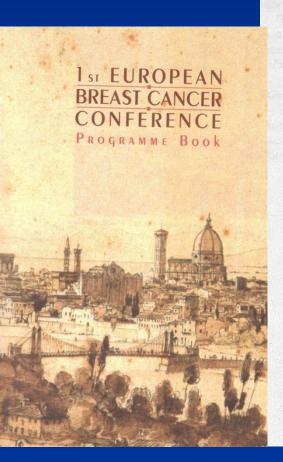
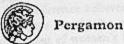
LIMITATIONS OF GUIDELINES IN DEVELOPED COUNTRIES

Prof Robert Mansel Emeritus Professor Cardiff University, UK President EUSOMA

THE FIRST MOVES 1999





PII: S0959-8049(98)00384-0

Position Paper

Florence Statement on Breast Cancer, 1998 Forging the Way Ahead for More Research on and Better Care in Breast Cancer

L. Cataliotti,¹ A. Costa,² P.A. Daly,³ L. Fallowfield,⁴ G. Freilich,⁵ L. Holmberg,⁶ M. Piccart,⁷ C.J.H. van de Velde⁸ and U. Veronesi²

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DEFINITIONS

- What is a breast centre/unit/clinic
- Who should be working in it
- What standards are required
- How can performance be measured
- Can quality indicators be applied to all breast centres

EUSOMA DEFINITION 2000

"The requirements of a specialist breast unit"



European Journal of Cancer 36 (2000) 2288-2293

European Journal of Cancer

www.ejconline.com

Position Paper

The requirements of a specialist breast unit

EUSOMA

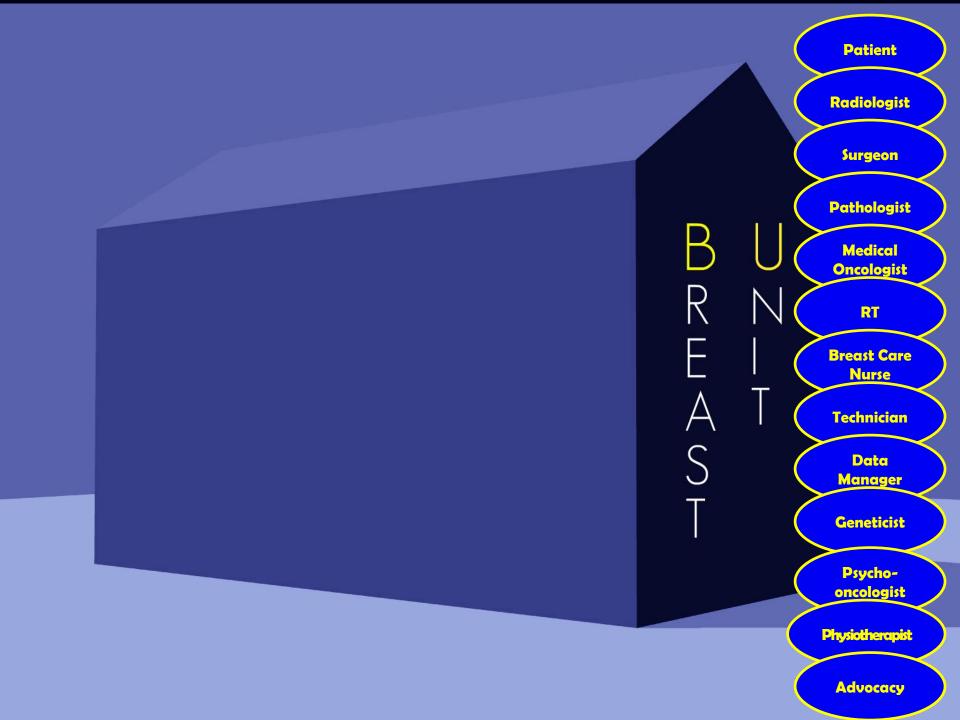
EUSOMA Secretariat, Viale B. d'Este 37, 20122 Milan, Italy

Received 24 February 2000; accepted 25 May 2000

EUSOMA DEFINITION

- A single integrated Unit
- Sufficient cases to allow effective working and continuing expertise (150 minimum cases)
- Care by breast specialists in all the required disciplines working in multidisciplinary fashion in all areas
- Providing all the services necessary from genetics and prevention, through the treatment of the primary tumour, to care of advanced disease and palliation.
- Patient support
- Data collection and Audit

Controversial element - raises a challenge for small units and the private medical sector «office based practice»



What is the evidence for volume and MDT?

- No direct body of evidence for volume in breast cancer- better evidence for complex GI and Cardiac surgery
- Larger volume means specialisation and more complex cases
- MDT is linked with volume as small volume and MDT is not time or cost efficient.

WHAT IS THE EVIDENCE FOR MDT?

