

Aesthetic results and quality of life after breast-conserving surgery

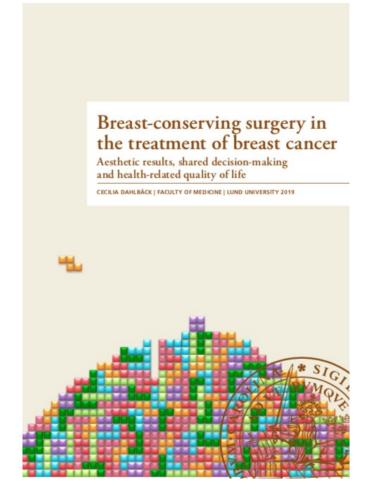
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Breast cancer

One in ten women diagnosed Low mortality (>80% 10 year survival rate)

About 70% are treated with breast-conserving surgery (BCS) in Sweden

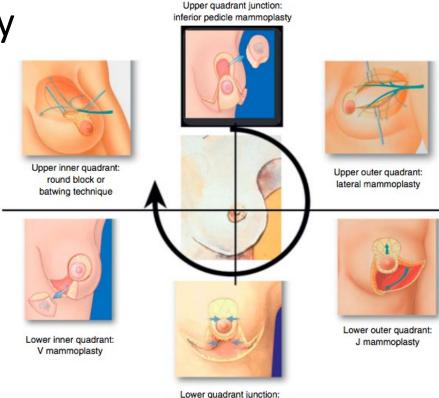
Aesthetic result after treatment can affect quality of life

Breast-conserving surgery

Conventional

Oncoplastic breast surgery

When to use which?



Lower quadrant junction: superior pedicle mammoplasty

Clough et. al. Oncoplastic surgery for breast cancer based on tumour location and a quadrant-per-quadrant atlas. British Journal of Surgery. 2012 Oct; 99(10):1389-95. With permission. © John wiley & Sons Ltd.

Study population

Women offered breast-conserving surgery (BCS) for a suspected breast cancer 2008-2012 in Malmö (n=532)

Follow-up one year after operation and radiotherapy -Study-specific questionnaire (SSQ) -Photo documentation

2015 evaluation with the Breast-Q[™] quality of life questionnaire

Aesthetic result after conventional BCS

Patient evaluation (SSQ)

	Satisfied/very satisfied n (%)
General appearance of the operated breast	249 (84%)
Symmetry between the breasts	202 (68%)

Very satisfied

30 mm tumor left breast 6 o'clock

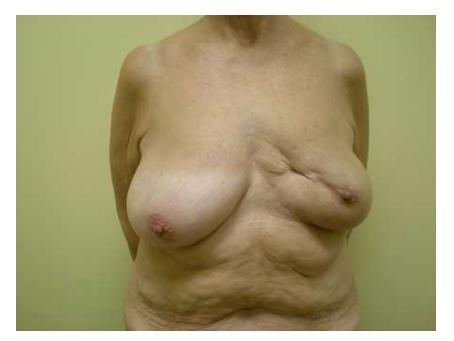




Very dissatisfied

10 mm tumor left breast 9 o'clock





Very satisfied

10 mm tumor left breast 7 o'clock



Not entirely satisfied

35 mm tumor left breast 2 o'clock



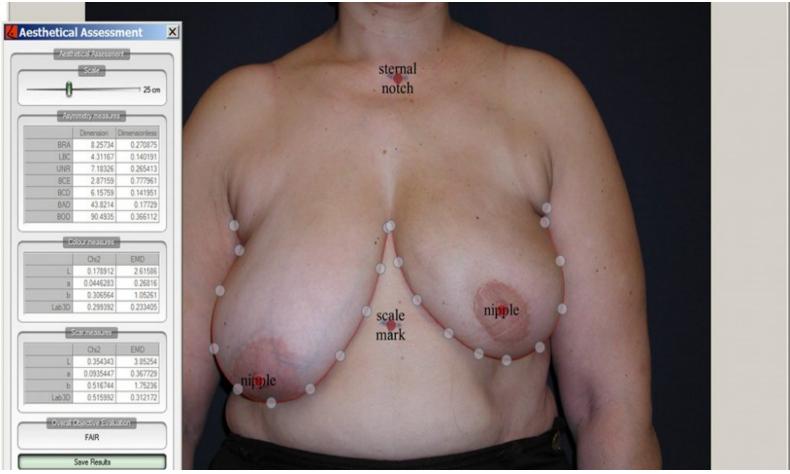
How may aesthetic results be assessed?

