

Supplementary Table 1: Selected Cohort Characteristics by Urban/Rural Status

Characteristic	Urban No. (%) n=2150	Rural No. (%) n=285	p-value*
Age at Diagnosis, <i>mean (sd)</i>	52.09 (11.09)	54.03 (10.59)	0.005
Black Race	1043 (48.5)	148 (51.9)	0.28
Stage at Diagnosis, AJCC			
1	949 (44.1)	110 (38.6)	0.33
2	841 (39.1)	129 (45.3)	
3	274 (12.7)	37 (13.0)	
4	58 (2.7)	6 (2.1)	
Missing	28 (1.3)	3 (1.1)	
Annual Household Income			
<\$15,000	302 (14.0)	51 (17.9)	<0.001
\$15,000-\$29,999	371 (17.3)	67 (23.5)	
\$30,000-\$49,999	379 (17.6)	59 (20.7)	
\$50,000 or more	1000 (46.5)	89 (31.2)	
Missing	98 (4.6)	19 (6.7)	
Insurance Status at Baseline			
Private Insurance	1624 (75.5)	196 (68.8)	0.06
Medicaid	115 (5.3)	23 (8.1)	
Medicare	294 (13.7)	50 (17.5)	
Uninsured	117 (5.4)	16 (5.6)	
Educational Attainment			
Less than High School	154 (7.2)	28 (9.8)	<0.001
High School Graduate	1097 (51.0)	172 (60.4)	
College Graduate	899 (41.8)	85 (29.8)	
Occupation Category			
Not White Collar	573 (26.7)	124 (43.5)	<0.001
White Collar	1556 (72.4)	157 (55.1)	

* Differences by rurality assessed using two-sided Chi-square tests.; AJCC- American Joint Committee on Cancer

Supplementary Table 2: Unadjusted and Adjusted Risk Difference for Cancer-Related Employment Effects

Factor	Job Loss			Income Loss			Any Employment Change		
	Risk difference (SE)			Risk difference (SE)			Risk difference (SE)		
	Unadjusted (n=2431)	Clinical (n=2400)	SES (n=2266)	Unadjusted (n=2431)	Clinical (n=2400)	SES (n=2266)	Unadjusted (n=2435)	Clinical (n=2404)	SES (n=2266)
Race and Rurality (ref: White Urban)									
White Rural	3.86 (2.76)	3.77 (2.69)	2.6 (2.64)	10.7* (4.85)	9.19 (4.74)	5.96 (4.70)	11.3* (4.87)	9.86* (4.77)	5.72 (4.74)
Black Urban	8.43‡ (1.29)	6.66‡ (1.39)	4.55† (1.46)	15.3‡ (2.19)	9.74‡ (2.42)	4.45 (2.65)	16.7‡ (2.20)	11.4‡ (2.44)	6.05* (2.67)
Black Rural	4.43 (2.45)	3.27 (2.31)	1.54 (2.28)	12.4** (4.45)	6.84 (4.40)	-2.39 (4.68)	14.4† (4.48)	9.07* (4.44)	-0.056 (4.83)
Age (years)	–	-0.14* (0.06)	-0.085 (0.06)	–	-0.61‡ (0.11)	-0.60‡ (0.12)	–	-0.62‡ (0.11)	-0.59‡ (0.12)
AJCC¹ Stage (ref : Stage 1)									
Stage 2	–	1.55 (1.59)	1.61 (1.67)	–	0.96 (2.94)	0.59 (2.93)	–	1.57 (2.97)	1.43 (2.97)
Stage 3	–	-0.1 (1.93)	-0.15 (2.00)	–	6.23 (4.68)	2.33 (4.65)	–	5.62 (4.69)	1.84 (4.65)
Stage 4	–	6.98 (3.65)	7.76* (3.83)	–	12 (8.07)	7.81 (7.74)	–	12.1 (8.18)	8.27 (7.94)
Surgery Type (ref : Breast Conserving Surgery)									
Total Mastectomy	–	-2.41 (1.46)	-2.61 (1.53)	–	0.24 (3.02)	0.5 (3.08)	–	0.12 (3.05)	0.48 (3.10)
Treatments Received									
Chemotherapy	–	2.76 (1.57)	2.5 (1.63)	–	9.97‡ (3.20)	10.8‡ (3.17)	–	9.98† (3.23)	11.1‡ (3.19)
Radiation	–	2.33 (1.37)	2.78 (1.45)	–	-1.08 (3.29)	-0.53 (3.35)	–	-1.14 (3.31)	-0.42 (3.39)
Endocrine Therapy	–	-1.63	-1.96	–	-0.4	1.11	–	-0.3	1.1

