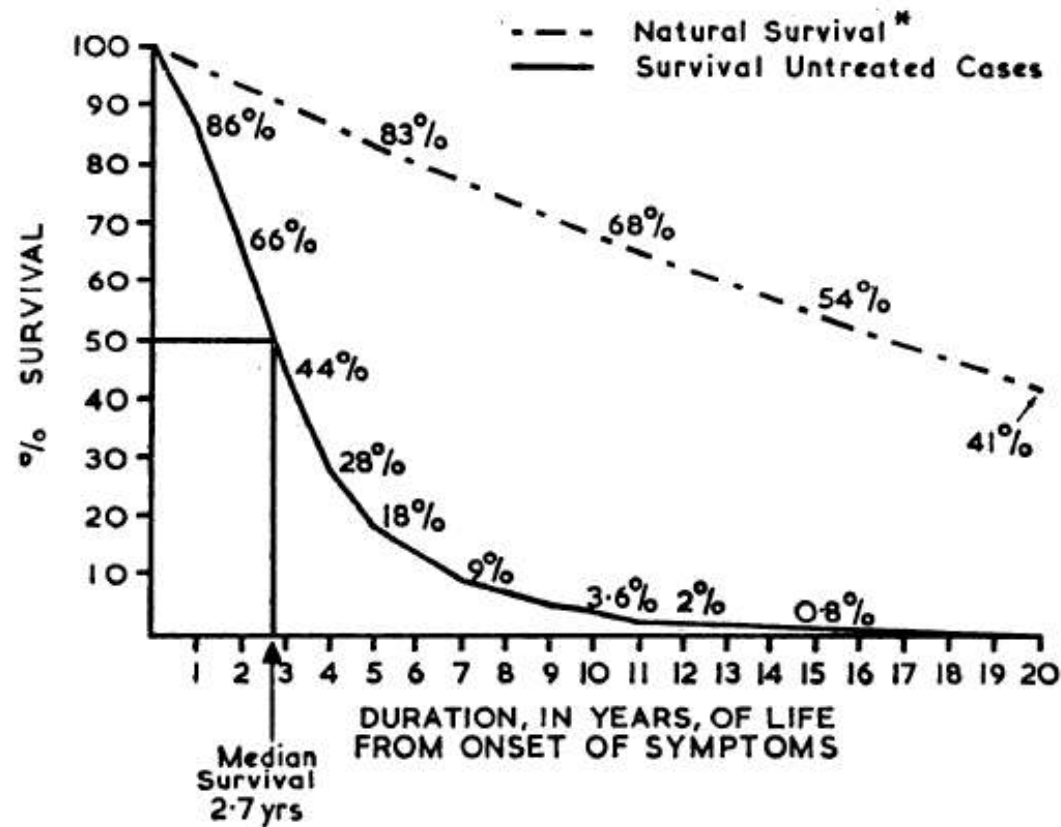


FIG. 1.—Survival of untreated breast cancer. Middlesex Hospital, 1805-1933 (250 cases). *See Appendix.