No direct RCT evidence

Population comparisons in Scotland

Hospital volume in Belgium

Proxy of QA in sentinel node studies

RECENT STUDY ON SPECIALIST CARE- Scotland

- 13,722 women with breast cancer
- 1 health Board with specialist care compared with general hospital care
- After introduction of specialist care and MDT in 1995 specific breast cancer mortality fell by 18%
- This study used contemporaneous controls not historical comparisons

Kesson et al BMJ May 2012

HOSPITAL VOLUME IN BELGIUM

- Cancer registry study using 11 process quality indicators
- 25,000 BC pts between 2004-6
- Hospitals graded v.low (<50), low (50-99), med (100-149) and high (≥150)
- 5 year survivals were75%,79%,80%,83%
- Hazard Ratio for death was 1.42 in very
 low.
 Vrijens et al Breast 2012,21:261

SURGICAL VOLUME

SURGICAL VOLUME INDEX

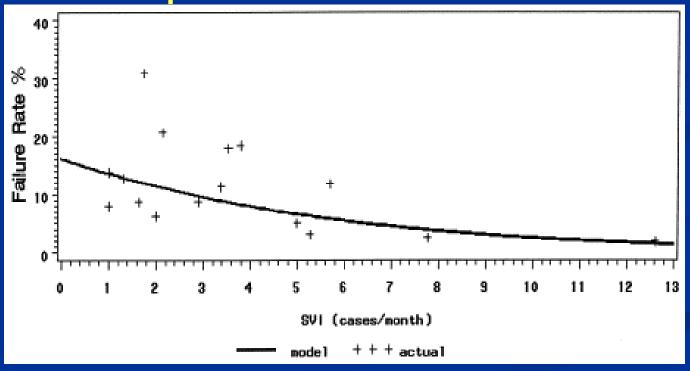
SLN IDENTIFICATION RATE

3-6 cases per month

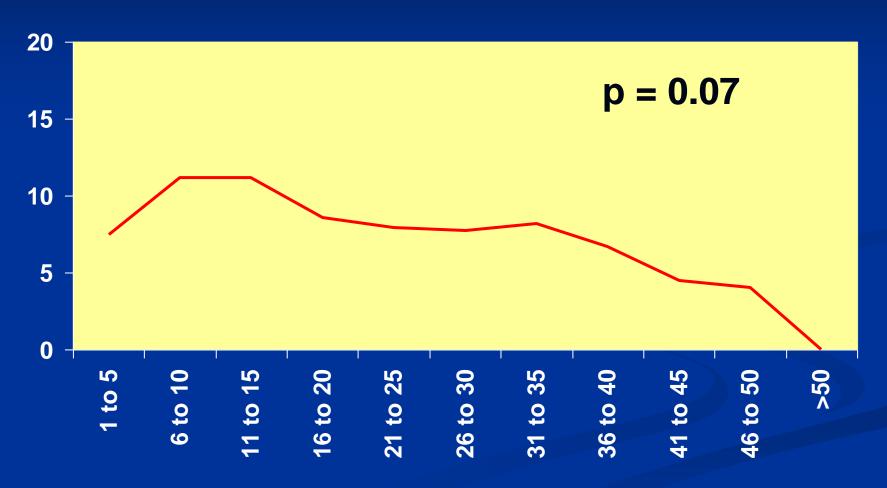
>85%

>6 cases per month

>95%



False Negative Rates by Surgeon Case Number



Overall false negative rate 8.9%

UK SCREENING PROGRAMME PREOPERATIVE DIAGNOSIS 1996-02 (Guidelines improve quality)

y 72/0 SIIICC 1//O///1.

6 YEAR COMPARISON: PRE-OPERATIVE DIAGNOSIS RATES

Total	Number of cancers	pre	Pre- operative			
cancers	with C5 and/or B5	C5 only	C5 and B5	C5 (+/- B5)	B5 only (no C5)	diagnosis rate (%)
7310	4576	-	-	45	17	63
8215	5866	-	-	42	29	71
8002	6449	-	ı	36	44	81
8906	7590	-	-	31	54	85
10079	8775	19	8	-	60	87
10191	9043	13	9	-	66	89

1996

1999

2002

from Scotland are absent in 1998/99 and 1999/00

WHY DO WE NEED GUIDELINES?

- They bring best evidence into practice faster
- They standardise procedures ? More cost effective
- They reduce chance of poor practice due to peer review of each case

ALMANAC randomised trial **Axillary operating time**

	Standard axillary surgery	SLNB		
High caseload	17 mins (19.0, 2-221)	15 mins (17.2, 2-135)		
Low caseload	25 mins (12.7, 6-70)	20 mins (19.9, 5-113)		

Median axillary operating time (SD, range)

ALMANAC randomised trial Return to daily activities

	Standard axillary surgery	SLNB		
High caseload	79.0%	82.3%		
Low caseload	62.6%	70.5%		
p-value	<0.001	<0.001		

