

Supplemental Tables for:

Women who are young, non-white, with low SES report high financial toxicity up to 1 year from breast cancer surgery: mixed-effects regression analysis

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Supplementary table 1. Bivariate test statistics and adjusted linear regression coefficients for the continuous out-of-pocket costs variable at each time point[†]

	1-week post-surgery		12-weeks post-surgery		1-year post-surgery	
	Bivariate statistic, p-value	Adjusted coeff. ^{+^} (95% CI)	Bivariate statistic, p-value	Adjusted coeff. [^] (95% CI)	Bivariate statistic, p-value	Adjusted coeff. [^] (95% CI)
Lower SES (vs. higher SES)	t=5.04, p<0.0001	-1.12 (-1.91, -0.34)*	t=5.28, p<0.0001	-1.26 (-2.06, -0.46)*	t=1.59, p=0.12	-1.84 (-3.29, -0.39)*
65 years and older (vs < 65)	t=6.03, p<0.0001	-2.29 (-3.00, -1.58)*	t=3.11, p=0.002	-1.18 (-1.89, -0.47)*	t=3.10, p=0.003	-2.42 (-3.68, -1.15)
Race/Ethnicity	F=10.39, p<0.0001	--	F=19.8, p<0.0001	--	F=0.67, p=0.92	--
White, non-Hispanic	--	<i>referent</i>	--	<i>referent</i>	--	<i>referent</i>
Black, non-Hispanic	--	0.09 (-1.17, 1.35)	--	0.02 (-1.21, 1.26)	--	2.50 (0.19, 4.81)*
Other	--	-0.86 (-2.13, 0.41)	--	-1.02 (-2.23, 0.21)	--	1.82 (-0.69, 4.34)
Mastectomy (vs. Lumpectomy)	t=-1.15, p=0.25	0.44 (-0.45, 1.33)	t=0.18, p=0.89	0.43 (-0.52, 1.37)	t=-1.10, p=0.27	0.16 (-1.84, 2.15)
Stage (I, II, or III)	F=0.49, p=0.61	--	F=0.41, p=0.66	--	F=0.31, p=0.73	--
Stage I	--	<i>referent</i>	--	<i>referent</i>	--	<i>referent</i>
Stage II	--	0.19 (-0.61, 0.98)	--	0.37 (-0.45, 1.19)	--	-0.04 (-1.65, 1.57)
Stage III	--	-0.29 (-3.20, 2.61)	--	0.54 (-1.89, 2.96)	--	2.92 (-3.66, 9.50)
Site						
Site 1	--	<i>referent</i>	--	<i>referent</i>	--	<i>referent</i>
Site 2	--	-0.96 (-2.26, 0.34)	--	-1.98 (-3.30, -0.67)*	--	-3.11 (-5.59, -0.63)*
Site 3	--	-1.16 (-2.71, 0.39)	--	-1.51 (-3.10, 0.09)	--	-0.30 (-2.69, 2.09)
Site 4	--	0.45 (-0.45, 1.35)	--	0.59 (-0.39, 1.57)	--	-0.42 (-1.90, 1.06)
Random effect SD estimates (SE)						
Clinic	--	3.14e ⁻²³ (6.34e ⁻²²)	--	1.50e ⁻¹⁸ (4.60e ⁻¹⁷)	--	1.26e ⁻²⁰ (1.79e ⁻¹⁶)

Surgeon	--	2.30e ⁻²³ (2.45e ⁻²²)	--	0.06 (0.30)	--	7.82e ⁻²⁰ (1.12e ⁻¹⁸)
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[^]Log coefficient adjusted for participant SES (high vs. low), age (≥ 65 vs. less than 65), race (white vs. black vs. other), surgery choice (breast conserving surgery vs. mastectomy), cancer stage (I vs. II vs. III), and study site as fixed effects and surgeon and clinic as random effects.