Impact of patient selection on clinical outcomes

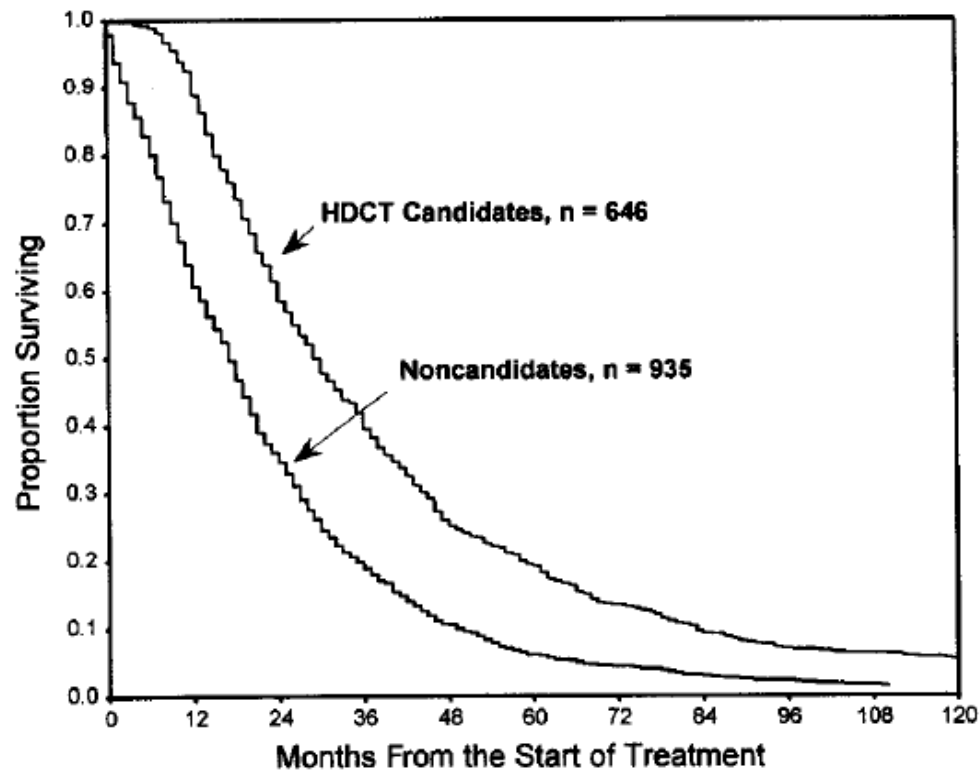
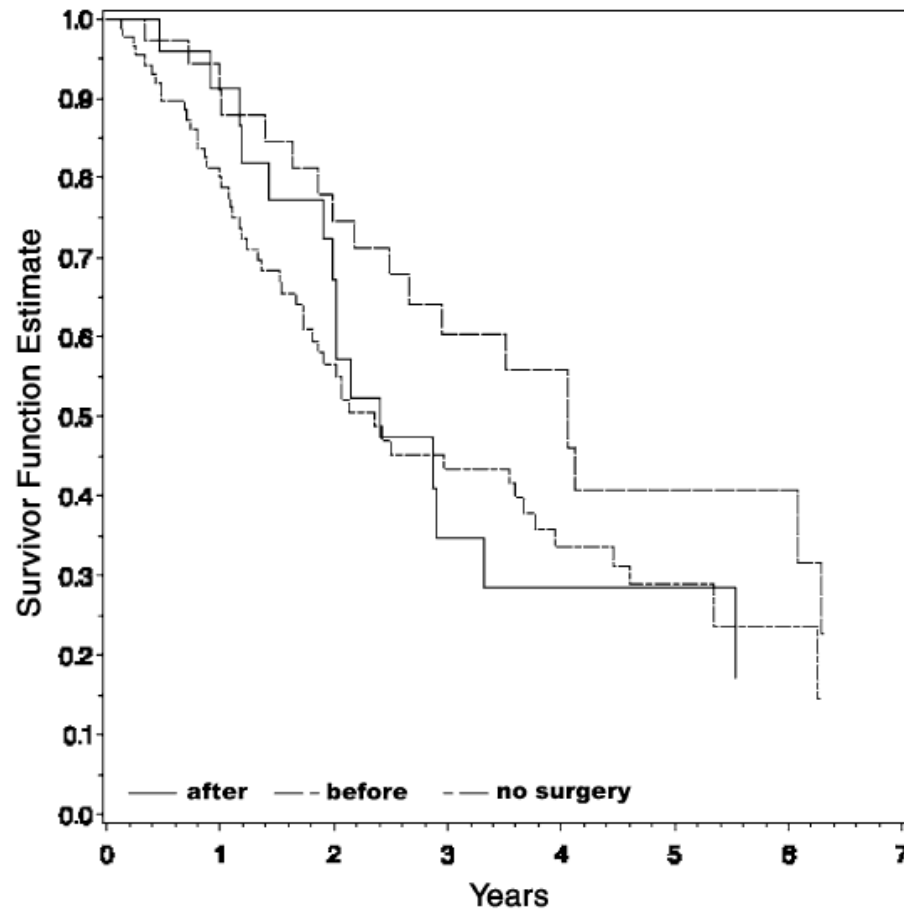