Percentage of patients returning to normal daily activities at 1 month

ALMANAC randomised trial Return to normal paid work

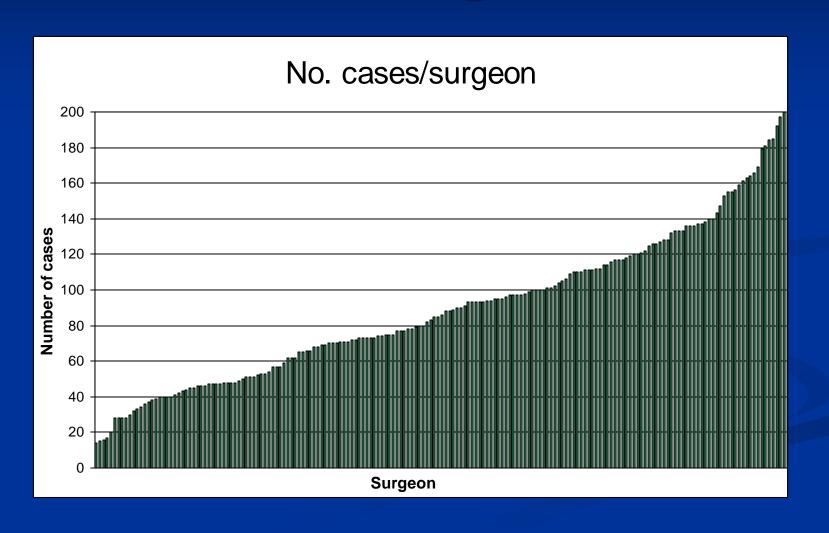
	Standard axillary surgery	SLNB
High caseload	58.6%	62.7%
Low caseload	25.8%	24.2%
P-value	<0.001	<0.001

Percentage of patients returning to normal paid work at 3 months

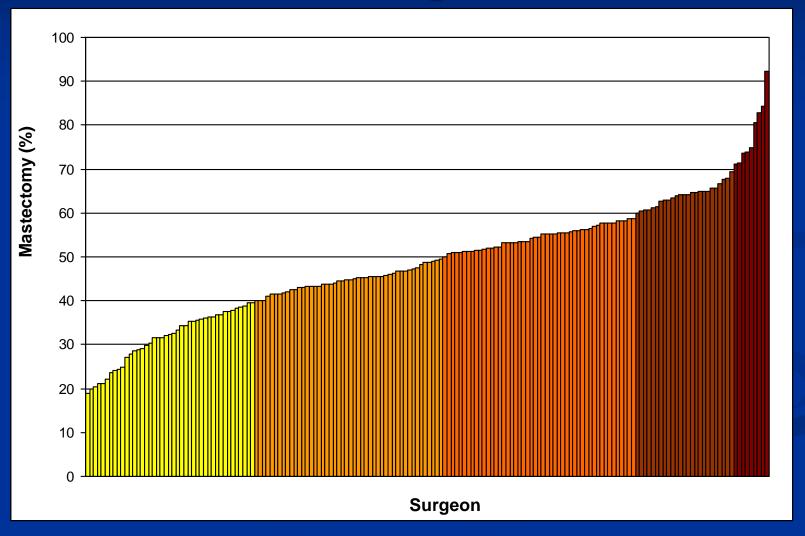
VARIATIONS IN PRACTICE

- UK screening data
- Dutch audit evidence
- UK National mastectomy audit
- Scottish regional data

