

On-line Only Supplemental Material for:

Validity and Reliability of the U.S. National Cancer Institute's Patient-Reported Outcomes Version of the Common Terminology Criteria for Adverse Events (PRO-CTCAE)

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eFigure 3. Mean PRO-CTCAE Item Scores by Eastern Cooperative Oncology Group (ECOG) Performance Status Score, for PRO-CTCAE Frequency, Severity, and Interference Items at Visit 1

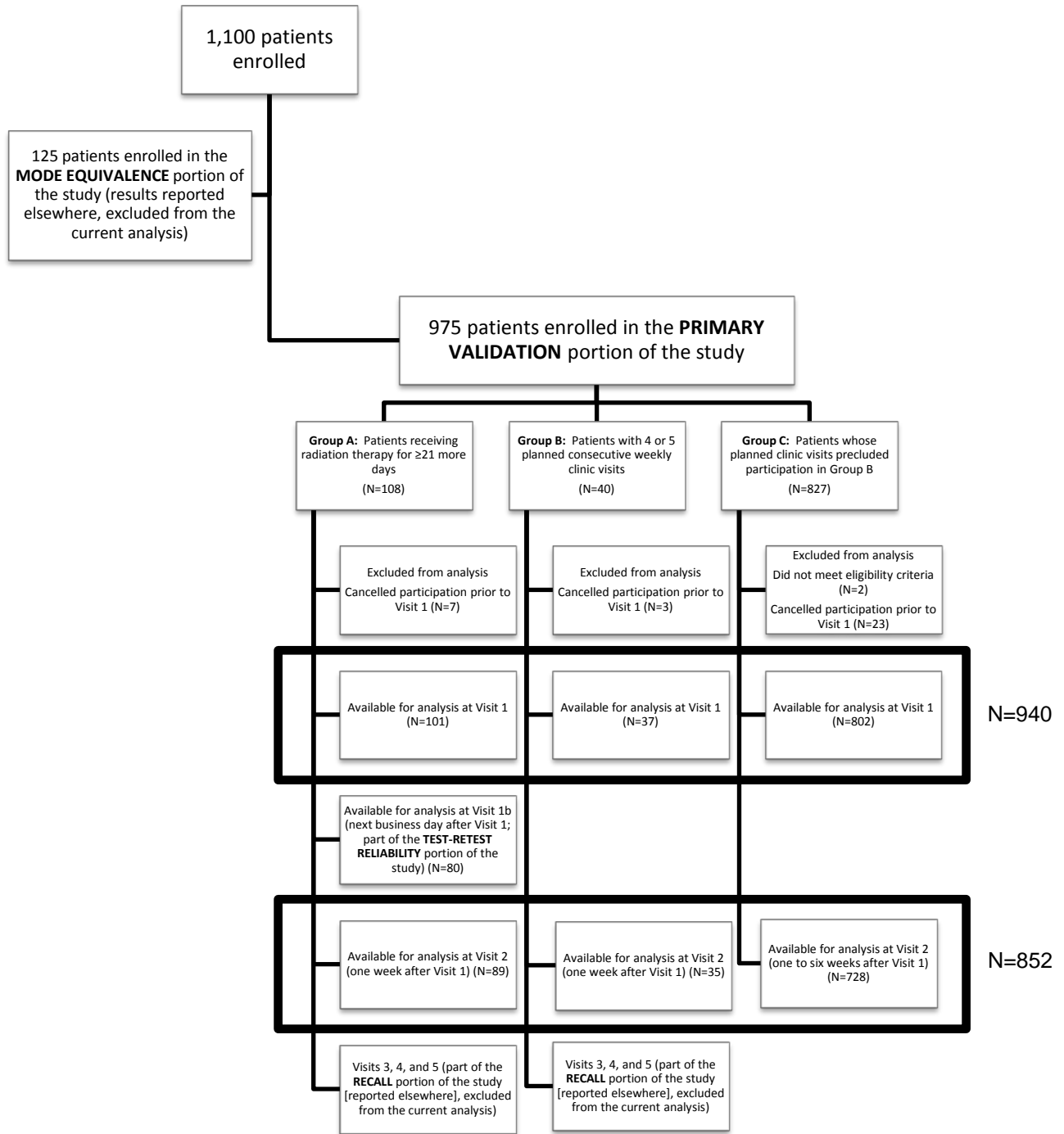
eTable 1. PRO-CTCAE Symptomatic AEs by Electronic Survey

