

Supplemental Digital Content 2: Multiple variable model explaining if patient reports that a doctor told her that breast reconstruction was an option for her.

Characteristic	Patient-level model		Patient and Surgeon multilevel model	
	OR (95% CI)	P-value	OR (95% CI)	P-value
Site: LA county vs State of Georgia	2.19 (0.88-5.42)	0.092	2.67 (0.86-8.27)	0.089
Age survey: (continuous) +1 year	0.92 (0.89-0.96)	<0.001	0.93 (0.88-0.97)	0.002
Race: Asian vs White	0.31 (0.09-1.01)	0.052	0.31 (0.08-1.17)	0.084
Race: Black vs White	0.64 (0.26-1.54)	0.317	0.71 (0.27-1.91)	0.501
Race: Latina vs White	0.32 (0.10-1.00)	0.051	0.31 (0.09-1.10)	0.071
Behavior: Invasive vs DCIS	0.99 (0.45-2.21)	0.988	1.10 (0.49-2.48)	0.822
Mastectomy Type: Bilateral vs Unilateral	1.87 (0.87-4.03)	0.107	1.70 (0.77-3.75)	0.188
Diabetes: Yes vs No	0.88 (0.43-1.81)	0.735	0.89 (0.38-2.09)	0.786
Bronchitis/Emphysema: Yes vs No	1.22 (0.43-3.43)	0.710	1.05 (0.33-3.27)	0.940
BMI category: underweight BMI<18.5 vs Normal	0.18 (0.04-0.90)	0.036	0.22 (0.04-1.13)	0.069
BMI category: overweight >25-30 vs Normal	0.65 (0.28-1.49)	0.306	1.00 (0.39-2.60)	0.993
BMI category: obese >30 vs Normal	0.47 (0.21-1.05)	0.067	0.63 (0.25-1.62)	0.343
Cup size: C vs A/B	1.40 (0.67-2.95)	0.373	1.04 (0.49-2.22)	0.923
Cup size: D vs A/B	1.80 (0.75-4.34)	0.187	1.12 (0.41-3.03)	0.827
Cup size: DD+ vs A/B	4.26 (0.74-24.4)	0.102	2.57 (0.23-28.5)	0.429
At least some college: Yes vs No	1.20 (0.61-2.35)	0.598	1.08 (0.45-2.58)	0.868
Income group: 40K-<90K vs <40K	2.32 (0.87-6.18)	0.092	3.30 (0.96-11.3)	0.067
Income group: 90K+ vs <40K	2.09 (0.55-7.95)	0.257	2.66 (0.75-9.41)	0.122
Insurance: None/Other vs Private	0.16 (0.03-0.83)	0.030	0.25 (0.03-1.85)	0.169
Insurance: Medicaid vs Private	0.31 (0.10-0.92)	0.035	0.34 (0.11-1.09)	0.069
Insurance: Medicare vs Private	0.69 (0.27-1.74)	0.427	0.94 (0.34-2.60)	0.906
Insurance: Other Public vs Private	0.27 (0.06-1.35)	0.111	0.31 (0.06-1.73)	0.183
Married: No vs Yes	1.27 (0.63-2.59)	0.499	1.31 (0.56-3.06)	0.533

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Surgeon Clustering Effect (per SD)	N/A	N/A	1.15 (0.55-2.42)	0.3052
Surgeon; breast cancer patient volume: 51+ vs Less	N/A	N/A	0.68 (0.29-1.63)	0.390
Surgeon; teaching (resident/fellows) status: Yes vs No	N/A	N/A	0.89 (0.39-2.05)	0.791
Surgeon; years in practice since completing residency: (continuous) +1 year	N/A	N/A	0.98 (0.95-1.01)	0.267

Shaded model reported in Forest Plot.