Appendix Table 1. Healthy Days For All Races/Ethnicities

	Diagnosed at age 18 to 44			Diagnosed at age 45 or older		
<b>Health Days measure</b>	<b>Breast cancer</b>	No cancer	Difference	<b>Breast cancer</b>	No cancer	Difference
Overall healthy days <sup>a</sup>	21.52	23.20	-1.68*	22.29	23.20	-0.91*
Physically healthy days	24.19	25.80	-1.61*	24.13	25.80	<b>-1.67</b> *
Mentally healthy days	25.50	26.30	-0.80*	26.96	26.30	0.66*

*Note:* Boldface indicates statistically significant (p<0.05) difference between women with and without breast cancer. \* indicates statistically significant (p<0.01) difference between women with and without breast cancer.

<sup>&</sup>lt;sup>a</sup> Overall healthy days = 30 – (physically unhealthy days) – (mentally unhealthy days); values <0 are set to 0. This measure is used in the health state utility value from Jia and Lubetkin.<sup>34</sup>

Appendix Table 2. Mapped HSU Regression Analysis<sup>a</sup>

	All races/ethnicities		White	
	Diagnosed at age	Diagnosed at age	Diagnosed at age	Diagnosed at age
Variable	18 to 44	45 or older	18 to 44	45 or older
Breast cancer	-0.116* (0.018)	-0.070* (0.007)	-0.126* (0.021)	-0.072* (0.008)
Years since breast cancer diagnosis				
2 to 4 years	0.065* (0.023)	0.038* (0.008)	0.084* (0.025)	0.041* (0.009)
5 to 10 years	0.080* (0.021)	0.056* (0.008)	0.090* (0.024)	0.057* (0.009)
More than 10 years	0.091* (0.019)	0.049* (0.008)	0.101* (0.022)	0.049* (0.009)
Race/ethnicity				
White	0.007* (0.002)	0.005* (0.002)	-	-
African American, non-Hispanic	0.013* (0.002)	0.011* (0.002)	-	-
Other, non-Hispanic	0.002 (0.002)	Ref	-	-
Hispanic	Ref	-0.002 (0.002)	-	-
Age	-0.003* (0.0001)	-0.003* (0.0001)	-0.002* (0.0001)	-0.002* (0.0001)
Age squared	1.9E-5* (1.3E-6)	1.9E-5* (1.2E-6)	1.3E-5* (1.4E-6)	1.2E-5* (1.4E-6)
Household income <\$35,000/year	-0.055* (0.001)	-0.055* (0.001)	-0.057* (0.001)	-0.057* (0.001)
BMI	-0.001 (0.0004)	-0.001 (0.0004)	8.7E-5 (0.0005)	0.0001 (0.001)
BMI squared	4.1E-5* (6.4E-6)	-4.1E-5* (6.4E-6)	-5.5E-5* (8.1E-6)	-5.5E-5* (8.1E-6)
Education (less than high school	-0.040* (0.002)	-0.040* (0.002)	-0.047* (0.002)	-0.046* (0.002)
graduate)				
Currently married	0.009* (0.001)	0.009* (0.001)	0.009* (0.001)	0.009* (0.001)
Smokes some days	-0.042* (0.002)	-0.042* (0.002)	-0.039* (0.002)	-0.039* (0.002)
Smokes every day	-0.059* (0.001)	-0.059* (0.001)	-0.059* (0.001)	-0.059* (0.001)
Asthma	-0.064* (0.001)	-0.063* (0.001)	-0.063* (0.002)	-0.062* (0.001)
Diabetes	-0.058* (0.001)	-0.058* (0.001)	-0.057* (0.002)	-0.058* (0.002)
Cardiovascular disease	-0.094* (0.002)	-0.093* (0.002)	-0.091* (0.003)	-0.090* (0.002)
Stroke	-0.074* (0.003)	-0.074* (0.003)	-0.072* (0.003)	-0.071* (0.003)
2009 BRFSS	-0.004* (0.001)	-0.004* (0.001)	-0.004* (0.001)	-0.003* (0.001)
Constant	1.051* (0.007)	1.051* (0.007)	1.025* (0.008)	1.023* (0.008)
N	194,230	198,880	150,948	155,022
R-squared	0.194	0.194	0.191	0.191