Patient reported outcome measures (PROMs) Panel of assessors

Computerized assessment

SSQ Photo panel evaluation BCCT.core

BCCT.core



http://medicalresearch.inescporto.pt/breastresearch/index.php/BCCT.core

Pros and cons with different methods

Study-specific questionnaire		Photo panel assessment		BCCT.core	
+	-	+	-	+	-
Patients who are to live with the results	Affected by other things in life?	More objective than the patient's assessment?	Low agreement between assessors	Reproducible	The software may misinterpret the photo
	Are the results reproducible?		Low agreement between the same assessor's evaluation at different sessions	Not time consuming	
			Very time consuming	Simple to use	
				Free	

Aesthetic result after conventional BCS

	Dissatisfied	Not entirely satisfied	Satisfied	Very satisfied
SSQ aesthetic result	2%	9%	42%	41%
SSQ symmetry	5%	16%	43%	25%

	Poor	Fair	Good	Excellent
Panel aesthetic result	4%	10%	45%	41%
Panel symmetry	1%	20%	49%	31%

	Poor	Fair	Good	Excellent
BCCT.core	3%	24%	57%	16%

Which factors affect aesthetic results after conventional BCS?

	SSQ aesthetic results	SSQ symmetry	Panel aesthetic result	Panel symmetry	BCCT.core
High BMI		х		х	Х
Tumor location			X		
Excision >20% of preop breast volume	X		X	X	x
Axillary dissection	Х				
Infection		Х			
Reexcision		x	X		
Radiotherapy				X	

Evaluation of quality of life: the Breast-Q[™]

Disease-specific

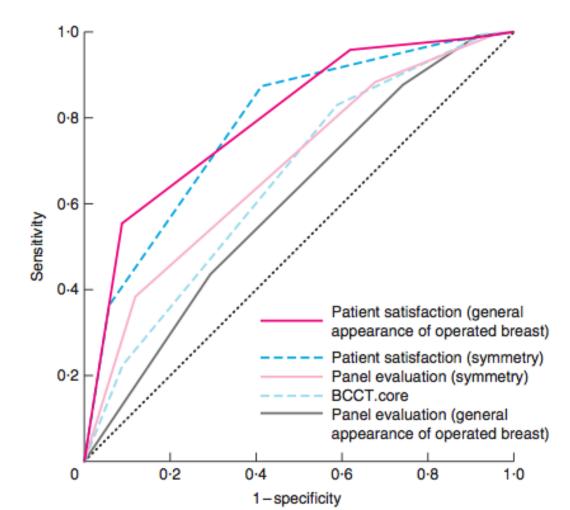
Specific questionnaire for breast-conserving surgery with adjuvant radiotherapy

Different domains

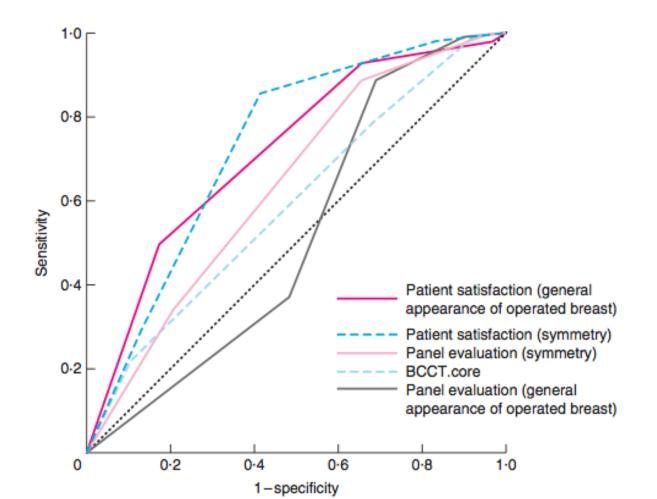


Which method predicts quality of life best?

Satisfaction with breasts



Psychosocial well-being



Conclusion

PROMs most important to predict future quality of life
BCCT.core – valuable as a complement?
Panel evaluation: resource consuming and low agreement

Many may be treated with conventional BCS with good aesthetic results

If a large portion of the breast is to be excised –other treatment options available?

Thank you!