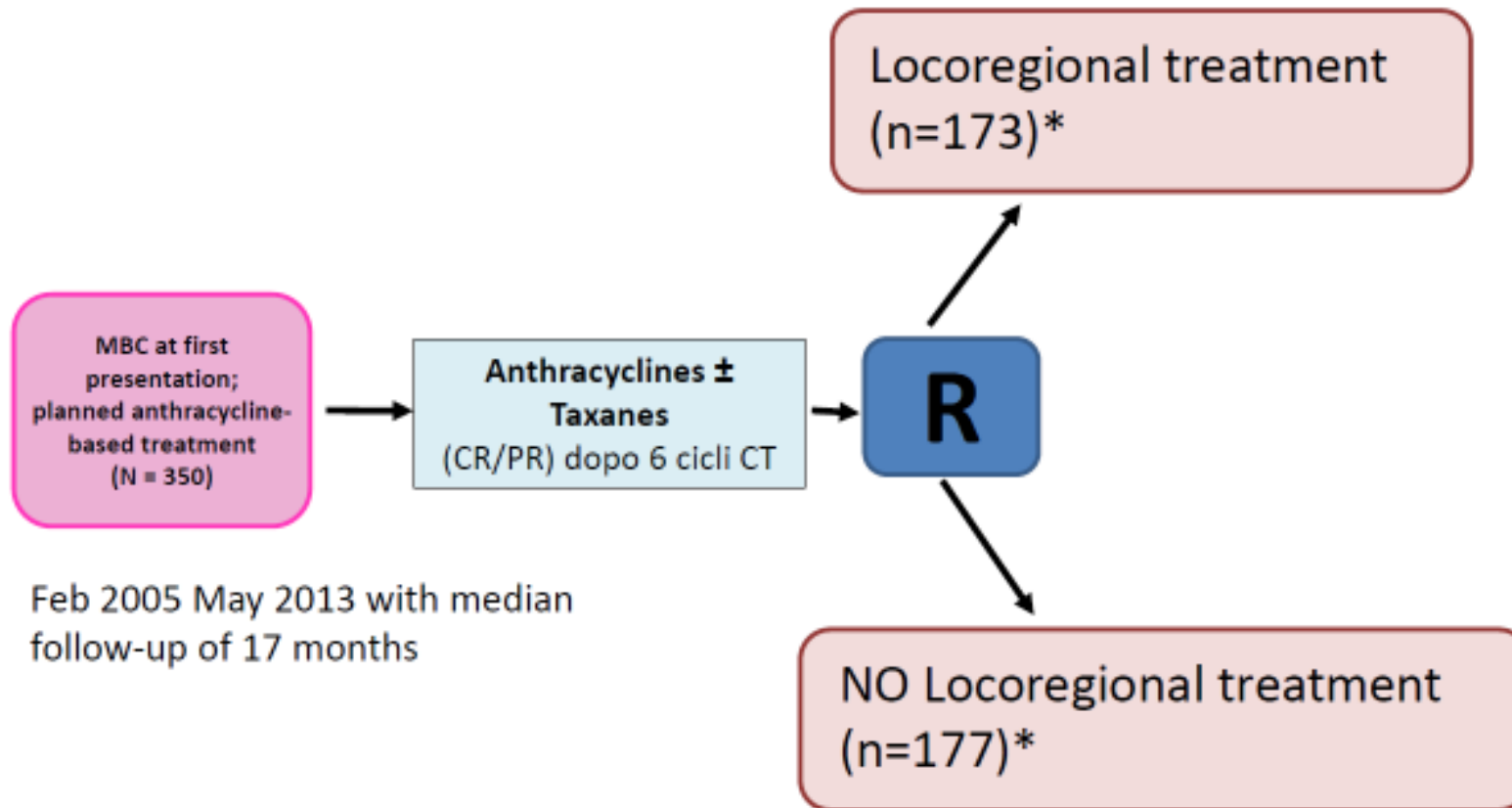
Fig 2. OS rates in the potential HDCT candidates and noncandidates. All patients were treated on the same doxorubicin-containing standard-dose chemotherapy protocols in a single institution. The median follow-up is greater than 14 years.

Rahman et al, J Clin Oncol 15:3171, 1997

Surgery before or after the diagnosis of synchronous metastases: stage migration



Randomized trial



Badwe et al Lancet Oncol 2015; 16: 1380–88

Surgical outcomes

	Locoregional treatment group (n=173)	No locoregional treatment (n=177)
Surgery		
Modified radical mastectomy	125 (72%)	1 (1%)
Breast-conserving surgery	40 (23%)	NA
No surgery	8 (5%)	176 (99%)
Palliative surgery upon progression	1 (1%)	18 (10%)
Radiotherapy		
Chest wall and breast with supraclavicular fossa	119 (69%)	NA
Chest wall alone	19 (11%)	NA
No radiotherapy	8 (5%)	NA
Not known	27 (16%)	..