	African A	African American		Hispanic	
	Diagnosed at age	Diagnosed at age	Diagnosed at age	Diagnosed at age	
Variable	18 to 44	45 or older	18 to 44	45 or older	
Breast cancer	-0.057 (0.061)	-0.051 (0.023)	-0.096 (0.059)	-0.063 (0.031)	
Years since breast cancer diagnosis					
2 to 4 years	0.090 (0.067)	0.016 (0.030)	-0.125 (0.087)	0.004 (0.041)	
5 to 10 years	0.025 (0.068)	0.026 (0.027)	0.123 (0.066)	0.042 (0.038)	
More than 10 years	0.031 (0.065)	0.071* (0.028)	0.072 (0.066)	0.027 (0.041)	
Age	-0.004* (0.0005)	-0.004* (0.0004)	-0.005* (0.001)	-0.005* (0.001)	
Age squared	2.7E-5* (4.5E-6)	2.7E-5* (4.4E-6)	3.2E-5* (5.2E-6)	3.1E-5* (5.1E-6)	
Household income <\$35,000/year	-0.050* (0.003)	-0.051* (0.003)	-0.047* (0.003)	-0.048* (0.003)	
BMI	-0.001 (0.001)	-0.001 (0.001)	-0.004* (0.001)	-0.004* (0.001)	
BMI squared	2.5E-5 (1.5E-5)	-2.4E-5 (1.5E-5)	1.2E-5 (2.1E-5)	1.3E-5 (2.1E-5)	
Education (less than high school	-0.040* (0.004)	-0.040* (0.004)	-0.024* (0.004)	-0.024* (0.004)	
graduate)	0.007 (0.003)	0.007 (0.003)	0.0124 (0.002)	0.0134 (0.003)	
Currently married	0.006 (0.003)	0.006 (0.003)	0.012* (0.003)	0.013* (0.003)	
Smokes some days	<b>-0.047*</b> ( <b>0.006</b> )	-0.048* (0.006)	<b>-0.049*</b> ( <b>0.007</b> )	<b>-0.048*</b> ( <b>0.007</b> )	
Smokes every day	-0.055* (0.004)	-0.055* (0.004)	-0.060* (0.006)	-0.060 (0.006)	
Asthma	<b>-0.056*</b> ( <b>0.004</b> )	-0.056* (0.004)	-0.072* (0.005)	-0.072* (0.005)	
Diabetes	-0.054* (0.004)	-0.052* (0.004)	-0.060* (0.005)	-0.059* (0.005)	
Cardiovascular disease	<b>-0.100*</b> ( <b>0.007</b> )	<b>-0.097*</b> ( <b>0.007</b> )	-0.103* (0.009)	-0.101* (0.009)	
Stroke	<b>-0.074*</b> ( <b>0.007</b> )	<b>-0.074*</b> ( <b>0.007</b> )	<b>-0.081*</b> ( <b>0.011</b> )	-0.081* (0.011)	
2009 BRFSS	0.001 (0.004)	0.001 (0.004)	-0.002 (0.004)	-0.002 (0.004)	
Constant	1.083* (0.020)	1.084* (0.019)	1.161* (0.023)	1.162* (0.023)	
N	17,997	18,252	14,188	14,341	
R-squared	0.188	0.188	0.195	0.197	

*Note:* Boldface indicates statistical significance (p<0.05). \* indicates statistical significance (p<0.01). SEs are robust. HSU, health state utility.

Appendix Table 3. Marginal Effects of Breast Cancer From Regression Analysis: Pooled Across Race/Ethnicity<sup>a</sup>

	Overall he	ealthy days	Physically healthy days		
Variable	Diagnosed at age 18 to 44	Diagnosed at age 45 or older	Diagnosed at age 18 to 44	Diagnosed at age 45 or older	
Breast cancer + years since diagnosis					
0 to 1 year	<b>-6.865*</b> (1.125)	-3.495** (0.429)	<b>-6.836*</b> ( <b>1.087</b> )	<b>-3.672</b> *(**) ( <b>0.408</b> )	
2 to 4 years	-2.123* (0.813)	-1.147* (0.295)	-1.753* (0.665)	-0.996* (0.262)	
5 to 10 years	-1.237 (0.571)	-0.498 (0.227)	-0.288(0.423)	-0.331(0.197)	
More than 10 years	-1.326* (0.350)	-1.000* (0.237)	-1.337* (0.313)	-0.905* (0.218)	
N	194,896	199,575	196,650	201,383	
R-squared	0.123	0.122	0.125	0.125	
	Mentally h	ealthy Days			
	Diagnosed at age	Diagnosed at age			
Variable	18 to 44	45 or Older			
Breast cancer + years since diagnosis					
0 to 1 year	-1.929 (0.861)	-0.806* (0.292)			
2 to 4 years	-0.990(0.670)	-0.420(0.212)			
5 to 10 years	-0.925(0.488)	-0.209 (0.159)			
More than 10 years	-0.729*(0.271)	-0.301 (0.145)			
N	197,265	202,058			
R-squared	0.081	0.080			

