

Supplemental Online Content

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eTable 1. Characteristics of the 9,941 Patients Who Report At Least One Patient-Reported Outcomes Survey during the period on treatment to end of treatment assessment

eTable 2. Detailed Evaluation of Concordance Between Physician and Patient Ratings of Pain for 37,248 Paired Observations of Pain

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

eTable 1: Characteristics of the 9,941 Patients Who Report At Least One Patient-Reported Outcomes Survey during the period on treatment to end of treatment assessment.

Variable/Level	All (N=9,941) N (column %)	At least one substantial symptom reported (N=5,783) N (column %) [row %]	No substantial symptoms reported (N=4,158) N (column %) [row %]
Age Group:			
<50	1595 (16.0)	1146 (19.8) [71.8]	449 (10.8) [28.2]
50-59	2874 (28.9)	1881 (32.5) [65.4]	993 (23.9) [34.6]
60-69	3353 (33.7)	1791 (31.0) [53.4]	1562 (37.6) [46.6]
70+	2119 (21.3)	965 (16.7) [45.5]	1154 (27.8) [54.5]
BMI Category			
Underweight <18.5	166 (1.7)	98 (1.7) [59.0]	68 (1.6) [41.0]
Normal 18.5-<25	2252 (22.7)	1188 (20.5) [52.8]	1064 (25.6) [47.2]
Overweight 25-<30	3024 (30.4)	1667 (28.8) [55.1]	1357 (32.6) [44.9]
Obesity I 30-<35	2286 (23.0)	1329 (23.0) [58.1]	957 (23.0) [41.9]
Obesity II 35-<40	1239 (12.5)	791 (13.7) [63.8]	448 (10.8) [36.2]
Obesity III >40	974 (9.8)	710 (12.3) [72.9]	264 (6.4) [27.1]
Racial group:			
Black	1655 (16.6)	1118 (19.3) [67.6]	537 (12.9) [32.4]
White	7925 (79.7)	4456 (77.1) [56.2]	3469 (83.4) [43.8]
Other	361 (3.6)	209 (3.6) [57.9]	152 (3.6) [42.1]
Supraclavicular field used:			
No reported	116 (1.2)	70 (1.2) [60.3]	46 (1.1) [39.7]
No	8721 (87.7)	4960 (85.8) [56.9]	3761 (90.5) [43.1]
Yes	1104 (11.1)	753 (13.0) [68.2]	351 (8.4) [31.8]
Fractionation:			
Not reported	162 (1.6)	93 (1.6) [57.4]	69 (1.7) [42.6]
Conventional	4449 (44.8)	3029 (52.4) [68.1]	1420 (34.2) [31.9]
Hypofractionated	5330 (53.6)	2661 (46.0) [49.9]	2669 (64.2) [50.1]
Boost used:			
Not reported	162 (1.6)	93 (1.6) [57.4]	69 (1.7) [42.6]
No	1678 (16.9)	722 (12.5) [43.0]	956 (23.0) [57.0]
Yes	8101 (81.5)	4968 (85.9) [61.3]	3133 (75.3) [38.7]
Academic treatment facility:			
No	6359 (64.0)	3667 (63.4) [57.7]	2692 (64.7) [42.3]
Yes	3582 (36.0)	2116 (36.6) [59.1]	1466 (35.3) [40.9]
Gender of treating provider:			
Female	3367 (33.9)	2033 (35.2) [60.4]	1334 (32.1) [39.6]
Male	6574 (66.1)	3750 (64.8) [57.0]	2824 (67.9) [43.0]

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Moderate/Severe Breast pain			
No	6505 (65.4)	2347 (40.6) [36.1]	4158 (100.0) [63.9]
Yes	3436 (34.6)	3436 (59.4) [100]	0
Bother itching			
No	6900 (69.4)	2742 (47.4) [39.7]	4158 (100.0) [60.3]
Yes	3041 (30.6)	3041 (52.6) [100]	0
Bother swelling			
No	7578 (76.2)	3420 (59.1) [45.1]	4158 (100.0) [54.9]
Yes	2363 (23.8)	2363 (40.9) [100]	0
Fatigue			
No	7732 (77.8)	3574 (61.8) [46.2]	4158 (100.0) [53.8]
Yes	2209 (22.2)	2209 (38.2) [100]	0

a Racial identities are based on self-report; Black includes patients who indicated “Black” or “African American”; Other includes all other racial identities.

eTable 2: Detailed Evaluation of Concordance Between Physician and Patient Ratings of Pain for 37,248 Paired Observations of Pain*

Physician CTCAE Breast Pain	Patient Breast Pain Rating (maximum of the BPI questions):				
	N, mean (median) [IQR]	No Pain (0): N (%)	Mild Pain (1-3): N (%)	Moderate Pain (4-6): N (%)	Severe Pain (7-10): N (%)
0	21027, 0.80 (0) [0-1]	12896 (61.3)	6973 (33.2)	884 (4.2)	274 (1.3)
1	14132, 2.63 (2) [1-4]	1596 (11.3)	8681 (61.4)	2919 (20.7)	936 (6.6)
2	1965, 5.92 (6) [4-8]	44 (2.2)	270 (13.7)	766 (39.0)	885 (45.0)
3	124, 8.11 (9) [7.5-10]	1 (0.8)	6 (4.8)	12 (9.7)	105 (84.7)

*Using the 37,593 paired observation timepoints between patient assessments and physician assessments of acute toxicity, there are 37,248 paired measurements for pain (patient modified brief pain inventory, 0 – 10 scale and physician CTCAE Grade 0-3 Breast Pain). The patient pain score has been summarized by the level of physician assessment in the table. As detailed in the text, there is a strong association ($P < 0.001$) between physician and patient rating. The rank correlation (Spearman) between physician CTCAE and the patient score groups as above (No Pain, Mild, Moderate, Severe) is 0.58, suggesting a strong positive correlation as would be expected a priori. Nevertheless, a substantial proportion of patients who experienced substantial symptoms had under-recognition, as detailed in the manuscript.