eTable 2. PRO-CTCAE Symptomatic AEs by Analysis

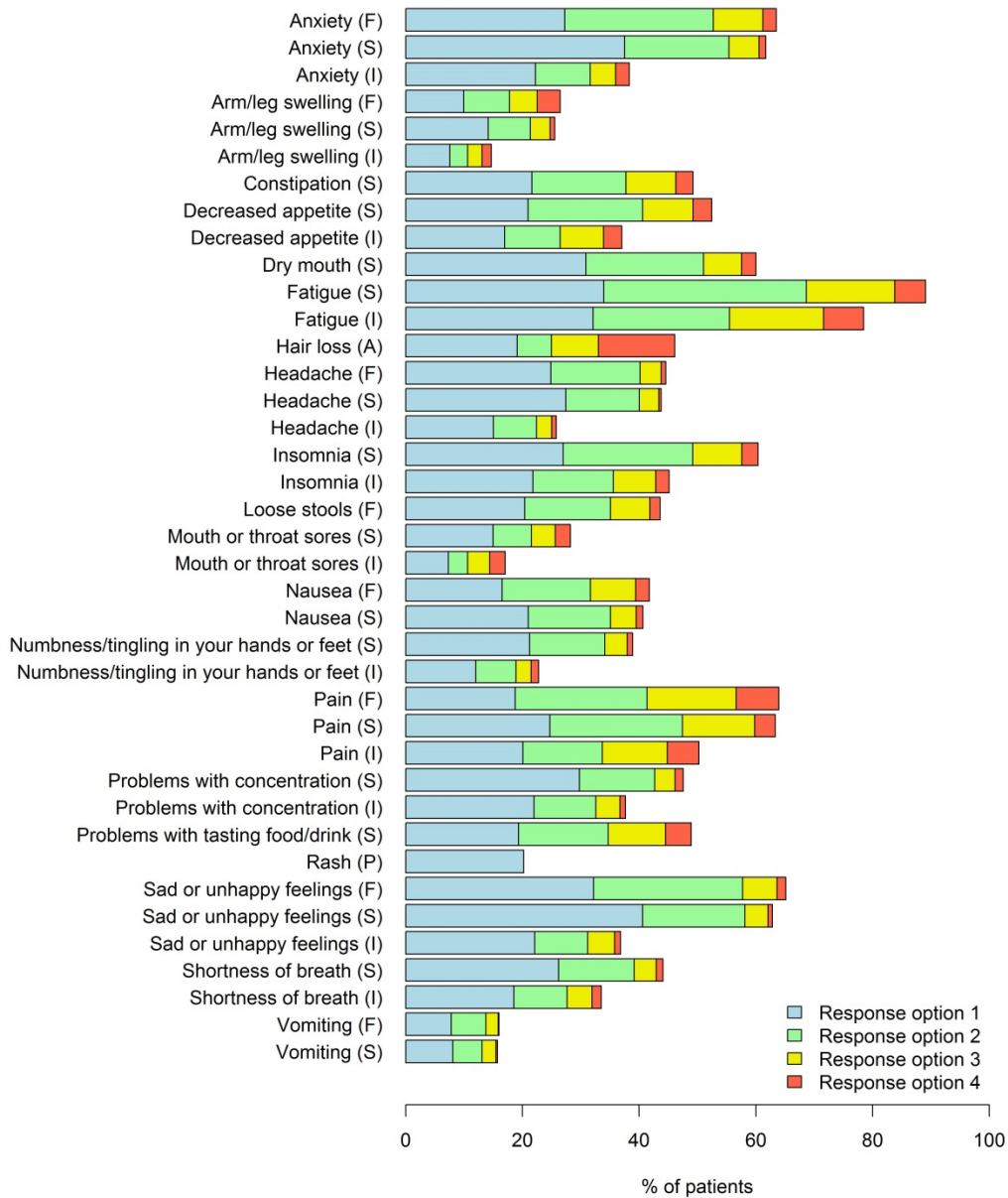
eTable 3. Construct Validity of PRO-CTCAE Items (all anchors)

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eFigure 1. Participant Flow Diagram (N=1,100)



eFigure 2. Distribution of PRO-CTCAE Item Scores at Visit 1†



Abbreviations: PRO-CTCAE, Patient-Reported Outcomes version of the Common Terminology Criteria for Adverse Events; F, Frequency; S, Severity; I, Interference with usual or daily activities; A, Amount; P, Presence

†eFigure 2 includes items for the 20 “core” symptomatic AEs selected a priori based on high prevalence in prior National Cancer Institute sponsored clinical trials.

Response options:

Frequency: 0=“Never”, 1=“Rarely”, 2=“Occasionally”, 3=“Frequently”, 4=“Almost constantly”

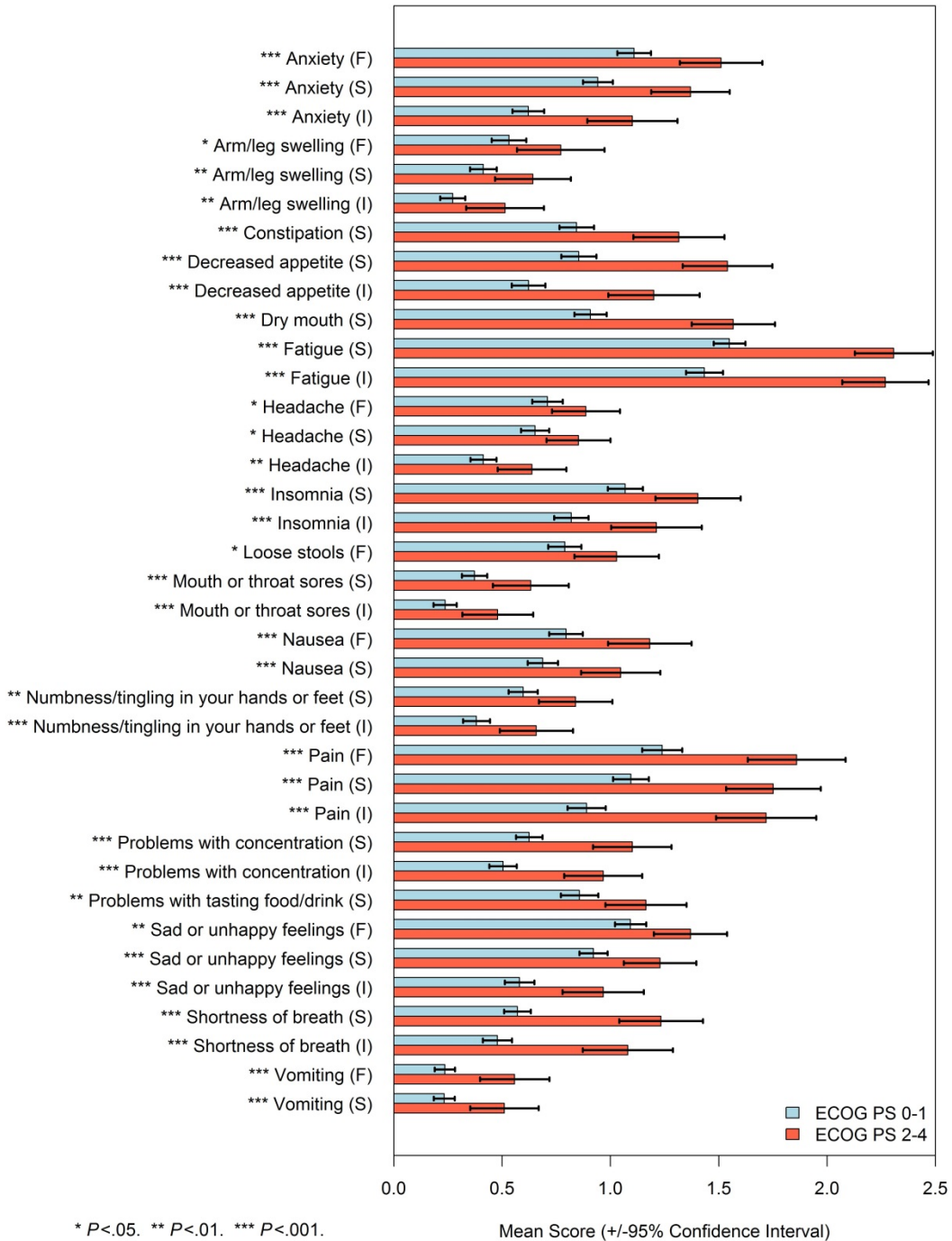
Severity: 0=“None”, 1=“Mild”, 2=“Moderate”, 3=“Severe”, 4=“Very severe”

