

**Appendix**  
**Treatment Costs of Breast Cancer Among Younger Women Aged 19–44 Years Enrolled in Medicaid**  
**Ekwueme et al.**

**Appendix Table 1.** Covariate Balance for the Non-Hispanic White Sample

Category	Variable	Breast cancer sample Mean	Comparison sample Mean	<i>p</i> -value
	Observations	2,509	2,509	
Monthly costs by service type in 2010 U.S.\$ (SD)		<b>\$3,414</b>	<b>\$1,258</b>	
	Monthly total costs	(\$5,625)	(\$2,751)	<0.01
		<b>\$1,385</b>	<b>\$180</b>	
	Monthly outpatient costs	(\$2,722)	(\$554)	<0.01
		<b>\$568</b>	<b>\$263</b>	
	Monthly inpatient costs	(\$3,352)	(\$1,576)	<0.01
		<b>\$601</b>	<b>\$279</b>	
	Monthly prescription drug costs	(\$1,439)	(\$525)	<0.01
		0.832	0.839	
Medicaid enrollment	Proportion of the year enrolled	(0.257)	(0.254)	0.27
Age (years)	19 to 23	1.1%	1.2%	
	24 to 28	3.4%	3.5%	
	29 to 33	7.9%	7.7%	
	34 to 38	22.0%	22.1%	
	39 to 44	65.6%	65.5%	0.998
Charlson Index	Charlson score of zero	82.9%	81.1%	
	Charlson score of one	13.0%	14.3%	
	Charlson score greater than one	4.1%	4.6%	0.37
Comorbidities	Cancer diagnosis	3.6%	4.2%	0.33
	Hypertension	8.5%	9.3%	0.43
	Dyslipidemia	5.5%	5.2%	0.73
	Pneumonia	3.3%	3.6%	0.71
	Asthma	6.4%	6.4%	0.92
	Depression	13.2%	15.6%	0.04
	Back problems	13.3%	14.3%	0.39
	Skin disorders	10.1%	10.2%	0.95
	Injuries	19.2%	20.0%	0.51
	Pregnancy	3.5%	3.7%	0.81
	Arthritis	8.6%	9.1%	0.64
	Mental health/substance abuse	21.7%	24.0%	0.09
	Mental retardation	1.2%	0.9%	0.52

*Note:* State dummies were included in the match. Boldface indicates statistical significance, The *p*=0.01 level indicates statistically significant differences between the breast cancer sample and the matched comparison sample was 0.995. Cancer diagnosis includes one of the following cancers: ovarian cancer, colorectal cancer, lung cancer, cervical cancer, skin cancer, leukemia and lymphoma.

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**Appendix Table 2.** Covariate Balance for the Non-Hispanic Black Sample

Category	Variable	Breast cancer sample Mean	Comparison sample Mean	<i>p</i> -value
	Observations	1,426	1,426	
Monthly costs by service type in 2012 U.S.\$ (SD)		<b>\$4,040</b>	<b>\$1,708</b>	
	Monthly total costs	(\$6,972)	(\$4,928)	<0.01
		<b>\$1,424</b>	<b>\$210</b>	
	Monthly outpatient costs	(\$2,746)	(\$562)	<0.01
		<b>\$1,078</b>	<b>\$677</b>	
	Monthly inpatient costs	(\$5,465)	(\$3,994)	0.03
		<b>\$530</b>	<b>\$237</b>	
	Monthly prescription drug costs	(\$1,160)	(\$585)	<0.01
Medicaid enrollment Age (years)	Proportion of the year enrolled	0.816	0.831	
	19 to 23	(0.273)	(0.266)	0.11
	24 to 28	0.4%	0.4%	
	29 to 33	4.0%	3.6%	
	34 to 38	9.7%	9.0%	
	39 to 44	23.1%	24.5%	
Charlson Index	Charlson score of zero	62.9%	62.5%	0.89
	Charlson score of one	78.4%	75.3%	
	Charlson score greater than one	13.6%	14.5%	
Comorbidities	Cancer diagnosis	8.0%	10.2%	0.17
	Hypertension	4.1%	4.2%	0.89
	Dyslipidemia	22.0%	24.2%	0.22
	Pneumonia	3.9%	4.5%	0.51
	Asthma	4.7%	5.2%	0.56
	Depression	6.3%	7.2%	0.43
	Back problems	8.3%	8.4%	0.91
	Skin disorders	9.0%	8.1%	0.47
	Injuries	9.1%	9.8%	0.62
	Pregnancy	17.7%	19.1%	0.42
	Arthritis	4.4%	4.9%	0.54
	Mental health/substance abuse	7.9%	7.5%	0.73
	Mental retardation	16.4%	18.3%	0.26
		1.5%	1.3%	0.77

*Note:* State dummies were included in the match. Boldface indicates statistical significance, The \*\**p*=0.01 level; \**p*=0.05 level indicates statistically significant differences between the breast cancer sample and the matched comparison sample was 0.999. Cancer diagnosis includes one of the following cancers: ovarian cancer, colorectal cancer, lung cancer, cervical cancer, skin cancer, leukemia and lymphoma.