NA=not done.

Table 4: Details of locoregional treatment

Overall survival

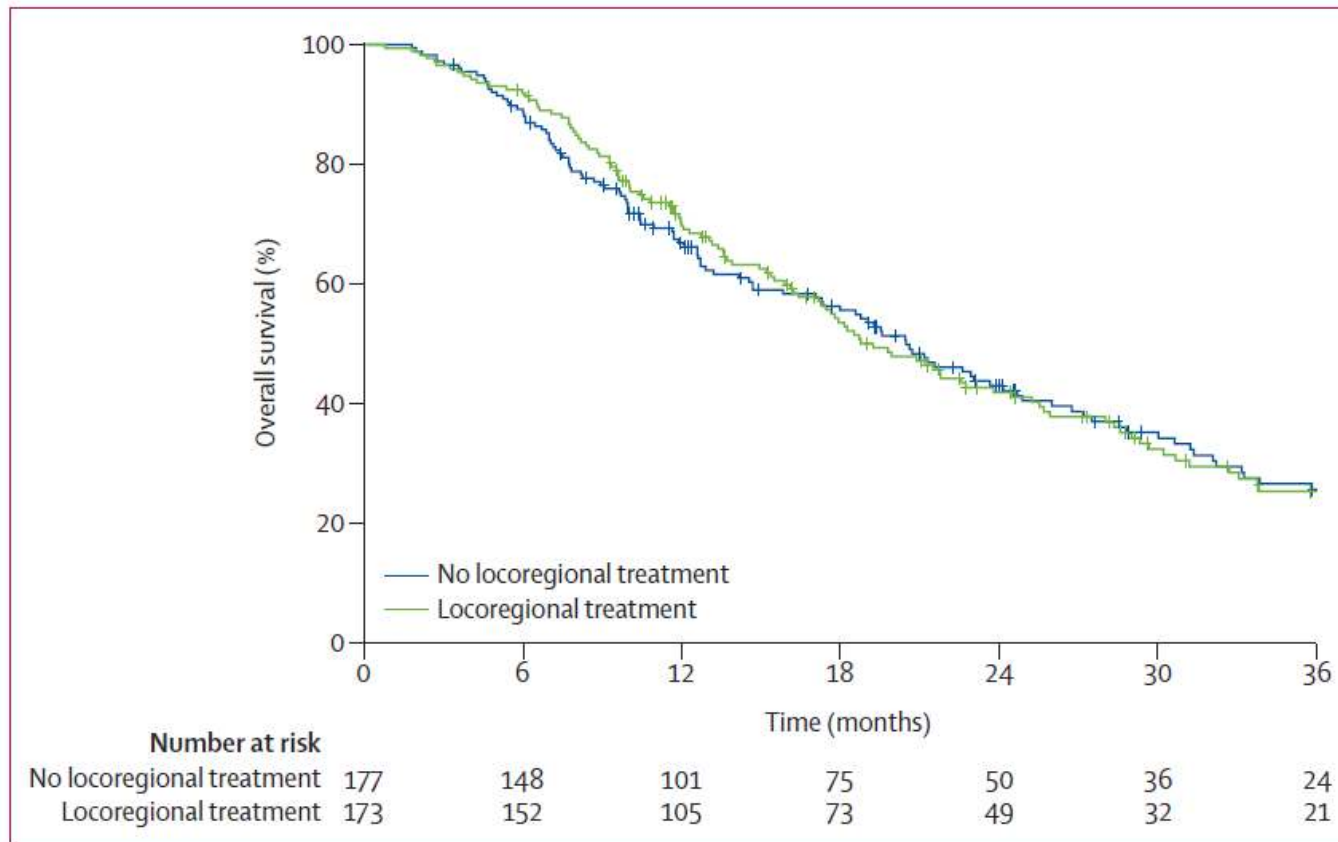
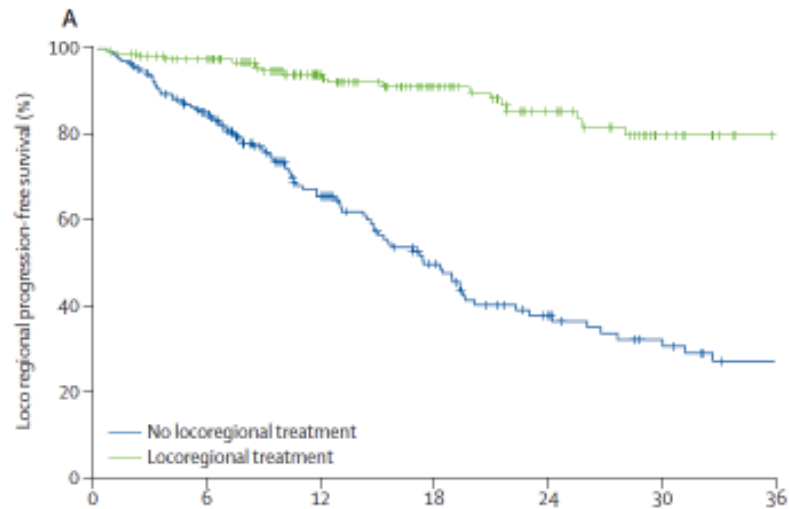