Interference: 0=“Not at all”, 1=“A little bit”, 2=“Somewhat”, 3=“Quite a bit”, 4=“Very much”

Presence: 0=“No”, 1=“Yes”

Amount: 0=“Not at all”, 1=“A little bit”, 2=“Somewhat”, 3=“Quite a bit”, 4=“Very much”

eFigure 3. Mean PRO-CTCAE Item Scores by Eastern Cooperative Oncology Group (ECOG) Performance Status Score, for PRO-CTCAE Frequency, Severity, and Interference Items at Visit 1†



Abbreviations: PRO-CTCAE, Patient-Reported Outcomes version of the Common Terminology Criteria for Adverse Events; ECOG, Eastern Cooperative Oncology Group; PS, Performance status; F, Frequency; S, Severity; I, Interference with usual or daily activities

†eFigure 3 includes frequency, severity, and interference items for the 20 “core” symptomatic AEs selected a priori based on high prevalence in prior National Cancer Institute sponsored clinical trials. Numerical data for ECOG PS comparisons appear in eTable 3 for all PRO-CTCAE items at both visits.

eTable 1. PRO-CTCAE Symptomatic AEs by Electronic Survey

PRO-CTCAE Symptomatic AE Term	Surveys Based on Cancer Type							Survey for all patients after 80% were accrued
	Breast Survey	Lymphoma/ Myeloma Survey	Prostate/ Bladder Survey	Lung Survey	Colorectal Survey	Head/Neck and Esophageal Survey	Other Disease Site Survey	
Anxiety	X	X	X	X	X	X	X	
Arm/leg swelling	X	X	X	X	X	X	X	
Constipation	X	X	X	X	X	X	X	
Decreased appetite	X	X	X	X	X	X	X	
Dry mouth	X	X	X	X	X	X	X	
Fatigue	X	X	X	X	X	X	X	
Hair loss	X	X	X	X	X	X	X	
Headache	X	X	X	X	X	X	X	
Insomnia	X	X	X	X	X	X	X	
Loose stools	X	X	X	X	X	X	X	
Mouth or throat sores	X	X	X	X	X	X	X	
Nausea	X	X	X	X	X	X	X	
Numbness/tingling in your hands or feet	X	X	X	X	X	X	X	
Pain	X	X	X	X	X	X	X	
Problems with concentration	X	X	X	X	X	X	X	
Problems with tasting food/drink	X	X	X	X	X	X	X	
Rash	X	X	X	X	X	X	X	
Sad or unhappy feelings	X	X	X	X	X	X	X	
Shortness of breath	X	X	X	X	X	X	X	
Vomiting	X	X	X	X	X	X	X	
Aching joints	X	X	X					X
Aching muscles		X	X					X
Acne	X			X				X
Bed sores				X	X			X
Bloating				X	X			X
Blurry vision					X	X		X
Body odor		X			X			X
Breast area enlargement or tenderness			X		X			X
Bruise easily		X		X				X
Change in the color of fingernails/toenails	X		X	X				X
Cough			X	X		X		X
Decreased sexual interest	X		X					X
Difficulty getting or keeping an erection		X	X					X
Difficulty swallowing		X				X		X
Dizziness	X			X				X
Dry skin	X			X				X
Ejaculation problems		X	X					X
Feelings that nothing could cheer you up	X	X	X	X	X	X	X	

PRO-CTCAE Symptomatic AE Term	Surveys Based on Cancer Type							Survey for all patients after 80% were accrued
	Breast Survey	Lymphoma/ Myeloma Survey	Prostate/ Bladder Survey	Lung Survey	Colorectal Survey	Head/Neck and Esophageal Survey	Other Disease Site Survey	
Flashing lights in eyes					X	X		X
Frequent urination		X	X					X
Hand-foot syndrome	X			X	X			X
Heartburn		X				X		X
Hiccups				X	X	X		X
Hives	X			X				X
Hoarse voice		X				X		X
Hot flashes	X		X		X			X
Increased passing of gas				X	X			X
Increased skin sensitivity to sunlight	X			X				X
Irregular menstrual periods	X	X						X
Itchy skin	X			X				X
Lose any fingernails/toenails	X		X	X				X
Loss of control of bowel movements			X	X				X
Loss of control of urine		X	X					X
Miss an expected menstrual period	X	X						X
Nosebleeds		X		X				X
Pain during vaginal sex	X	X						X
Pain in the abdomen				X	X			X
Pain or burning with urination		X	X					X
Pain/swelling/redness at IV	X				X			X
Pounding/racing heartbeat	X			X				X
Problems with memory	X		X		X			X
Ridges/bumps on fingernails/toenails	X		X	X				X
Ringing in ears			X			X		X
Shivering or shaking chills		X			X			X
Skin burns from radiation	X	X		X		X		X
Skin cracking at the corners of your mouth		X				X		X
Spots/lines/floaters) in eyes					X	X		X
Stretch marks		X			X			X
Sudden urges to urinate		X	X					X
Took too long to have an orgasm or climax	X	X	X					X
Unable to have an orgasm or climax	X	X	X					X
Unexpected decrease in sweating	X			X				X
Unexpected or excessive sweating	X		X		X			X
Unusual darkening of the skin	X			X		X		X
Unusual vaginal discharge	X	X						X

