

Variations in concerns with preferences regarding the timing and technique in the setting of pre-operative and unknown post-operative radiation

	Pre-operative radiation - Technique				Unknown radiation - Timing		
	Implant-Based				Implant-Based		
Concerns	Most prefer implant	Least prefer implant	p-value		Most prefer immediate	Least prefer immediate	p-value
Severe Capsular Contracture	72.6	76.4	0.544		76.9	77.8	0.859
Mastectomy Skin loss	59.7	53.3	0.376		54.4	50.4	0.516
Asymmetry	50.0	35.7	0.044		38.8	39.3	0.924
Surgical site infection	40.3	50.3	0.172		48.1	50.4	0.705
Wound Dehiscence	69.4	81.9	0.034		76.3	78.6	0.640
Hematoma	8.1	2.5	0.047		5.6	3.4	0.391
	Autologous				Autologous		
Concerns	Most prefer auto	Least prefer auto	p-value		Most prefer immediate	Least prefer immediate	p-value
Mastectomy Skin loss	28.6	51.4	0.006		33.1	35.9	0.631
Asymmetry	18.2	16.2	0.773		18.8	16.2	0.589
Fat Necrosis	17.7	21.6	0.571		16.3	17.9	0.710
Total/Partial Flap Loss	24.5	32.4	0.310		25.6	28.2	0.632
Surgical site infection	14.5	35.1	0.002		20.6	18.8	0.707
Wound Dehiscence	53.6	51.4	0.797		52.5	51.3	0.841
Hematoma	0.9	5.4	0.100		1.9	0	0.265
Tissue Edema	25.0	13.5	0.126		21.9	20.5	0.784
Tissue Fibrosis	42.3	35.1	0.415		44.4	42.7	0.786
Donor Vessel Quality and Dissection	47.3	13.5	<0.001		35.0	41.0	0.306
Poor Cosmetic Outcome	27.3	24.3	0.708		30.0	27.4	0.631

Unknown radiation - Timing				Unknown radiation - Timing		
Implant-Based				Implant-Based		
Most prefer delayed	Least prefer delayed	p-value		Most prefer delayed-immediate	Least prefer delayed-immediate	p-value
78.7	76.5	0.714		75.2	75.0	0.976
56.1	53.1	0.683		49.6	55.7	0.374
40.9	47.5	0.363		46.8	36.4	0.120
45.5	43.8	0.822		46.8	48.9	0.762
74.2	73.5	0.903		80.1	83.0	0.596
4.5	5.6	0.757		1.4	1.1	0.855
Autologous				Autologous		
Most prefer delayed	Least prefer delayed	p-value		Most prefer delayed-immediate	Least prefer delayed-immediate	p-value
37.9	33.3	0.513		30.5	28.4	0.737
15.2	23.5	0.163		21.3	14.8	0.220
16.7	22.8	0.300		23.4	13.6	0.070
27.3	27.8	0.938		27.7	22.7	0.406
19.7	18.5	0.837		19.1	23.9	0.394
60.6	53.7	0.341		48.2	51.1	0.668
0	2.5	0.198		0.7	0	0.429
21.2	16.7	0.418		17.7	26.1	0.128
40.9	37	0.585		40.4	51.1	0.113
30.3	40.1	0.164		46.1	31.8	0.032
30.3	24.1	0.330		24.8	36.4	0.062

Unknown radiation - Technique/Timing				
Implant-Based				
Immediate tissue expander	Direct to implant	Immediate autologous	Delayed reconstruction	p-value
75.8	66.7	79.7	77.5	0.311
44.2	61.5	56.3	66.7	0.013
45.4	38.5	43.8	33.3	0.058
51.7	53.8	42.2	40.2	0.159
79.6	74.4	75.0	77.5	0.800
3.3	5.1	3.1	4.9	0.862
Autologous				
Immediate tissue expander	Direct to implant	Immediate autologous	Delayed reconstruction	p-value
32.1	41.0	29.7	37.3	0.612
20.8	17.9	23.4	13.7	0.370
16.7	23.1	23.4	25.5	0.242
29.2	17.9	18.8	30.4	0.172
18.3	33.3	6.3	18.6	0.036
50.0	64.1	46.9	56.9	0.232
0.4	2.6	1.6	1.0	0.539
20.4	25.6	20.3	18.6	0.836
42.9	35.9	54.7	35.3	0.080
41.7	25.6	43.8	33.3	0.131
27.5	12.8	31.3	29.4	0.181

Presented as the percentage of the given subgroup who reported each of the listed concerns as one of their 3 main concerns with either autologous (bottom) or implant-based (top) reconstruction in the setting of recent radiation. $\alpha=0.05$, bolded p-value indicates statistical significance