Figure 2: Kaplan-Meier plot of overall survival



Other outcomes

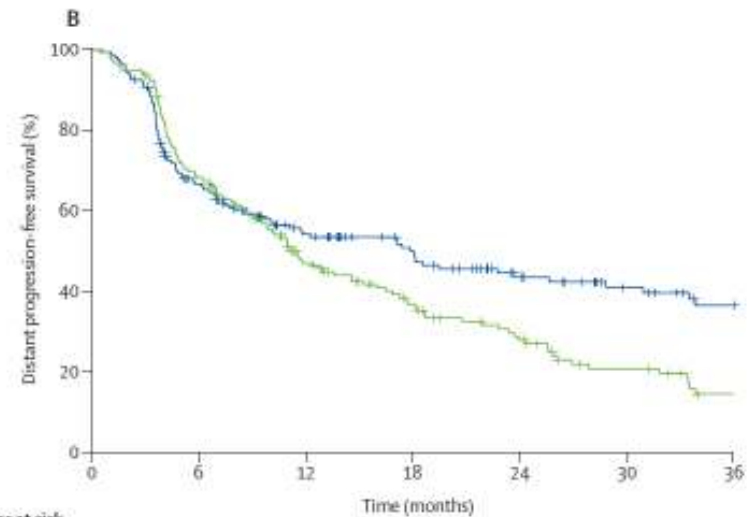
Locoregional
PFS



Number at risk

	0	6	12	18	24	30	36
No locoregional treatment	177	123	75	46	28	20	13
Locoregional treatment	173	134	91	65	45	28	20

