

Variations in preferred techniques and timing across respondent characteristics

	Geography					Surgeon Experience (Years in Practice)					Practice Outliers						
	USA		Rest of the world			Greater than 5 years		First 5 years			Predominantly (≥80%) implant		Balanced practice		Predominantly (≥40%) autologous		
	% Preferred option	% Least preferred option	% Preferred option	% Least preferred option	p-value	% Preferred option	% Least preferred option	% Preferred option	% Least preferred option	p-value	% Preferred option	% Least preferred option	% Preferred option	% Least preferred option	% Preferred option	% Least preferred option	p-value
Preferred technique in a history of radiation																	
Implant-based	25 (12.6%)	116 (56.6%)	41 (22.4%)	89 (43.4%)	0.006	62 (19.6%)	165 (52.1%)	4 (6.3%)	40 (62.5%)	0.027	41 (26.3%)	70 (44.9%)	18 (15.4%)	68 (58.1%)	7 (6.5%)	67 (62.0%)	<0.001
Direct autologous	122 (61.6%)	13 (6.6%)	105 (57.4%)	27 (14.8%)	0.069	183 (57.7%)	36 (11.4%)	44 (68.8%)	4 (6.3%)	0.039	65 (41.7%)	24 (15.4%)	74 (63.2%)	11 (9.4%)	88 (81.5%)	5 (4.6%)	<0.001
Tissue expander to autologous	22 (11.1%)	41 (20.7%)	22 (12.0%)	35 (19.1%)	0.965	33 (10.4%)	66 (20.8%)	11 (17.2%)	10 (15.6%)	0.372	20 (12.8%)	35 (22.4%)	12 (10.3%)	22 (18.8%)	12 (11.1%)	19 (17.6%)	0.125
Implant + autologous	29 (14.6%)	28 (14.1%)	15 (8.2%)	31 (17.5%)	0.055	39 (12.3%)	50 (15.8%)	5 (7.8%)	10 (15.6%)	0.741	30 (19.2%)	27 (17.3%)	13 (11.1%)	116 (13.7%)	1 (0.9%)	17 (15.7%)	<0.001
Preferred timing when post-op radiation unknown	% Preferred Option	% Least Preferred Option	% Preferred Option	% Least Preferred Option	p-value	% Preferred Option	% Least Preferred Option	% Preferred Option	% Least Preferred Option	p-value	% Preferred Option	% Least Preferred Option	% Preferred Option	% Least Preferred Option	% Preferred Option	% Least Preferred Option	p-value
Immediate	92 (46.5%)	61 (30.8%)	72 (39.3%)	61 (33.3%)	0.347	135 (42.6%)	101 (31.9%)	29 (45.3%)	21 (32.8%)	0.820	76 (48.7%)	39 (25.0%)	42 (35.9%)	42 (35.9%)	46 (42.6%)	41 (38.0%)	0.071
Delayed	30 (15.2%)	85 (42.9%)	40 (21.9)	82 (44.8%)	0.119	61 (19.2%)	140 (44.2%)	9 (14.1%)	27 (42.2%)	0.461	23 (14.7%)	77 (49.4%)	24 (20.5%)	51 (43.6%)	23 (21.3%)	39 (36.1%)	0.250
Delayed-Immediate	76 (38.4%)	52 (26.3%)	71 (38.8%)	40 (21.9%)	0.556	121 (38.2%)	76 (24.0%)	26 (40.6%)	16 (25.0%)	0.870	57 (36.5%)	40 (25.6%)	51 (43.6%)	24 (20.5)	39 (36.1%)	28 (25.9%)	0.715
Preferred technique when post-op radiation unknown	USA	Rest of the world	p-value			Greater than 5 years	First 5 years	p-value			Predominantly implant	Balanced practice	Predominantly autologous	p value			
Immediate tissue expander	151 (63.4%)	89 (42.8)	<0.001			191 (49.0%)	49 (65.3%)	<0.001			110 (70.5%)	70 (59.8%)	52 (48.1%)	0.001			
Direct to implant	19 (8.0%)	20 (9.6%)	0.861			32 (8.2%)	7 (9.3%)	0.548			25 (16.0%)	10 (8.5%)	4 (3.7%)	0.004			
Immediate autologous	24 (10.1%)	40 (19.2%)	0.089			52 (13.3%)	12 (16.0%)	0.318			7 (4.5%)	15 (12.8%)	40 (37.0%)	<0.001			
Delayed reconstruction	44 (18.5%)	58 (27.9%)	0.333			83 (21.3%)	19 (25.3%)	0.138			29 (18.6%)	37 (31.6%)	28 (25.9%)	0.044			
No reconstruction	0 (0%)	1 (0.5%)	1.000			1 (0.3%)	0 (0%)	1.000			0 (0%)	1 (0.8%)	0 (0%)	0.853			

Data presented as N (%). α=0.05, bolded p-value indicates statistical significance