PRO-CTCAE Symptomatic AE Term	Surveys Based on Cancer Type							Survey for all patients after 80% were accrued
	Breast Survey	Lymphoma/ Myeloma Survey	Prostate/ Bladder Survey	Lung Survey	Colorectal Survey	Head/Neck and Esophageal Survey	Other Disease Site Survey	
Urine color change		X	X					X
Vaginal dryness	X	X						X
Voice changes		X				X		X
Watery eyes					X	X		X
Wheezing			X	X		X		X

Abbreviations: PRO-CTCAE, Patient-Reported Outcomes version of the Common Terminology Criteria for Adverse Events; AE, adverse event

eTable 2. PRO-CTCAE Symptomatic AEs by Analysis

PRO-CTCAE Symptomatic AE Term	Construct validity analyses				Test-retest reliability	Responsive-ness
	Convergent validity analyses		Known-groups validity analyses			
	Pearson correlation with QLQ-C30 HRQOL summary and functioning/global scales	Pearson correlation with QLQ-C30 symptom scales	Comparison between ECOG PS 0-1 vs 2-4 groups	Comparison between groups based on cancer type, treatment, or other characteristic		
Anxiety	X		X	X	X	X
Arm/leg swelling	X		X		X	
Constipation	X	X	X	X	X	X
Decreased appetite	X	X	X	X	X	X
Dry mouth	X		X	X	X	
Fatigue	X	X	X	X	X	X
Hair loss	X		X	X	X	
Headache	X		X		X	
Insomnia	X	X	X	X	X	X
Loose stools	X	X	X	X	X	X
Mouth or throat sores	X		X	X	X	X
Nausea	X	X	X	X	X	X
Numbness/tingling in your hands or feet	X		X	X	X	X
Pain	X	X	X	X	X	X
Problems with concentration	X		X	X	X	
Problems with tasting food/drink	X		X		X	
Rash	X		X	X	X	
Sad or unhappy feelings	X		X	X	X	X
Shortness of breath	X	X	X	X	X	X
Vomiting	X	X	X	X	X	X
Aching joints	X		X	X		
Aching muscles	X		X			
Acne	X		X	X		
Bed sores	X		X			
Bloating	X		X	X		
Blurry vision	X		X			
Body odor	X		X			
Breast area enlargement or tenderness	X		X	X		
Bruise easily	X		X			
Change in the color of fingernails/toenails	X		X			
Cough	X		X	X	X	
Decreased sexual interest	X		X			
Difficulty getting or keeping an erection	X		X			
Difficulty swallowing	X		X	X		
Dizziness	X		X			

PRO-CTCAE Symptomatic AE Term	Construct validity analyses				Test-retest reliability	Responsive-ness
	Convergent validity analyses		Known-groups validity analyses			
	Pearson correlation with QLQ-C30 HRQOL summary and functioning/global scales	Pearson correlation with QLQ-C30 symptom scales	Comparison between ECOG PS 0-1 vs 2-4 groups	Comparison between groups based on cancer type, treatment, or other characteristic		
Dry skin	X		X			
Ejaculation problems	X		X			
Feelings that nothing could cheer you up	X		X	X	X	
Flashing lights in eyes	X		X			
Frequent urination	X		X	X		
Hand-foot syndrome	X		X	X		
Heartburn	X		X	X		
Hiccups	X		X	X	X	
Hives	X		X	X		
Hoarse voice	X		X	X		
Hot flashes	X		X	X		
Increased passing of gas	X		X	X		
Increased skin sensitivity to sunlight	X		X			
Irregular menstrual periods	X		X	X		
Itchy skin	X		X			
Lose any fingernails/toenails	X		X			
Loss of control of bowel movements	X		X	X		
Loss of control of urine	X		X	X		
Miss an expected menstrual period	X		X	X		
Nosebleeds	X		X	X		
Pain during vaginal sex	X		X	X		
Pain in the abdomen	X		X	X		
Pain or burning with urination	X		X	X		
Pain/swelling/redness at IV	X		X	X		
Pounding/racing heartbeat	X		X			
Problems with memory	X		X	X		
Ridges/bumps on fingernails/toenails	X		X			
Ringing in ears	X		X	X		
Shivering or shaking chills	X		X			
Skin burns from radiation	X		X	X	X	
Skin cracking at the corners of your mouth	X		X	X		
Spots/lines/floaters) in eyes	X		X			
Stretch marks	X		X	X		
Sudden urges to urinate	X		X	X		
Took too long to have an orgasm or climax	X		X			

PRO-CTCAE Symptomatic AE Term	Construct validity analyses				Test-retest reliability	Responsive-ness
	Convergent validity analyses		Known-groups validity analyses			
	Pearson correlation with QLQ-C30 HRQOL summary and functioning/global scales	Pearson correlation with QLQ-C30 symptom scales	Comparison between ECOG PS 0-1 vs 2-4 groups	Comparison between groups based on cancer type, treatment, or other characteristic		
Unable to have an orgasm or climax	X		X			
Unexpected decrease in sweating	X		X			
Unexpected or excessive sweating	X		X	X		
Unusual darkening of the skin	X		X	X	X	
Unusual vaginal discharge	X		X	X		
Urine color change	X		X	X		
Vaginal dryness	X		X	X		
Voice changes	X		X	X		
Watery eyes	X		X			
Wheezing	X		X	X	X	