*p<0.05

⁺Abbreviations: Coeff. = coefficient; SE = Standard Error; SES = Socioeconomic Status; CI = Confidence Interval; SD = Standard Deviation

Supplemental table 2. Adjusted outputs from longitudinal models accounting for patient as a random effect

	Out-of-Pocket Costs (Zero vs. Non-Zero)	Out-of-Pocket Costs (Continuous)	Financial Toxicity
	Adjusted [^] OR (95% CI)	Adjusted [^] Log Coefficient (95% CI)	Adjusted [^] Coefficient (95% CI)
Lower SES (vs. higher SES)	0.17 (0.07, 0.45)*	-1.41 (-2.06, -0.76)*	1.23 (0.39, 2.07)*
65 years and older (vs. < 65)	0.18 (0.08, 0.44)*	-1.70 (-2.28, -1.11)*	-2.67 (-3.42, -1.92)*
Race/Ethnicity			
White, non-Hispanic	<i>referent</i>	<i>referent</i>	<i>referent</i>
Black, non-Hispanic	1.76 (0.43, 7.24)	0.31 (-0.71, 1.32)	2.04 (0.73, 3.35)*
Other	0.44 (0.11, 1.74)	-0.65 (-1.68, -0.38)	1.77 (0.44, 3.09)*
Mastectomy (vs. Lumpectomy)	1.59 (0.54, 4.73)	0.53 (-0.23, 1.28)	-0.35 (-1.31, 0.61)
Stage (I, II, or III)			
Stage I	<i>referent</i>	<i>referent</i>	<i>referent</i>
Stage II	1.08 (0.42, 2.79)	0.23 (-0.44, 0.89)	0.94 (0.10, 1.77)*
Stage III	0.40 (0.02, 7.38)	-0.35 (-2.51, 1.81)	1.98 (-0.63, 4.60)
Site			
Site 1	<i>referent</i>	<i>referent</i>	<i>referent</i>
Site 2	0.21 (0.05, 0.90)*	-1.57 (-2.62, -0.53)*	-1.76 (-3.11, -0.41)*
Site 3	0.13 (0.02, 0.71)*	-1.19 (-2.44, 0.05)	-1.50 (-3.08, 0.08)
Site 4	1.04 (0.37, 2.94)	0.30 (-0.43, 1.02)	-1.05 (-1.98, -0.12)*
Random effects estimates (SE)			
Clinic	8.65e ⁻⁹ (0.21)	7.35e ⁻¹⁶ (1.41e ⁻¹⁴)	5.54e ⁻²⁰ (NA)
Surgeon	9.47e ⁻¹⁰ (0.24)	2.77e ⁻¹⁷ (3.95e ⁻¹⁶)	1.44e ⁻¹⁹ (1.68e ⁻¹⁸)
Patient	2.32 (0.41)	4.55 (0.64)	9.80 (0.96)

[^]Adjusted for participant SES (high vs. low), age (≥ 65 vs. less than 65), race (white vs. black vs. other), surgery choice (breast conserving surgery vs. mastectomy), cancer stage (I vs. II vs. III), and study site as fixed effects and surgeon, clinic, and patient as random effects.

*p<0.05

Supplemental table 3. Participant characteristics comparing those who completed the one-year follow up assessment versus those who did not

Characteristic, n ()	Did not complete 1-year survey (n=267)	Completed 1-year survey (n=128)	p-value [^]
Socioeconomic Status			0.17
Lower	169 (63.3)	90 (70.3)	
Higher	98 (36.7)	38 (29.7)	
Age			0.40
Less than 65	160 (59.9)	71 (55.5)	
65 and older	107 (40.1)	57 (44.5)	
Race			0.001
White, non-Hispanic	155 (58.1)	99 (77.3)	
Black, non-Hispanic	45 (16.9)	10 (7.8)	
Other	60 (22.5)	18 (14.1)	
Missing	7 (2.6)	1 (0.8)	
Surgery Choice			0.015
Lumpectomy	202 (75.7)	111 (86.7)	
Mastectomy	63 (23.6)	17 (13.3)	
Missing	2 (0.7)	0 (0.0)	
Cancer Stage			0.21
Stage I	176 (65.9)	94 (73.4)	
Stage II	76 (28.5)	33 (25.8)	
Stage III	9 (3.4)	1 (0.8)	
Missing	6 (2.2)	0 (0.0)	

[^]Chi-square tests used to test for statistical differences between groups.