Supplementary Online Content

Hu X, Chehal PK, Kaplan C, et al. Characterization of clinical symptoms by race among women with early-stage, hormone receptor–positive breast cancer before starting chemotherapy. *JAMA Netw Open.* 2021;4(6):e2112076. doi:10.1001/jamanetworkopen.2021.12076

eFigure. Sample Selection Flow Chart

eTable 1. List of Individual Symptoms Used for Four Compound Scores

eTable 2. Patient Characteristics of Medicare Subsample

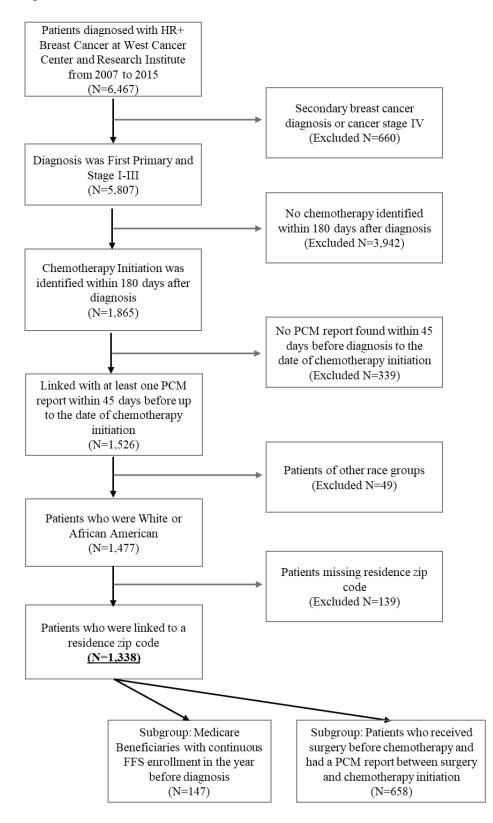
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eTable 5. Oaxaca Decomposition of Race Differences in Symptom Index Scores of Patients Who Received Surgery Before Chemotherapy and Had a PCM Report Between Surgery and Chemotherapy Initiation

This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure. Sample Selection Flow Chart



Compound Score	General Physical Symptoms	Treatment Adverse Effects	Acute Distress	Despair
	1. Fatigue, tiredness, or weakness	1. Change in weight	1. I cry a lot or feel like crying	1. I feel hopeless
	2. Rash or dry skin or itching	2. Hair loss	2. I am worried	2. I have lost interest in people that I used to want to be around
	3. Trouble focusing or concentrating	3. Nausea or vomiting	3. I feel nervous, tense, or anxious	3. I feel helpless
	4. Daytime sleepiness	4. Dry mouth	4. I am sad or depressed	4. I think I would be better off dead
	5. Physical pain	5. Change in the taste of food		5. I feel guilty
Individual Item	6. Sweating	6. Trouble with bowel movements (diarrhea or constipation)		6. I have lost interest in things that I used to want to do
	7. Trouble breathing or coughing	7. Sore throat or trouble swallowing		7. I feel worthless
	8. Reduced sexual enjoyment, interest, or performance	8. Change in appetite		
	9. Trouble sleeping			
	10. Problems with urination			
	11. Numbness or tingling			

