

Is breast-conserving surgery a feasible treatment option for breast cancers in augmented breasts?

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Introduction The study aims to evaluate the treatment choices and disease characteristics of breast cancers in patients with or without previous augmented mammoplasty. The treatment outcomes of patients who received breast conserving surgery (BCT) in augmented breasts as compared to those who received mastectomy with implant reconstruction were studied. **Conclusion** History of augmentation mammoplasty did not affect the choice of treatment in breast cancer patients. BCT with adjuvant radiotherapy is non-inferior to mastectomy with implant reconstruction in terms of rate of capsular contracture.

Materials and method A retrospective case-control study was performed of patients with prior breast augmentation undergoing breast cancer treatment by a surgeon at private practice between 2014 and 2021. Controls were propensity-score matched with age and BMI in a 1:1 ratio.

Basic demographics

25 breast cancer patients with



25 breast cancer patients propensity-

Surgery to the breast

Augmon Non n

	prev augmenta mammopl	ition 🥢	-	atched with BMI		Augmen ted group (%)	Non- augmente d group (%)	p- value
		Augmente d group (N=25)	Non- augmente d group	p- value	Breast conserving surgery (BCT)	12 (48)	14 (56)	0.778
			(N=25)		Mastectomy	13 (52)	11 (44)	
Age				0.264				
	Median (Range)	48.92 (29- 73)	51.40 (31- 64)			reconstr mastecto	uction aft my	er
BMI				0.229		Augment	Non-	р-
	Median (Range)	20.14 (16.6-26.1)	21.29 (15.9-28.2)			ed group (N=13) (%)	augmented group (N=11)	value
Capsular contracture in all patients							(%)	
with implant surgery					No reconstruction	2 (15.4)	6 (54.5)	0.036
		Capsular contractu re	No capsular contractur e	p- value	Reconstruction	11 (84.6)	5 (45.5)	
BC	T with	4	8	0.601	Implant	7 (63.6)	3 (60)	0.701
adj rad	juvant liotherapy			0.001	Latissimus dorsi flap with	1 (9.1)	0 (0)	
wit	stectomy h implant constructior	2 1	6		implant TRAM flap	3 (27.3)	2 (40)	

Capsular contracture in augmented cohort with implant surgery

	Capsular contracture	Pre-existing capsular contracture	p-value
BCT with adjuvant radiotherapy	4	3	0.378
Mastectomy with exchange of implant	2	1	