*Note:* Boldface indicates statistical significance (p<0.05). \*p<0.01. \*\*Chow test indicates statistically significant differences (p<0.05) between women diagnosed at age 18 to 44 and women diagnosed at age 45 or older. No Chow test was significant at the p<0.01 level. a Other covariates included in the regression were: race/ethnicity (pooled analysis), age, age squared, household income <\$35,000/year, BMI, BMI squared, education (less than high school graduate), currently married, smokes some days, smokes every day, asthma, diabetes, cardiovascular disease, stroke, and an indicator for 2009 BRFSS. Full regression results are available in the Appendix. SEs are robust.

Appendix Table 4. Marginal Effects of Breast Cancer on Mapped HSU From Regression Analysis Using Matched Samples<sup>a</sup>

	All races/	ethnicities	White	
Variable	Diagnosed at age 15 to 44	Diagnosed at age 45 or older	Diagnosed at age 15 to 44	Diagnosed at age 45 or older
Breast cancer + years since diagnosis				
0 to 1 year	-0.103 (0.019)	<b>-0.076</b> ( <b>0.007</b> )	-0.112 (0.022)	<b>-0.079</b> ( <b>0.008</b> )
2 to 4 years	-0.023(0.015)	-0.039 (0.005)	-0.013(0.016)	-0.037 (0.005)
5 to 10 years	-0.017(0.011)	-0.018 (0.004)	-0.018(0.012)	-0.018 (0.004)
More than 10 years	-0.046 (0.006)	-0.018** (0.004)	-0.042(0.007)	-0.018** (0.004)
N (unweighted)	8,442	36,300	6,798	31,218
R-squared	0.012	0.056	0.011	0.031
	African American		Hispanic	

	African A	American	Hispanic		
Variable	Diagnosed at age 15 to 44	Diagnosed at age 45 or older	Diagnosed at age 15 to 44	Diagnosed at age 45 or older	
Breast cancer + years since diagnosis					
0 to 1 year	-0.052(0.084)	-0.039 (0.024)	-0.052(0.060)	-0.051 (0.034)	
2 to 4 years	0.068 (0.026)	-0.043** (0.021)	-0.184 (0.068)	-0.079 (0.030)	
5 to 10 years	-0.015 (0.034)	-0.019 (0.015)	0.068 (0.037)	-0.037**(0.024)	
More than 10 years	-0.054 (0.023)	0.002** (0.016)	-0.060(0.037)	-0.034(0.030)	
N (unweighted)	738	2,250	384	1,302	
R-squared	0.170	0.004	0.031	0.010	

*Note:* Boldface indicates statistical significance (p<0.05). \*\*Chow test indicates statistically significant differences (p<0.05) between women diagnosed at age 15 to 44 and women diagnosed at age 45 or older. HSU, health state utility.

<sup>&</sup>lt;sup>a</sup> Other covariates included in the regressions to correct for covariate imbalance were: race/ethnicity, age, age squared, household income <\$35,000/year, currently married, asthma, and an indicator for 2009 BRFSS (all races/ethnicities age 15-44); race/ethnicity, household income <\$35,000/year, education (less than high school graduate), currently married, smokes some days, smokes every day, cardiovascular disease, and an indicator for 2009 BRFSS (all races/ethnicities age 45 or older); age, age squared, household income <\$35,000/year, currently married, asthma, and an indicator for 2009 BRFSS (white age 15-44); household income <\$35,000/year, currently married, cardiovascular disease, and an indicator for 2009 BRFSS (white age 45 or older); an indicator for 2009 BRFSS (African American age 45 or older); household income <\$35,000/year, currently married, smokes some days, smokes every day, and an indicator for 2009 BRFSS (Hispanic age 15-44); and currently married, diabetes, and an indicator for 2009 BRFSS (Hispanic age 45 or older). Full regression results are available in the Appendix. SEs are robust but do not account for uncertainty in propensity score matching.