Distant
DFS

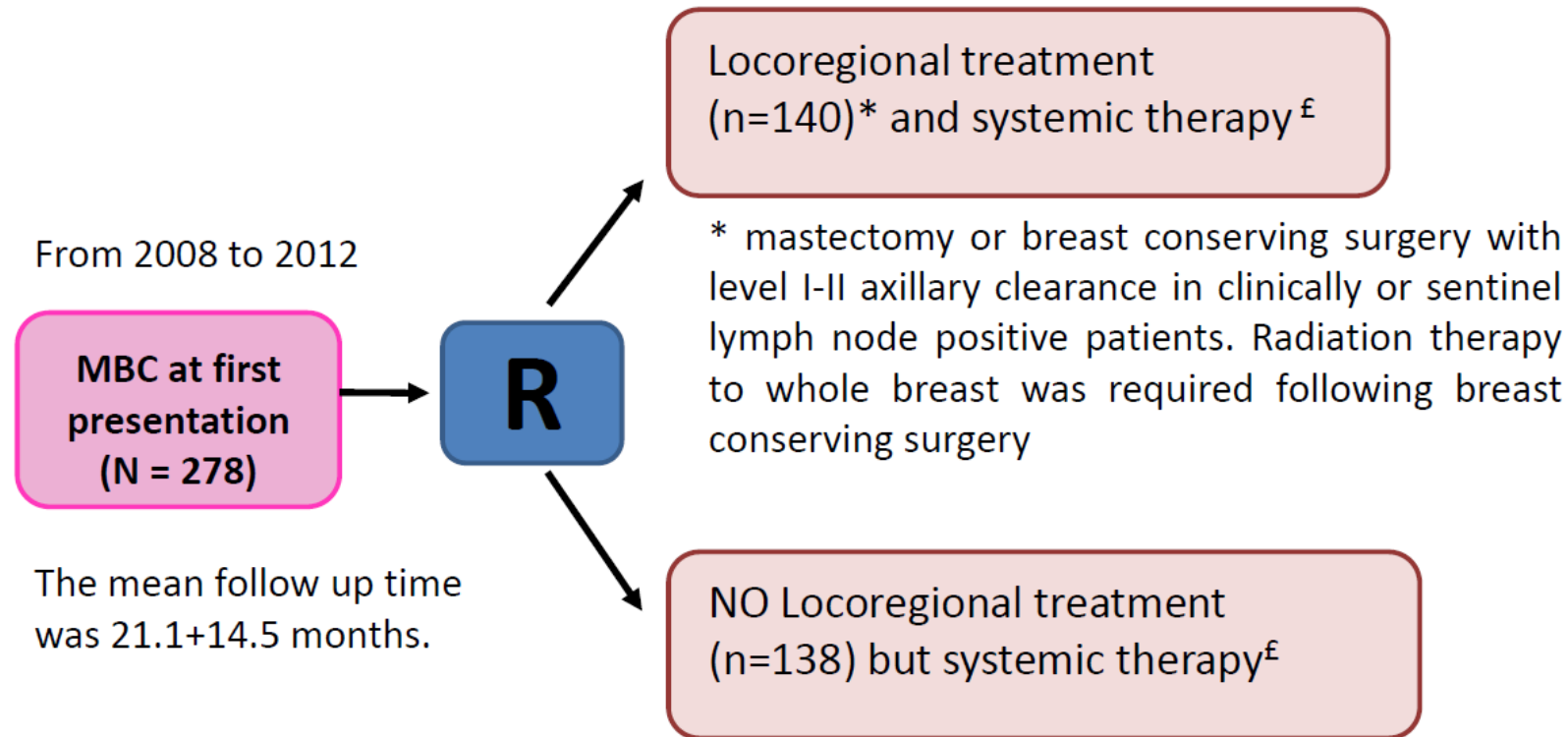


Number at risk

	0	6	12	18	24	30	36
No locoregional treatment	177	103	74	53	38	27	17
Locoregional treatment	173	108	66	44	26	18	12