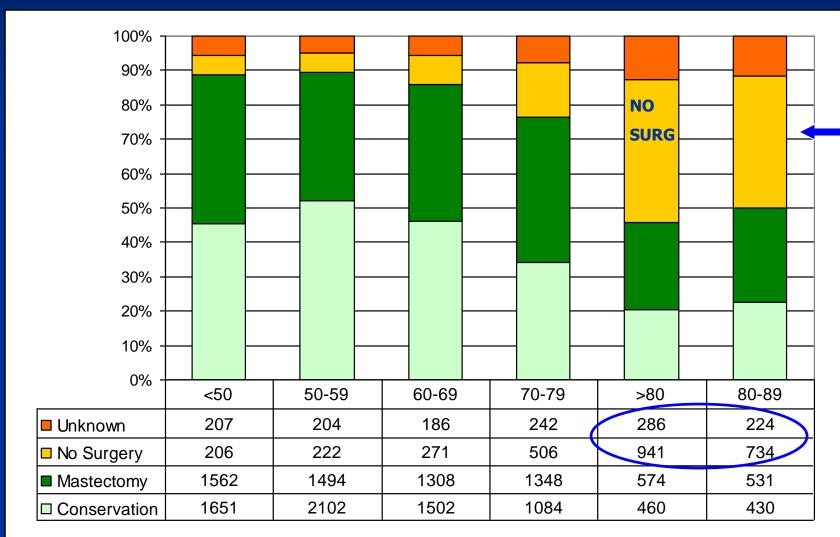
Number of cases treated by each surgeon



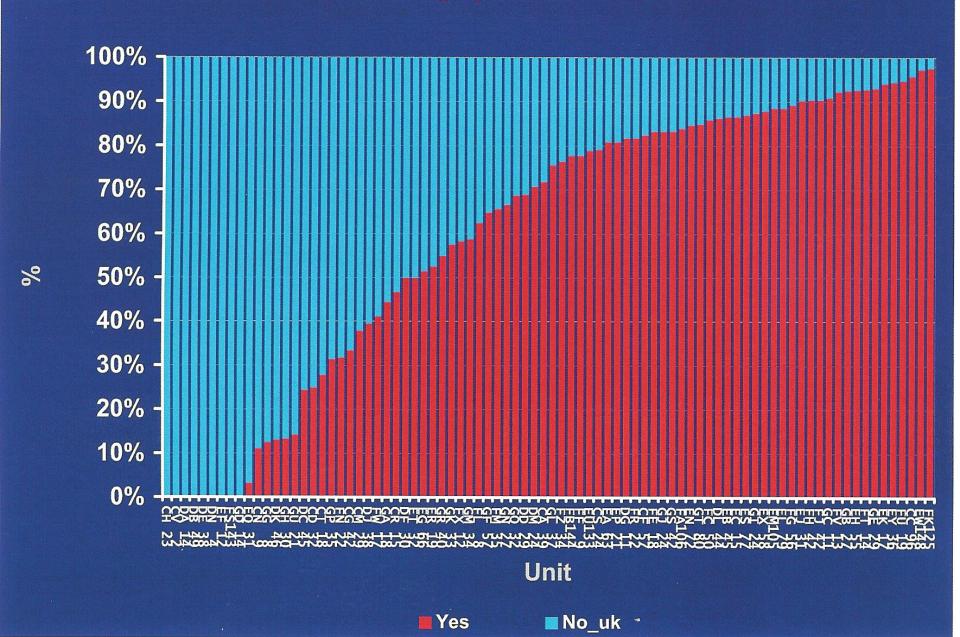
Variation in mastectomy rates



Surgical treatment: variation with age (UK)



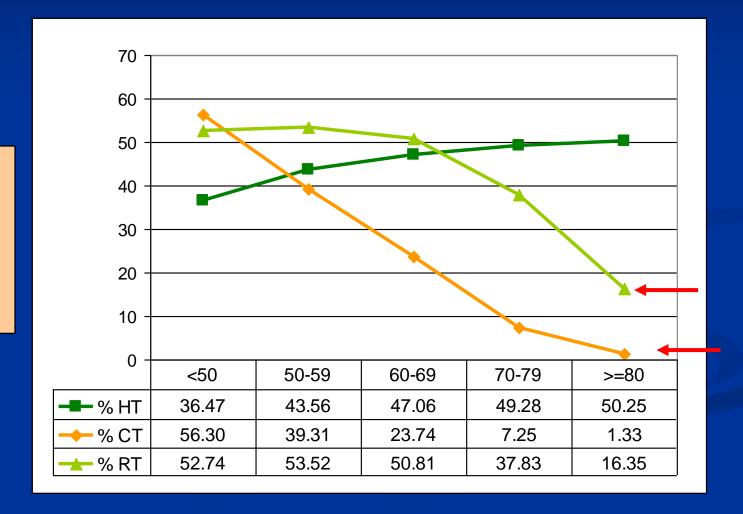
Radiotherapy (local or site unknown) following Breast Conservation Surgery for Invasive Breast Cancer



Variation in adjuvant treatment with age

15,166 invasive cancers

UK West Midlands



UNDERTREATMENT OF THE ELDERLY

Report	Year	No surgery	5 yr survival	10 yr survival
UK 2 nd National cancer report	2007	10% 65-74yrs 26% 80 yrs>	86% <50yrs 62% >80yrs	
SEER JCO 2011	1980-1997			50-64yrs

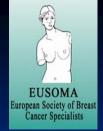
UK NATIONAL AUDIT 2011 Headline results

- 21% reconstruction rate post MX
- 18% readmitted for complications
- Only 50% satisfied with pre op information

PROMS findings

- Only 59% satisfied with unclothed appearance (immediate reconstruction)
- 76% satisfied with unclothed app (delayed)

EUSOMA



EUROPEAN JOURNAL OF CANCER 46 (2010) 2344-2356



available at www.sciencedirect.com



journal homepage: www.ejconline.com



Position Paper

Quality indicators in breast cancer care

M. Rosselli Del Turco ^{a,*}, A. Ponti ^b, U. Bick ^c, L. Biganzoli ^d, G. Cserni ^e, B. Cutuli ^f, T. Decker ^g, M. Dietel ^c, O. Gentilini ^h, T. Kuehn ^k, M.P. Mano ^j, P. Mantellini ⁱ, L. Marotti ^a, P. Poortmans ^l, F. Rank ^m, H. Roe ⁿ, E. Scaffidi ^h, J.A. van der Hage ^o, G. Viale ^p, C. Wells ^q, M. Welnicka-Jaskiewicz ^r, Y. Wengstöm ^s, L. Cataliotti ^t