Characteristics	Patients, No. (%	P Value ^a			
	Total	Black	White		
	(N=147)	(n=32)	(n=115)		
Age, y					
Mean (SD)	70.8 (8.5)	65.3 (11.1)	72.3 (6.9)	0.001	
Median (IQR)	71.0 (69.0-76.0)	69.0 (57.5-72.5)	72.0 (69.0-77.0)		
Stage at diagnosis				0.81	
Stage I	40 (27.2%)	9 (28.1%)	31 (27.0%)		
Stage II	67 (45.6%)	13 (40.6%)	54 (47.0%)		
Stage III	40 (27.2%)	10 (31.3%)	30 (26.1%)		
Comorbidities				0.26	
No comorbidity	56 (38.1%)	11 (34.4%)	45 (39.1%)		
One comorbidity	44 (29.9%)	7 (21.9%)	37 (32.2%)		
More than 1 comorbidity	47 (32.0%)	14 (43.8%)	33 (28.7%)		
Household income at the neighbor	orhood level, \$				
Mean (SD)	48643 (23271)	31170 (14984)	53505 (22868)	<.001	
Median (IQR)	40221 (32531-	29193 (25989-	50701 (34072-		
	64209)	34128)	64582)	<.001	
Adults with high school degree a	t the neighborhood	level, %			
Mean (SD)	82.5 (9.1)	74.6 (7.0)	84.7 (8.4)	<.001	
Median (IQR)	82.7 (75.6-90.7)	75.6 (70.6- 76.8)	86.0 (77.8-91.5)	<.001	
State of residence				0.61	
Arkansas	7 (4.8%)	1 (3.1%)	6 (5.2%)		
Mississippi	55 (37.4%)	15 (46.9%)	40 (34.8%)		
Tennessee	82 (55.8%)	16 (50.0%)	66 (57.4%)		
Other	3 (2.0%)	0 (0.0%)	3 (2.6%)		
Time between survey and	6.7 (9.9)	5.6 (8.9)	7.0 (10.2)	0.51	
chemotherapy initiation, mean			· · · ·		
(SD), d					
Time between diagnosis and	69.2 (34.3)	65.3 (41.7)	70.3 (32.1)	0.47	
chemotherapy initiation, mean					
(SD), d					
Any Severity Symptoms, mean	12.5 (10.0)	12.4 (10.8)	12.5 (9.8)	0.97	
(SD), No.					

eTable 2. Patient Characteristics of Medicare Subsample

Abbreviation: IQR=Interquartile Range; SD=Standard Deviation

^a The t test was used for mean comparisons, the Wilcoxon rank-sum test was used for median comparisons, and the χ^2 test or the Fisher exact test 2 were used for categorical measures

Characteristics	Patients, No. (%)	P Value ^a		
	Total (N=658)Black (n=210)White (n=4)		White (n=448)	
Age, y				
Mean (SD)	56.2 (11.9)	53.0 (10.8)	57.7 (12.1)	<.001
Median (IQR)	56.0 (48.0, 65.0)	53.0 (46.0, 61.0)	57.0 (49.0, 67.0)	<.001
Stage at diagnosis				0.075
Stage I	238 (36.2%)	63 (30.0%)	175 (39.1%)	
Stage II	304 (46.2%)	105 (50.0%)	199 (44.4%)	
Stage III	116 (17.6%)	42 (20.0%)	74 (16.5%)	
Household income at the neighborh	ood level, \$			
Mean (SD)	52432 (23790)	41177 (18923)	57708 (24021)	<.001
Median (IQR)	48234 (33295- 64985)	34128 (29066- 51295)	51656 (36993- 70541)	<.001
Adults with high school degree at th	ne neighborhood lev	vel, %	•	•
Mean (SD)	84.6 (9.0)	81.0 (8.5)	86.3 (8.7)	<.001
Median (IQR)	86.0 (76.9- 92.8)	79.6 (75.6- 87.1)	87.2 (79.7- 94.3)	<.001
State or residence				<.001
Arkansas	25 (3.8%)	5 (2.4%)	20 (4.5%)	
Mississippi	170 (25.8%)	34 (16.2%)	136 (30.4%)	
Tennessee	446 (67.8%)	170 (81.0%)	276 (61.6%)	
Other	17 (2.6%)	1 (0.5%)	16 (3.6%)	
Time between survey and chemotherapy initiation, Mean (SD), d	5.9 (8.6)	6.0 (8.8)	5.8 (8.5)	0.73
Time between diagnosis and chemotherapy initiation, mean (SD), d	73.7 (28.9)	79.5 (31.4)	71.1 (27.2)	0.001
Time between surgery and survey, mean (SD), d	42.1 (25.5)	45.5 (27.2)	40.5 (24.5)	0.019
Any Severity Symptoms, mean (SD), No.	11.7 (9.3)	12.0 (9.5)	11.6 (9.2)	0.61

eTable 3. Patient Characteristics of Patients Who Received Surgery Before Chemotherapy and Had a PCM Report Between Surgery and Chemotherapy Initiation

Abbreviation: IQR=Interquartile Range; SD=Standard Deviation

^a The t test was used for mean comparisons, the Wilcoxon rank-sum test was used for median comparisons, and the χ^2 test or the Fisher exact test 2 were used for categorical measures