Abbreviations: PRO-CTCAE, Patient-Reported Outcomes version of the Common Terminology Criteria for Adverse Events; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Core Quality of Life Questionnaire; HRQOL, Health-related quality of life; ECOG, Eastern Cooperative Oncology Group; PS, Performance status

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Aching muscles (S)	1	227	ECOG PS 2-4	ECOG PS 0-1	0.48	1.01	0.48	Physical Functioning	0.32	<0.001	<0.001
Aching muscles (S)	1	226					Role Functioning	0.28	<0.001	<0.001	
Aching muscles (S)	1	226					Emotional Functioning	0.21	0.001	0.005	
Aching muscles (S)	1	226					Cognitive Functioning	0.25	<0.001	<0.001	
Aching muscles (S)	1	226					Social Functioning	0.25	<0.001	<0.001	
Aching muscles (S)	1	226					Global Health Status/QoL	0.27	<0.001	<0.001	
Aching muscles (S)	1	224					HRQL Summary Score	0.40	<0.001	<0.001	
Aching muscles (S)	2	201	ECOG PS 2-4	ECOG PS 0-1	0.19	0.98	0.19	Physical Functioning	0.40	<0.001	<0.001
Aching muscles (S)	2	199					Role Functioning	0.39	<0.001	<0.001	
Aching muscles (S)	2	198					Emotional Functioning	0.20	0.004	0.01	
Aching muscles (S)	2	198					Cognitive Functioning	0.27	<0.001	<0.001	
Aching muscles (S)	2	197					Social Functioning	0.30	<0.001	<0.001	
Aching muscles (S)	2	198					Global Health Status/QoL	0.31	<0.001	<0.001	
Aching muscles (S)	2	195					HRQL Summary Score	0.47	<0.001	<0.001	
Aching muscles (I)	1	227	ECOG PS 2-4	ECOG PS 0-1	0.71	1.09	0.65	Physical Functioning	0.39	<0.001	<0.001
Aching muscles (I)	1	226					Role Functioning	0.38	<0.001	<0.001	
Aching muscles (I)	1	226					Emotional Functioning	0.32	<0.001	<0.001	
Aching muscles (I)	1	226					Cognitive Functioning	0.28	<0.001	<0.001	
Aching muscles (I)	1	226					Social Functioning	0.40	<0.001	<0.001	
Aching muscles (I)	1	226					Global Health Status/QoL	0.32	<0.001	<0.001	
Aching muscles (I)	1	224					HRQL Summary Score	0.49	<0.001	<0.001	
Aching muscles (I)	2	201	ECOG PS 2-4	ECOG PS 0-1	0.32	1.05	0.31	Physical Functioning	0.42	<0.001	<0.001
Aching muscles (I)	2	199					Role Functioning	0.42	<0.001	<0.001	
Aching muscles (I)	2	198					Emotional Functioning	0.25	<0.001	<0.001	
Aching muscles (I)	2	198					Cognitive Functioning	0.32	<0.001	<0.001	
Aching muscles (I)	2	197					Social Functioning	0.37	<0.001	<0.001	
Aching muscles (I)	2	198					Global Health Status/QoL	0.28	<0.001	<0.001	
Aching muscles (I)	2	195					HRQL Summary Score	0.50	<0.001	<0.001	
Acne (S)	1	409	ECOG PS 2-4	ECOG PS 0-1	-0.04	0.66	-0.06	Physical Functioning	0.03	0.66	0.82
Acne (S)	1	394	Epidermal growth factor receptor inhibitor in prior 2 weeks	Other	0.41	0.65	0.63	Role Functioning	-0.03	0.005	0.09
Acne (S)	1	394					Emotional Functioning	0.06	0.26	0.82	
Acne (S)	1	394					Cognitive Functioning	0.02	0.69	0.82	
Acne (S)	1	394					Social Functioning	-0.01	0.79	0.82	
Acne (S)	1	394					Global Health Status/QoL	0.07	0.14	0.82	
Acne (S)	1	394					HRQL Summary Score	0.04	0.47	0.82	
Acne (S)	1	391					Physical Functioning	0.02	0.7	0.82	
Acne (S)	2	372	ECOG PS 2-4	ECOG PS 0-1	-0.14	0.68	-0.20	Role Functioning	0.03	0.22	0.82
Acne (S)	2	356	Epidermal growth factor receptor inhibitor in prior 2 weeks	Other	0.45	0.67	0.67	Emotional Functioning	0.10	0.05	0.81
Acne (S)	2	356					Cognitive Functioning	-0.04	0.5	0.82	
Acne (S)	2	356					Social Functioning	0.03	0.56	0.82	
Acne (S)	2	356					Global Health Status/QoL	0.08	0.13	0.82	
Acne (S)	2	356					HRQL Summary Score	-0.01	0.82	0.82	
Anxiety (F)	1	837	ECOG PS 2-4	ECOG PS 0-1	0.40	1.07	0.38	Physical Functioning	0.04	0.49	0.82
Anxiety (F)	1	821	Currently taking anxiety med	Other	0.79	1.02	0.77	Role Functioning	0.28	<0.001	<0.001
Anxiety (F)	1	821					Emotional Functioning	0.36	<0.001	<0.001	
Anxiety (F)	1	818					Cognitive Functioning	0.70	<0.001	<0.001	
Anxiety (F)	1	818					Social Functioning	0.42	<0.001	<0.001	
Anxiety (F)	1	818					Global Health Status/QoL	0.41	<0.001	<0.001	
Anxiety (F)	1	816					HRQL Summary Score	0.30	<0.001	<0.001	
Anxiety (F)	2	778	ECOG PS 2-4	ECOG PS 0-1	0.36	1.07	0.34	Physical Functioning	0.50	<0.001	<0.001
Anxiety (F)	2	778	Currently taking anxiety med	Other	0.78	1.02	0.77	Role Functioning	0.32	<0.001	<0.001
Anxiety (F)	2	756					Emotional Functioning	0.32	<0.001	<0.001	
Anxiety (F)	2	754					Cognitive Functioning	0.72	<0.001	<0.001	
Anxiety (F)	2	754					Social Functioning	0.43	<0.001	<0.001	
Anxiety (F)	2	753					Global Health Status/QoL	0.35	<0.001	<0.001	
Anxiety (F)	2	754					HRQL Summary Score	0.35	<0.001	<0.001	
Anxiety (F)	2	747					Physical Functioning	0.49	<0.001	<0.001	
Anxiety (S)	1	837	ECOG PS 2-4	ECOG PS 0-1	0.43	0.96	0.45	Role Functioning	0.30	<0.001	<0.001
Anxiety (S)	1	821	Currently taking anxiety med	Other	0.65	0.93	0.70	Emotional Functioning	0.36	<0.001	<0.001
Anxiety (S)	1	821					Physical Functioning	0.30	<0.001	<0.001	
Anxiety (S)	1	818					Emotional Functioning	0.70	<0.001	<0.001	

PROCTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Anxiety (S)	1	818							0.44	<0.001	<0.001
Anxiety (S)	1	818							0.42	<0.001	<0.001
Anxiety (S)	1	816							0.32	<0.001	<0.001
Anxiety (S)	2	778	ECOG PS 2-4	ECOG PS 0-1	0.35	0.92	0.38	Global Health Status/QoL	0.51	<0.001	<0.001
Anxiety (S)	2	778	Currently taking anxiety med	Other	0.66	0.89	0.75	HRQOL Summary Score		<0.001	<0.001
Anxiety (S)	2	756								<0.001	<0.001
Anxiety (S)	2	756							0.34	<0.001	<0.001
Anxiety (S)	2	754							0.33	<0.001	<0.001
Anxiety (S)	2	754							0.70	<0.001	<0.001
Anxiety (S)	2	753							0.43	<0.001	<0.001
Anxiety (S)	2	754							0.37	<0.001	<0.001
Anxiety (S)	2	754							0.38	<0.001	<0.001
Anxiety (S)	2	747							0.52	<0.001	<0.001
Anxiety (S)	1	837	ECOG PS 2-4	ECOG PS 0-1	0.48	1.03	0.46	Physical Functioning		<0.001	<0.001
Anxiety (S)	1	837	Currently taking anxiety med	Other	0.63	1.01	0.63	Role Functioning		<0.001	<0.001
Anxiety (S)	1	821							0.33	<0.001	<0.001
Anxiety (S)	1	821							0.39	<0.001	<0.001
Anxiety (S)	1	818							0.64	<0.001	<0.001
Anxiety (S)	1	818							0.42	<0.001	<0.001
Anxiety (S)	1	818							0.49	<0.001	<0.001
Anxiety (S)	1	818							0.33	<0.001	<0.001
Anxiety (S)	1	816							0.51	<0.001	<0.001
Anxiety (S)	2	778	ECOG PS 2-4	ECOG PS 0-1	0.46	0.97	0.47	Physical Functioning		<0.001	<0.001
Anxiety (S)	2	778	Currently taking anxiety med	Other	0.59	0.95	0.62	Role Functioning		<0.001	<0.001
Anxiety (S)	2	756							0.39	<0.001	<0.001
Anxiety (S)	2	756							0.39	<0.001	<0.001
Anxiety (S)	2	754							0.65	<0.001	<0.001
Anxiety (S)	2	754							0.43	<0.001	<0.001
Anxiety (S)	2	753							0.41	<0.001	<0.001
Anxiety (S)	2	754							0.36	<0.001	<0.001
Anxiety (S)	2	747							0.51	<0.001	<0.001
Arm/leg swelling (F)	1	827	ECOG PS 2-4	ECOG PS 0-1	0.24	1.10	0.22	Physical Functioning		0.02	0.02
Arm/leg swelling (F)	1	811							0.23	<0.001	<0.001
Arm/leg swelling (F)	1	811							0.19	<0.001	<0.001
Arm/leg swelling (F)	1	808							0.16	<0.001	<0.001
Arm/leg swelling (F)	1	808							0.20	<0.001	<0.001
Arm/leg swelling (F)	1	808							0.13	<0.001	<0.001
Arm/leg swelling (F)	1	808							0.19	<0.001	<0.001
Arm/leg swelling (F)	1	807							0.24	<0.001	<0.001
Arm/leg swelling (F)	2	763	ECOG PS 2-4	ECOG PS 0-1	0.28	1.07	0.26	Physical Functioning		0.01	0.02
Arm/leg swelling (F)	2	741							0.22	<0.001	<0.001
Arm/leg swelling (F)	2	741							0.17	<0.001	<0.001
Arm/leg swelling (F)	2	739							0.19	<0.001	<0.001
Arm/leg swelling (F)	2	739							0.14	<0.001	<0.001
Arm/leg swelling (F)	2	738							0.11	0.003	0.01
Arm/leg swelling (F)	2	739							0.17	<0.001	<0.001
Arm/leg swelling (F)	2	732							0.20	<0.001	<0.001
Arm/leg swelling (S)	1	828	ECOG PS 2-4	ECOG PS 0-1	0.23	0.87	0.26	Physical Functioning		0.004	0.006
Arm/leg swelling (S)	1	812							0.24	<0.001	<0.001
Arm/leg swelling (S)	1	812							0.18	<0.001	<0.001
Arm/leg swelling (S)	1	809							0.19	<0.001	<0.001
Arm/leg swelling (S)	1	809							0.20	<0.001	<0.001
Arm/leg swelling (S)	1	809							0.13	<0.001	0.001
Arm/leg swelling (S)	1	809							0.21	<0.001	<0.001
Arm/leg swelling (S)	1	807							0.26	<0.001	<0.001
Arm/leg swelling (S)	2	763	ECOG PS 2-4	ECOG PS 0-1	0.27	0.82	0.33	Physical Functioning		<0.001	0.003
Arm/leg swelling (S)	2	741							0.23	<0.001	<0.001
Arm/leg swelling (S)	2	741							0.17	<0.001	<0.001
Arm/leg swelling (S)	2	739							0.21	<0.001	<0.001
Arm/leg swelling (S)	2	739							0.13	<0.001	0.001
Arm/leg swelling (S)	2	738							0.10	0.006	0.006
Arm/leg swelling (S)	2	739							0.17	<0.001	<0.001
Arm/leg swelling (S)	2	732							0.20	<0.001	<0.001
Arm/leg swelling (S)	1	828	ECOG PS 2-4	ECOG PS 0-1	0.24	0.84	0.29	Physical Functioning		0.002	0.003
Arm/leg swelling (S)	1	812							0.25	<0.001	<0.001
Arm/leg swelling (S)	1	812							0.21	<0.001	<0.001
Arm/leg swelling (S)	1	809							0.23	<0.001	<0.001
Arm/leg swelling (S)	1	809							0.21	<0.001	<0.001
Arm/leg swelling (S)	1	809							0.19	<0.001	<0.001
Arm/leg swelling (S)	1	809							0.22	<0.001	<0.001
Arm/leg swelling (S)	1	807							0.29	<0.001	<0.001
Arm/leg swelling (S)	2	763	ECOG PS 2-4	ECOG PS 0-1	0.18	0.77	0.24	Physical Functioning		0.02	0.02
Arm/leg swelling (S)	2	741							0.25	<0.001	<0.001

PROCTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Arm/leg swelling (I)	2	741						Role Functioning	0.24	<0.001	<0.001
Arm/leg swelling (I)	2	739						Emotional Functioning	0.22	<0.001	<0.001
Arm/leg swelling (I)	2	739						Cognitive Functioning	0.16	<0.001	<0.001
Arm/leg swelling (I)	2	739						Social Functioning	0.17	<0.001	<0.001
Arm/leg swelling (I)	2	732						Global Health Status/QoL	0.15	<0.001	<0.001
Arm/leg swelling (I)	2	732						HRQOL Summary Score	0.26	<0.001	<0.001
Bed sores (P)	1	329	ECOG PS 2-4	ECOG PS 0-1	0.11%		0.01	Physical Functioning	0.12	0.95	0.98
Bed sores (P)	1	321						Role Functioning	0.14	0.04	0.54
Bed sores (P)	1	321						Emotional Functioning	0.10	0.01	0.17
Bed sores (P)	1	321						Cognitive Functioning	0.02	0.07	0.79
Bed sores (P)	1	321						Social Functioning	0.09	0.77	0.98
Bed sores (P)	1	321						Global Health Status/QoL	0.09	0.12	0.98
Bed sores (P)	1	318						HRQOL Summary Score	0.14	0.01	0.2
Bed sores (P)	2	292	ECOG PS 2-4	ECOG PS 0-1	-0.21%		-0.01	Physical Functioning	0.05	0.93	0.98
Bed sores (P)	2	287						Role Functioning	0.00	0.45	0.98
Bed sores (P)	2	287						Emotional Functioning	0.00	0.98	0.98
Bed sores (P)	2	285						Cognitive Functioning	-0.01	0.92	0.98
Bed sores (P)	2	285						Social Functioning	-0.01	0.83	0.98
Bed sores (P)	2	285						Global Health Status/QoL	-0.11	0.06	0.75
Bed sores (P)	2	285						HRQOL Summary Score	-0.09	0.12	0.98
Bed sores (P)	2	284						HRQOL Summary Score	-0.02	0.68	0.98
Bloating (F)	1	332	ECOG PS 2-4	ECOG PS 0-1	0.10	1.07	0.09	Physical Functioning	0.23	0.51	0.91
Bloating (F)	1	240	Gastrointestinal	Lung/Head/Neck	0.43	0.99	0.44	Role Functioning	0.26	0.005	0.02
Bloating (F)	1	324						Emotional Functioning	0.20	<0.001	<0.001
Bloating (F)	1	323						Cognitive Functioning	0.23	<0.001	0.002
Bloating (F)	1	323						Social Functioning	0.21	<0.001	<0.001
Bloating (F)	1	323						Global Health Status/QoL	0.14	0.01	0.06
Bloating (F)	1	320						HRQOL Summary Score	0.31	<0.001	<0.001
Bloating (F)	2	292	ECOG PS 2-4	ECOG PS 0-1	-0.02	1.01	-0.02	Physical Functioning	0.27	0.91	0.91
Bloating (F)	2	287	Gastrointestinal	Lung/Head/Neck	0.24	0.98	0.25	Role Functioning	0.31	0.13	0.39
Bloating (F)	2	287						Emotional Functioning	0.28	<0.001	<0.001
Bloating (F)	2	285						Cognitive Functioning	0.19	<0.001	<0.001
Bloating (F)	2	285						Social Functioning	0.25	<0.001	0.006
Bloating (F)	2	285						Global Health Status/QoL	0.20	<0.001	<0.001
Bloating (F)	2	285						HRQOL Summary Score	0.35	<0.001	0.006
Bloating (F)	2	284						HRQOL Summary Score	0.35	<0.001	<0.001
Bloating (F)	1	332	ECOG PS 2-4	ECOG PS 0-1	0.12	0.89	0.14	Physical Functioning	0.22	0.32	0.62
Bloating (S)	1	240	Gastrointestinal	Lung/Head/Neck	0.39	0.84	0.46	Role Functioning	0.26	0.003	0.01
Bloating (S)	1	324						Emotional Functioning	0.21	<0.001	<0.001
Bloating (S)	1	323						Cognitive Functioning	0.22	<0.001	<0.001
Bloating (S)	1	323						Social Functioning	0.24	<0.001	<0.001
Bloating (S)	1	323						Global Health Status/QoL	0.17	0.002	0.01
Bloating (S)	1	320						HRQOL Summary Score	0.33	<0.001	<0.001
Bloating (S)	2	292	ECOG PS 2-4	ECOG PS 0-1	0.07	0.84	0.08	Physical Functioning	0.21	0.62	0.62
Bloating (S)	2	212	Gastrointestinal	Lung/Head/Neck	0.20	0.84	0.24	Role Functioning	0.28	0.14	0.42
Bloating (S)	2	287						Emotional Functioning	0.23	<0.001	0.003
Bloating (S)	2	287						Cognitive Functioning	0.17	<0.001	<0.001
Bloating (S)	2	285						Social Functioning	0.23	0.004	0.02
Bloating (S)	2	285						Global Health Status/QoL	0.23	<0.001	<0.001
Bloating (S)	2	285						HRQOL Summary Score	0.20	<0.001	0.004
Bloating (S)	2	284						HRQOL Summary Score	0.29	<0.001	<0.001
Blurry vision (S)	1	270	ECOG PS 2-4	ECOG PS 0-1	0.21	0.84	0.25	Physical Functioning	0.30	0.16	0.27
Blurry vision (S)	1	267						Role Functioning	0.20	<0.001	<0.001
Blurry vision (S)	1	263						Emotional Functioning	0.26	<0.001	0.005
Blurry vision (S)	1	263						Cognitive Functioning	0.45	<0.001	<0.001
Blurry vision (S)	1	263						Social Functioning	0.26	<0.001	<0.001
Blurry vision (S)	1	263						Global Health Status/QoL	0.25	<0.001	<0.001
Blurry vision (S)	1	261						HRQOL Summary Score	0.39	<0.001	<0.001
Blurry vision (S)	2	239	ECOG PS 2-4	ECOG PS 0-1	0.16	0.74	0.22	Physical Functioning	0.24	0.27	0.27
Blurry vision (S)	2	237						Role Functioning	0.19	<0.001	0.002
Blurry vision (S)	2	237						Emotional Functioning	0.23	0.004	0.02
Blurry vision (S)	2	237						Cognitive Functioning	0.39	<0.001	0.003
Blurry vision (S)	2	237						Social Functioning	0.14	0.03	<0.001
Blurry vision (S)	2	237						Global Health Status/QoL	0.13	0.046	0.14