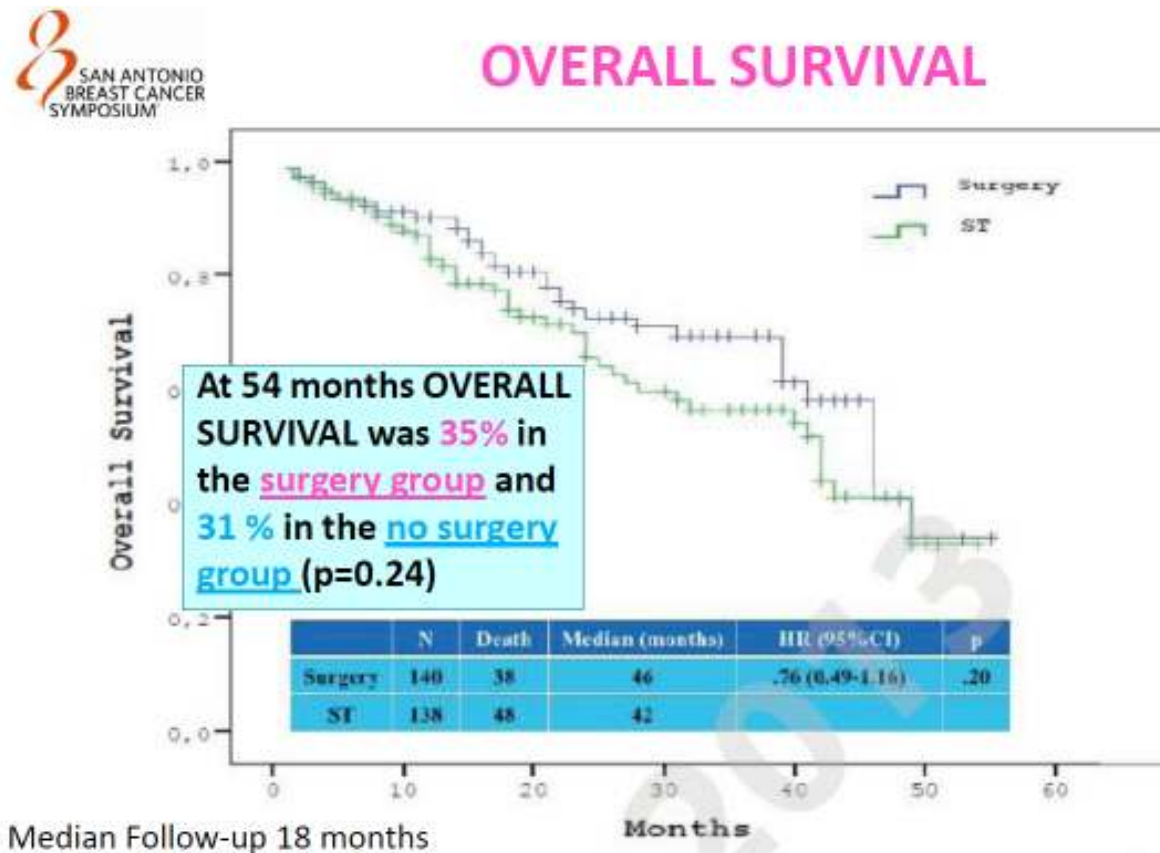
Turkish Study



[£] systemic therapy of either endocrine treatment or chemotherapy (plus trastuzumab for HER2 +) was given to all patients



No overall advantage, but...



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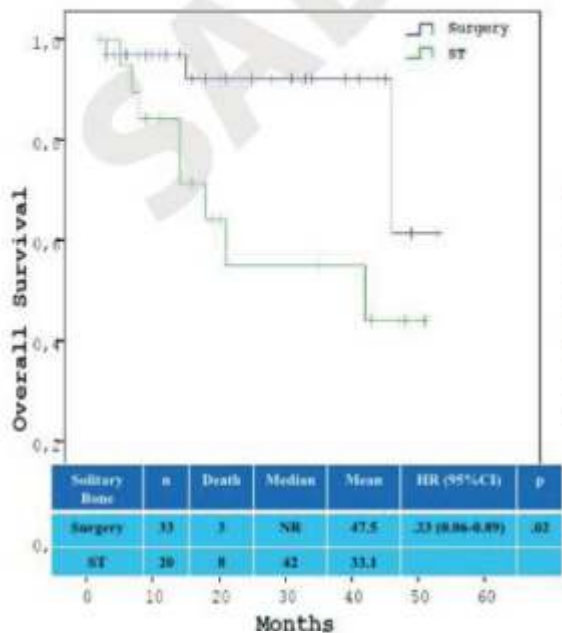


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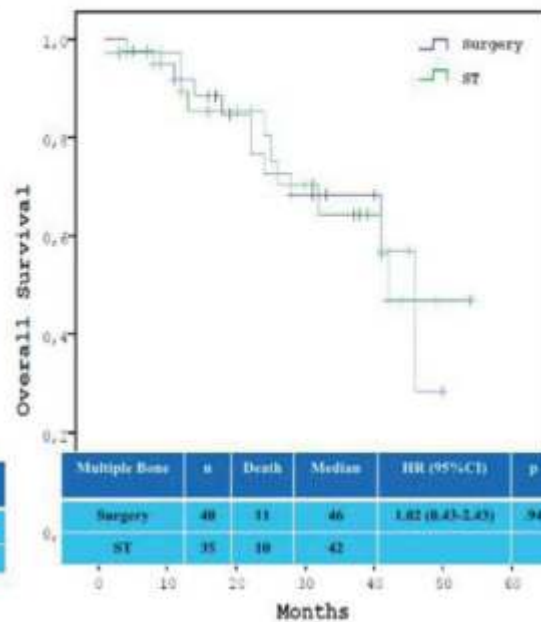
Possible advantage of surgery in women with solitary bone metastases



Solitary Bone Met.



Multiple bone Met.



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Chirurgia elettiva del tumore primario

- C'è necessità di una raccomandazione del Gruppo di Studio sul Carcinoma della mammella?