	Patients, No.	Unadjusted mean (S	Crude net Difference	Explained	Unexplained	
Symptom Index Scores		White patients	Black patients	(SE) in mean scores ^a	Difference (SE) ^a	Difference (SE)
(A) Without Controlling for	Comorbiditie	S				
Cara and Dhave and Samutane	147	44.6 (0.7) ^b	43.7 (1.7) ^b	0.9 (1.8)	-3.3 (1.3) ^b	4.2 (2.2)
General Physical Symptoms Treatment Adverse Effects	146	44.5 (0.5) ^b	45.2 (1.2) ^b	-0.8 (1.3)	-1.0 (0.9)	0.2 (1.6)
Acute Distress	105	49.3 (1.3) ^b	45.7 (2.1) ^b	3.6 (2.5)	-3.3 (2.4)	6.9 (3.5) ^b
Despair	73	47.3 (1.2) ^b	46.5 (1.9) ^b	0.8 (2.2)	-6.1 (2.9) ^b	6.9 (3.7)
(B) Controlling for Comorb	idities					
General Physical Symptoms	147	44.6 (0.7) ^b	43.7 (1.7) ^b	0.9 (1.9)	-3.8 (1.4) ^b	4.7 (2.2) ^b
Treatment Adverse Effects	146	44.5 (0.5) ^b	45.2 (1.2) ^b	-0.8 (1.3)	-1.4 (1.1)	0.6 (1.7)
Acute Distress	105	49.3 (1.3) ^b	45.7 (2.2) ^b	3.6 (2.5)	-3.3 (2.5)	6.9 (3.6)
Despair	73	47.3 (1.2) ^b	46.5 (2.0) ^b	0.8 (2.3)	-6.4 (3.1) ^b	7.2 (3.9)

eTable 4. Oaxaca Decomposition of Race Differences in Symptom Index Scores of Medicare Subsample

^a Robust SEs in parentheses. Analysis controlled for all covariates in the whole sample analysis as well as comorbidities (in panel B).

^b P <0.05

eTable 5. Oaxaca Decomposition of Race Differences in Symptom Index Scores of Patients Who Received Surgery Before Chemotherapy and Had a PCM Report Between Surgery and Chemotherapy Initiation

	Patients, No.	Unadjusted mean (S	Crude net Difference	Explained	Unexplained	
Symptom Index Scores		White patients	Black patients	(SE) in mean scores ^a	Difference (SE) ^a	Difference (SE)
(C) Without Controlling for	Days from Su	rgery to Survey				
General Physical Symptoms	658	44.7 (0.4) ^b	44.5 (0.6) ^b	0.1 (0.7)	$-1.6(0.5)^{b}$	1.7 (0.9) ^b
Treatment Adverse Effects	658	43.7 (0.2) ^b	44.7 (0.4) ^b	-0.9 (0.4) ^b	-0.6 (0.3) ^b	-0.3 (0.5)
Acute Distress	513	50.9 (0.6) ^b	48.3 (0.9) ^b	2.6 (1.1) ^b	-2.5 (0.7) ^b	5.0 (1.3) ^b
Despair	396	48.4 (0.5) ^b	47.8 (0.7) ^b	0.7 (0.9)	-2.0 (0.6) ^b	2.7 (1.1) ^b
(D) Controlling for Days fro	m Surgery to S	Survey				
General Physical Symptoms	658	44.7 (0.4) ^b	44.5 (0.6) ^b	0.1 (0.7)	$-1.6(0.5)^{b}$	1.7 (0.9) ^b
Treatment Adverse Effects	658	43.7 (0.2) ^b	44.7 (0.4) ^b	-0.9 (0.4) ^b	-0.6 (0.3) ^b	-0.3 (0.5)
Acute Distress	513	50.9 (0.6) ^b	48.3 (0.9) ^b	2.6 (1.1) ^b	-2.4 (0.7) ^b	5.0 (1.3) ^b
Despair	396	48.4 (0.5) ^b	47.8 (0.8) ^b	0.7 (0.9)	-2.0 (0.6) ^b	2.7 (1.1) ^b

^a Robust SEs in parentheses. Analysis controlled for all covariates in the whole sample analysis as well as time from surgery to survey (in panel D).

 $^{\rm b}P < 0.05$