

Supplemental Digital Content 4: Multiple variable model explaining if patient knew that reconstruction could be performed immediately after mastectomy.

Characteristic	Patient-level model		Patient and Surgeon multilevel model	
	OR (95% CI)	P-value	OR (95% CI)	P-value
Site: LA vs GA	0.78 (0.47-1.30)	0.346	0.58 (0.31-1.10)	0.096
Age survey: (continuous) +1 year	0.97 (0.95-0.99)	0.010	0.98 (0.95-1.01)	0.225
Race: Asian vs White	0.34 (0.17-0.67)	0.002	0.30 (0.13-0.68)	0.004
Race: Black vs White	0.40 (0.24-0.66)	<0.001	0.39 (0.22-0.72)	0.003
Race: Latina vs White	0.45 (0.24-0.85)	0.013	0.52 (0.24-1.14)	0.103
Behavior: Invasive vs DCIS	1.29 (0.81-2.05)	0.281	1.45 (0.83-2.52)	0.193
Mastectomy Type: Bilateral vs Unilateral	1.61 (1.07-2.43)	0.024	2.83 (1.66-4.80)	<0.001
Diabetes: Yes vs No	0.69 (0.43-1.12)	0.138	0.69 (0.37-1.28)	0.241
Bronchitis/Emphysema: Yes vs No	0.45 (0.22-0.92)	0.028	0.49 (0.22-1.12)	0.090
BMI category: underweight BMI<18.5 vs Normal	0.87 (0.20-3.84)	0.854	1.07 (0.19-6.05)	0.939
BMI category: overweight >25-30 vs Normal	0.76 (0.46-1.26)	0.290	0.79 (0.44-1.41)	0.432
BMI category: obese >30 vs Normal	0.77 (0.45-1.31)	0.330	0.80 (0.39-1.63)	0.533
Cup size: C vs A/B	1.39 (0.86-2.26)	0.177	1.53 (0.87-2.67)	0.139
Cup size: D vs A/B	1.35 (0.81-2.26)	0.243	1.27 (0.71-2.27)	0.426
Cup size: DD+ vs A/B	1.73 (0.88-3.39)	0.112	1.37 (0.61-3.10)	0.445
At least some college: Yes vs No	1.83 (1.19-2.82)	0.006	2.46 (1.51-4.02)	<0.001
Income group: 40K-<90K vs <40K	2.13 (1.27-3.57)	0.005	2.15 (1.21-3.82)	0.009
Income group: 90K+ vs <40K	2.46 (1.37-4.40)	0.003	2.20 (1.09-4.43)	0.028
Insurance: None/Other vs Private	0.25 (0.07-0.93)	0.038	0.18 (0.03-1.11)	0.064
Insurance: Medicaid vs Private	0.86 (0.46-1.59)	0.623	0.83 (0.39-1.76)	0.618
Insurance: Medicare vs Private	0.61 (0.36-1.01)	0.057	0.61 (0.31-1.18)	0.141
Insurance: Other Public vs Private	0.67 (0.19-2.35)	0.532	0.48 (0.13-1.68)	0.250
Married: No vs Yes	0.86 (0.56-1.31)	0.483	0.89 (0.51-1.57)	0.692

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Surgeon Clustering Effect (per SD)	N/A	N/A	1.09 (0.75-1.57)	0.301
Surgeon; breast cancer patient volume: 51+ vs Less	N/A	N/A	1.05 (0.64-1.72)	0.856
Surgeon; teaching (resident/fellows) status: Yes vs No	N/A	N/A	2.12 (1.23-3.65)	0.007
Surgeon; years in practice since completing residency: (continuous) +1 year	N/A	N/A	0.98 (0.96-1.00)	0.088

Shaded model reported in Forest Plot.