Summary Table of Quality Indicators in Breast Cancer Care

	Indicator	Level of evidence	Mandatory/ Recomm.		Target Idard
1.	Completeness of clinical and imaging diagnostic work-up (Proportion women with breast cancer who pre-operatively underwent mammography, ultrasound and physical examination)	ion of III	M	90%	95%
3.	Proportion of women with breast cancer (invasive or in situ) who l pre-operative definitive diagnosis (B5 or C5)	had a III	M	80%	90%
4b	Proportion of invasive cancer cases with primary surgery, for which following prognostic/predictive parameters have been recorded: histological type, grading, ER & PR, HER 2, pathological stage (T are size in mm for the invasive component, peritumoral vascular invadistance to nearest radial margin	nd N),	M	95%	98%
Surge 8.	ry and loco-regional treatment Multidisciplinary discussion (proportion of cancer patients to be dicussed)	IV	М	90%	99%
9. c	Proportion of patients (invasive cancers) and a clinically negative (+US ±FNA/CNB) who had sentinel lymph-node biopsy	axilla II	M	90%	95%
9d	Proportion of patients with invasive cancer and axillary clearance performed with at least 10 lymph nodes examined	e III	M	95%	98%

QUALITY INDICATORS BC SURGERY

- MDT discussion (90%)- IV
- 1 operation (80)- III
- SNB in Negative axilla (90)- II

Associated with surgery

- Post op RT after WLE (90)- I
- Post MX RT after Ax nodes pos (90)- I
- Adjuvant chemo/hormone therapy (90) -I

Roselli Del Turco et al EJC 2010 – EUSOMA workshop

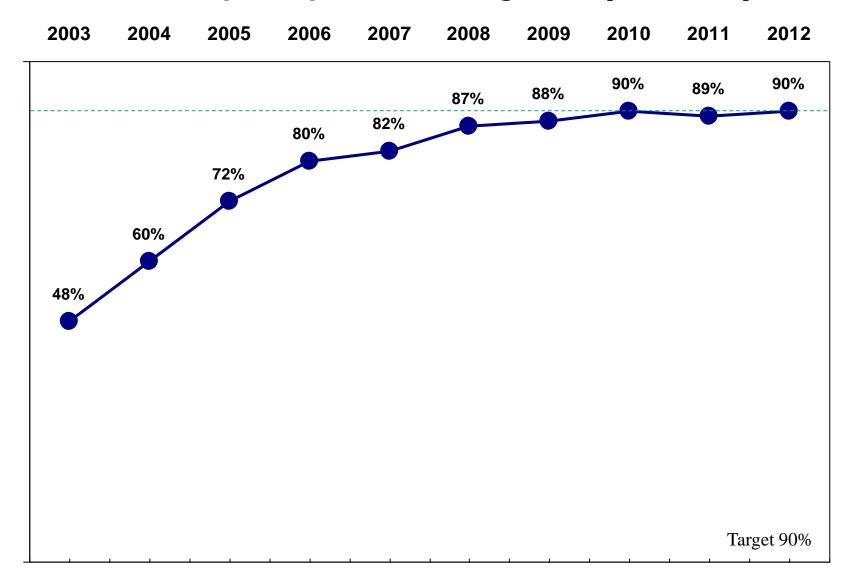
EUSOMA Network web data system Quality indicators 2003-2012 in certified Units

EUSOMA database – 48 units – 43256 invasive cancers

1	Cancers with a pre-operative diagnosis (B5 or C5)	32438 / 38989	=	83.2%	X	1523 miss. (3.8%)	32438	1523	6551
2	Invasive ca with hist.type, grading, ER/PR, stage & size recorded	33085/35794	=	92.4%	X	0 miss.	33085		2709
3	Non-invasive ca with size, hist pattern & grading recorded	3778 / 4794	=	78.8%	X	0 miss.	3778		1016
4	Invasive ca with axillary clearance with >= 10 LNs examined	13119 / 14922	=	87.9%	X	613 miss. (3.9%)	13119	613	1803
5	M0 invasive ca receiving postoperative RT after BCT	19609/20721	=	94.6%	X	2612 miss. (11.2%)	19609	2612	1112
6	Invasive ca <= 3 cm (incl. DCIS component) treated with BCT	19612/24502	=	80%	1	743 miss. (2.9%)	19612	743	4890
7	Non-invasive ca <= 2 cm treated with BCT	2245 / 2668	=	84.1%	1	151 miss. (5.4%)	2245	151	423
8	DCIS with no axillary clearance	4030 / 4308	=	93.5%	X	27 miss. (0.6%)	4030	27	278
9	Endocrine sensitive invasive ca receiving HT	22994/24324	=	94.5%	1	6481 miss. (21%)	22994	6481	1330
10	ER- (T > 1 cm or N+) invasive ca receiving adjuvant CT	3670 / 4035	=	91%	1	500 miss. (11%)	3670	500	365
11	Invasive ca receiving just 1 operation (excl. reconstruction)	28518 / 35521	=	80.3%	X	55 miss. (0.2%)	28518	55	7003
12	DCIS receiving just 1 operation (excl. reconstruction)	2775 / 4455	=	62.3%	X	3 miss. (0.1%)	2775	3 1	1680
13	Invasive ca pN0 not receiving axillary clearance (SLN only)	16439/21549	=	76.3%	X	7 miss. (0%)	16439	7	5110