	-	(1.36)	(1.47)	-	(2.67)	(2.62)	-	(2.69)	(2.65)
Trastuzumab	-	0.23	0.72	-	1.29	0.41	-	1.08	0.22
	-	(1.58)	(1.69)	-	(3.46)	(3.49)	-	(3.50)	(3.52)
Comorbidities									
Obesity	-	0.62	0.68	-	2.45	2.18	-	2.73	2.46
	-	(1.62)	(1.66)	-	(3.57)	(3.62)	-	(3.58)	(3.63)
Hypertension	-	0.16	-0.37	-	2.71	0.18	-	2.48	0.14
	-	(1.47)	(1.44)	-	(2.74)	(2.77)	-	(2.76)	(2.79)
Diabetes	-	-1.18	-0.66	-	1.46	-0.086	-	0.49	-0.91
	-	(1.73)	(1.94)	-	(3.84)	(3.92)	-	(3.82)	(3.92)
Occupation (ref: Not White Collar)									
White Collar	-	-	-2.69	-	-	-2.41	-	-	-2.52
	-	-	(1.62)	-	-	(3.38)	-	-	(3.44)
Education (ref: Less than High School)									
High School Graduate	-	-	0.13	-	-	0.42	-	-	1.59
	-	-	(2.40)	-	-	(5.43)	-	-	(5.49)
College Graduate	-	-	-1.03	-	-	-5.82	-	-	-5.3
	-	-	(2.79)	-	-	(6.06)	-	-	(6.12)
Marital Status (ref: single)									
Married	-	-	-1.67	-	-	1.6	-	-	0.43
	-	-	(1.63)	-	-	(3.84)	-	-	(3.97)
Widowed	-	-	-0.67	-	-	1.48	-	-	1.16
	-	-	(2.51)	-	-	(5.39)	-	-	(5.50)
Separated/ Divorced	-	-	4.49*	-	-	9.90*	-	-	9.11*
	-	-	(2.11)	-	-	(4.19)	-	-	(4.27)
Insurance Status (ref: Private)									
Medicaid	-	-	-1.3	-	-	-3.91	-	-	-5.72
	-	-	(3.12)	-	-	(5.41)	-	-	(5.36)
Medicare	-	-	5.94	-	-	9.58	-	-	9.17
	-	-	(3.13)	-	-	(4.91)	-	-	(4.95)
Uninsured	-	-	9.98*	-	-	19.8†	-	-	22.5†

	-	-	(4.43)	-	-	(7.37)	-	-	(7.17)
Annual Household Income (ref: <\$15,000)									
\$15,000-			3.96†			4.84			5.34
\$29,999	-	-	(1.34)	-	-	(4.86)	-	-	(4.93)
\$30,000 –			6.89‡			2.89			2.49
\$49,999	-	-	(1.94)	-	-	(5.45)	-	-	(5.60)
\$50,000+	-	-	5.74*	-	-	-2.61	-	-	-1.82
	-	-	(2.34)	-	-	(5.80)	-	-	(6.03)
<i>N</i>	2431	2404	2266	2431	2404	2266	2431	2404	2266

* p-value <.05; † p-value<.01; ‡ pvalue<.001