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**Appendix Table 3.** Covariate Balance for the Hispanic Sample

Category	Variable	Breast cancer sample Mean	Comparison sample Mean	<i>p</i> -value
	Observations	1,043	1,043	
Monthly costs by service type in 2012 U.S.\$ (SD)		<b>\$3,278</b>	<b>\$835</b>	
	Monthly total costs	(\$6,740)	(\$2,774)	<0.01
		<b>\$1,344</b>	<b>\$143</b>	
	Monthly outpatient costs	(\$2,219)	(\$692)	<0.01
		<b>\$779</b>	<b>\$292</b>	
	Monthly inpatient costs	(\$3,047)	(\$1,801)	<0.01
		<b>\$361</b>	<b>\$152</b>	
	Monthly prescription drug costs	(\$1,088)	(\$483)	<0.01
Medicaid enrollment Age (years)		0.833	0.841	
	Proportion of the year enrolled	(0.254)	(0.252)	0.39
	19 to 23	1.0%	1.0%	
	24 to 28	3.3%	3.8%	
	29 to 33	10.9%	10.2%	
	34 to 38	23.8%	22.7%	
Charlson Index	39 to 44	61.1%	62.3%	0.93
	Charlson score of zero	86.1%	85.9%	
	Charlson score of one	10.6%	9.8%	
Comorbidities	Charlson score greater than one	3.3%	4.3%	0.52
	Cancer diagnosis	4.3%	4.9%	0.55
	Hypertension	5.9%	7.2%	0.31
	Dyslipidemia	4.3%	4.7%	0.74
	Pneumonia	2.7%	3.1%	0.64
	Asthma	2.2%	2.0%	0.76
	Depression	4.0%	3.9%	0.95
	Back problems	8.2%	8.7%	0.73
	Skin disorders	6.8%	6.4%	0.71
	Injuries	11.7%	12.1%	0.83
	Pregnancy	4.6%	4.3%	0.76
	Arthritis	7.4%	8.0%	0.66
	Mental health/substance abuse	7.7%	8.2%	0.70
Mental retardation	0.8%	0.6%	0.57	

*Note:* State dummies were included in the match. Boldface indicates statistical significance, The *p*=0.01 level indicates statistically significant differences between the breast cancer sample and the matched comparison sample was 0.998. Cancer diagnosis includes one of the following cancers: ovarian cancer, colorectal cancer, lung cancer, cervical cancer, skin cancer, leukemia and lymphoma.

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**Appendix Table 4.** Covariate Balance for the Non-Hispanic Other Sample

Category	Variable	Breast cancer sample Mean	Comparison sample Mean	<i>p</i> -value
	Observations	564	564	
Monthly costs by service type in 2012 U.S.\$ (SD)	Monthly total costs	<b>\$2,936</b> (\$4,388)	<b>\$1,274</b> (\$3,919)	<0.01
	Monthly outpatient costs	<b>\$1,409</b> (\$2,922)	<b>\$185</b> (\$809)	<0.01
	Monthly inpatient costs	\$446 (\$1,555)	\$380 (\$2,732)	0.59
	Monthly prescription drug costs	<b>\$452</b> (\$1,056)	<b>\$244</b> (\$546)	<0.01
	Medicaid enrollment Age (years)	Proportion of the year enrolled	0.859 (0.249)	0.865 (0.240)
	19 to 23	0.5%	0.5%	
	24 to 28	2.5%	2.9%	
	29 to 33	8.0%	9.4%	
	34 to 38	21.7%	21.1%	
	39 to 44	67.3%	66.2%	0.91
Charlson Index	Charlson score of zero	86.5%	84.4%	
	Charlson score of one	10.4%	12.3%	
	Charlson score greater than one	3.1%	3.3%	0.65
Comorbidities	Cancer diagnosis	3.6%	4.0%	0.74
	Hypertension	8.5%	9.4%	0.65
	Dyslipidemia	3.3%	3.7%	0.76
	Pneumonia	3.3%	3.5%	0.87
	Asthma	3.6%	3.1%	0.68
	Depression	8.6%	8.8%	0.92
	Back problems	9.9%	8.8%	0.61
	Skin disorders	5.9%	5.9%	0.97
	Injuries	13.9%	12.3%	0.49
	Pregnancy	2.3%	2.8%	0.64
	Arthritis	7.8%	8.2%	0.84
	Mental health/substance abuse	15.0%	14.3%	0.75
	Mental retardation	0.8%	1.8%	0.21

*Note:* State dummies were included in the match. Boldface indicates statistical significance, The  $p=0.01$  level indicates statistically significant differences between the breast cancer sample and the matched comparison sample was 0.998. Cancer diagnosis includes one of the following cancers: ovarian cancer, colorectal cancer, lung cancer, cervical cancer, skin cancer, leukemia and lymphoma.