1 - Cancers with a pre-operative diagnosis (B5 or C5)

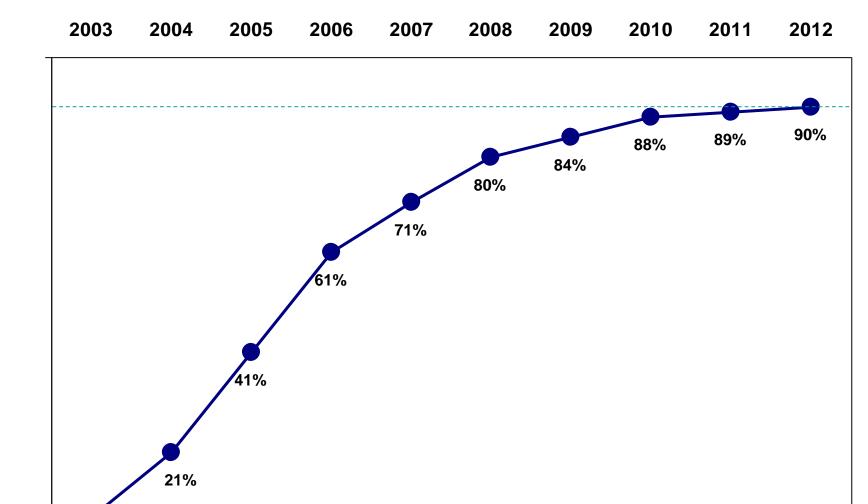




Target 90%

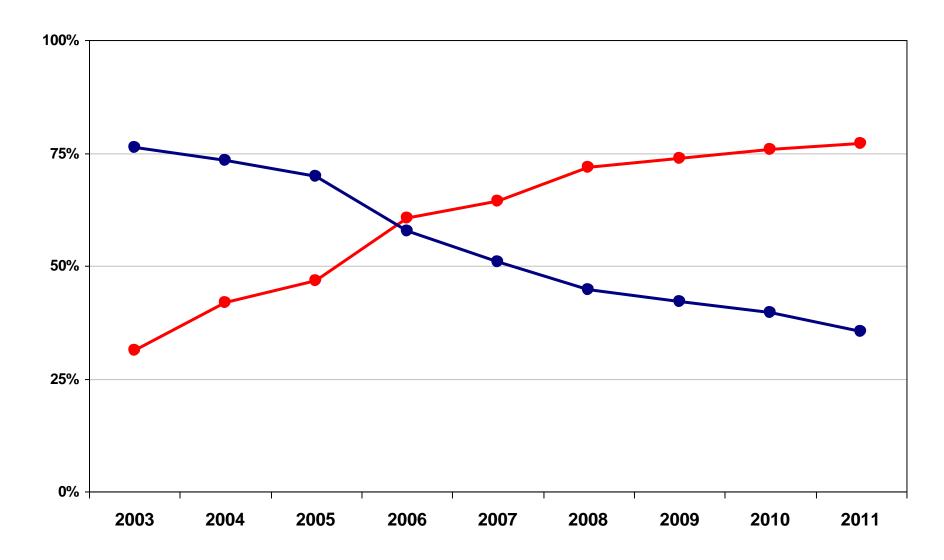
13 - SLN only in pN0

8%



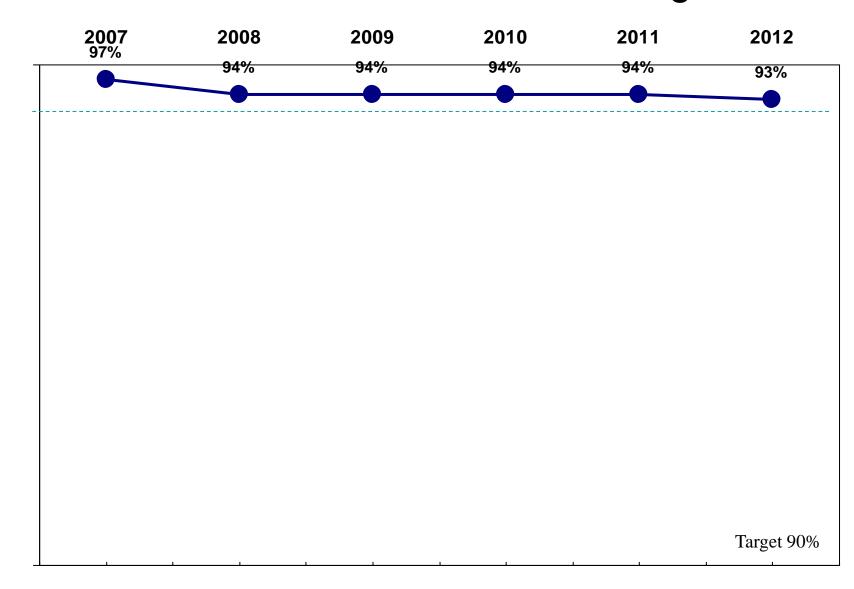
E Europea Can

EUSOMA database – 48 units – 43256 invasive cancers % SLNB & ALND trend across years



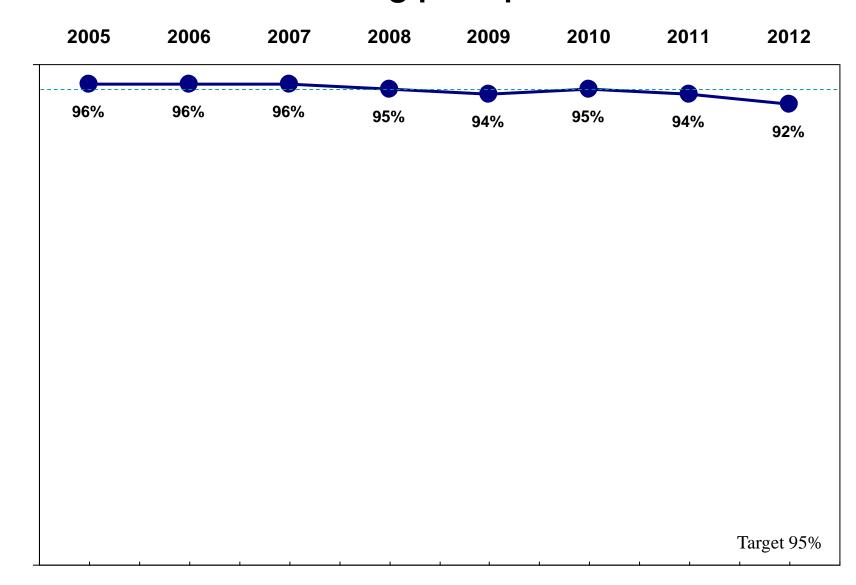


9 - Endocrine sensitive invasive ca. receiving HT



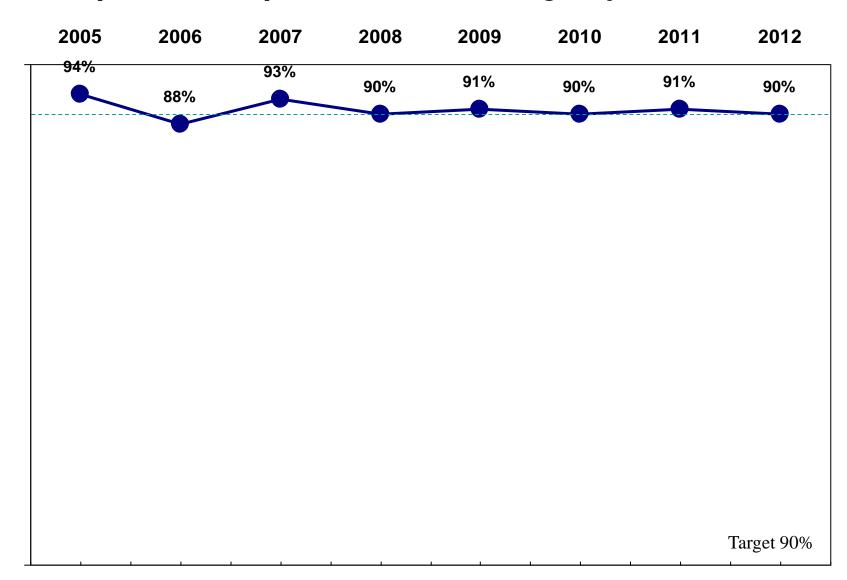


5 - M0 invasive ca receiving postop. RT after BCT



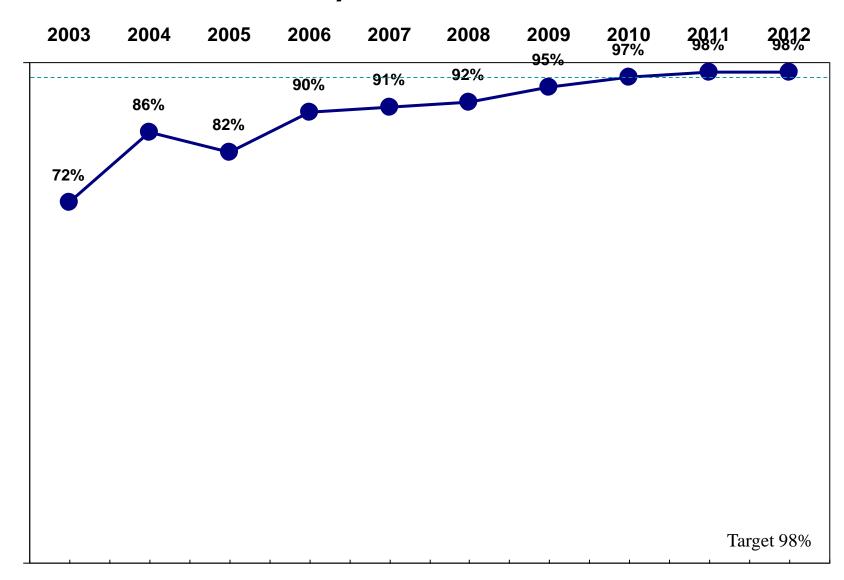


10 - ER- (T>1cm or N+) Invasive ca receiving adjuvant CT



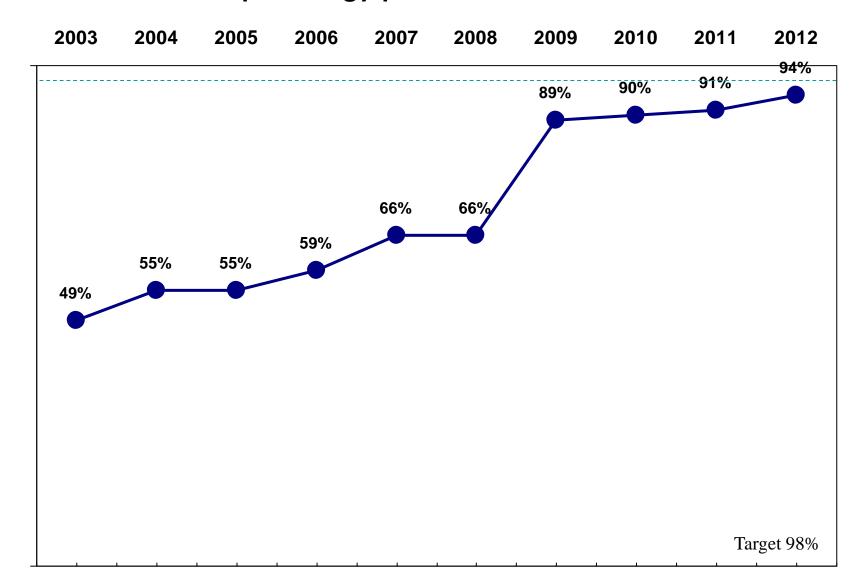


8 – DCIS with no axillary clearance





3 – DCIS with main histopathology parameters recorded



WHY IS ACCREDITATION NEEDED?

- Large variations in practice even when good evidence is available
- These variations are confusing for patients and likely lead to poor outcomes for some patients
- Variations in treatment not based on evidence are not cost efficient and increase patient complications

« European State of Art» 13th April 2015





Centres in process



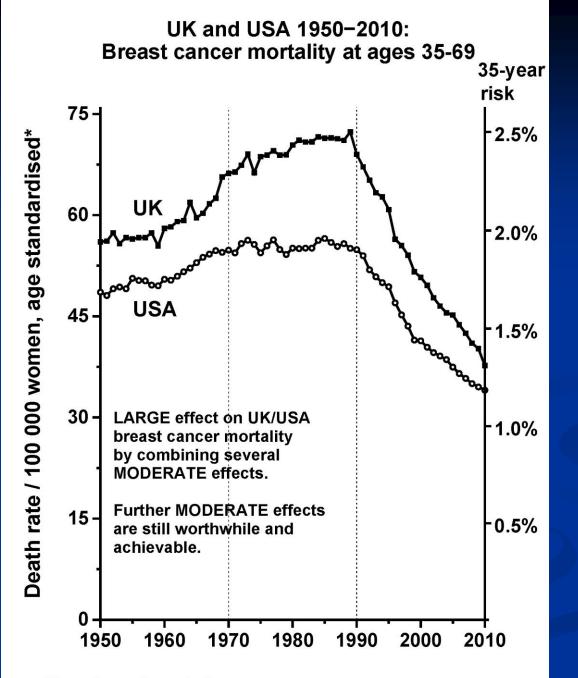
Certified Centres



THE FUTURE

 European Commission via JRC (joint research centre based in Ispra, Italy) will manage a 3yr programme to update European Breast Guidelines and produce an accreditation plan to be used across all European Breast Centres according to European Parliament resolutions

Info at JRC Science hub https://ec.europa.eu/jrc/en/research-topic/healthcare-quality



^{*}Mean of annual rates in the seven component 5-year age groups

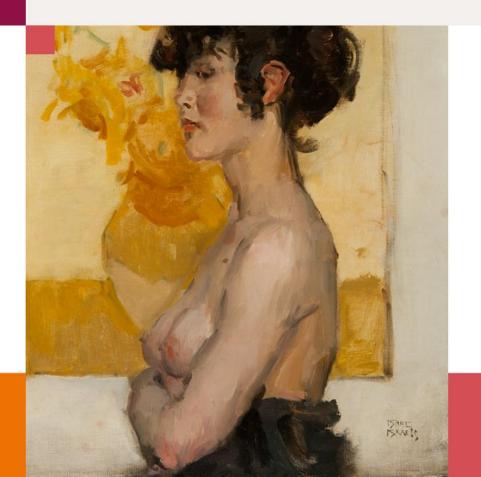


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