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30 HRQL Summary Score	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Blurry vision (S)	2	237	ECOG PS 2-4	ECOG PS 0-1	0.29	0.83	0.36	Physical Functioning	0.32	<0.001	<0.001
Blurry vision (I)	1	270						Role Functional	0.26	<0.001	0.14
Blurry vision (I)	1	267						Emotional Functioning	0.18	0.003	<0.001
Blurry vision (I)	1	263						Cognitive Functioning	0.23	<0.001	0.02
Blurry vision (I)	1	263						Social Functioning	0.41	<0.001	0.002
Blurry vision (I)	1	263						Global Health Status/QoL	0.29	<0.001	<0.001
Blurry vision (I)	1	261						HRQL Summary Score	0.19	0.002	<0.001
Blurry vision (I)	2	239	ECOG PS 2-4	ECOG PS 0-1	0.09	0.69	0.13	Physical Functioning	0.35	<0.001	<0.001
Blurry vision (I)	2	237						Role Functional	0.19	0.51	0.51
Blurry vision (I)	2	237						Emotional Functioning	0.16	0.003	0.02
Blurry vision (I)	2	237						Cognitive Functioning	0.25	<0.001	0.046
Blurry vision (I)	2	237						Social Functioning	0.30	<0.001	<0.001
Blurry vision (I)	2	237						Global Health Status/QoL	0.17	0.01	0.046
Blurry vision (I)	2	237						HRQL Summary Score	0.11	0.09	0.19
Body odor (S)	1	200	ECOG PS 2-4	ECOG PS 0-1	0.16	0.45	0.35	Physical Functioning	0.30	<0.001	<0.001
Body odor (S)	1	199						Role Functional	0.20	0.005	0.62
Body odor (S)	1	199						Emotional Functioning	0.13	0.008	0.83
Body odor (S)	1	199						Cognitive Functioning	0.09	0.21	0.91
Body odor (S)	1	199						Social Functioning	0.09	0.23	0.91
Body odor (S)	1	199						Global Health Status/QoL	0.16	0.02	0.34
Body odor (S)	1	197						HRQL Summary Score	0.23	<0.001	0.59
Body odor (S)	2	176	ECOG PS 2-4	ECOG PS 0-1	-0.01	0.30	-0.02	Physical Functioning	0.09	0.91	0.91
Body odor (S)	2	175						Role Functional	0.09	0.23	0.91
Body odor (S)	2	175						Emotional Functioning	0.03	0.65	0.91
Body odor (S)	2	175						Cognitive Functioning	-0.01	0.9	0.91
Body odor (S)	2	175						Social Functioning	0.09	0.25	0.91
Body odor (S)	2	175						Global Health Status/QoL	0.09	0.25	0.91
Body odor (S)	2	175						HRQL Summary Score	0.10	0.18	0.91
Breast area enlargement or tenderness (S)	1	241	ECOG PS 2-4	ECOG PS 0-1	-0.22	0.64	-0.34	Physical Functioning	0.08	0.008	0.92
Breast area enlargement or tenderness (S)	1	127	Prostate	Gastrointestinal	0.30	0.58	0.51	Role Functional	-0.01	0.82	0.92
Breast area enlargement or tenderness (S)	1	240						Emotional Functioning	-0.08	0.22	0.92
Breast area enlargement or tenderness (S)	1	240						Cognitive Functioning	0.05	0.45	0.92
Breast area enlargement or tenderness (S)	1	240						Social Functioning	0.07	0.3	0.92
Breast area enlargement or tenderness (S)	1	240						Global Health Status/QoL	-0.03	0.6	0.92
Breast area enlargement or tenderness (S)	1	240						HRQL Summary Score	-0.05	0.47	0.92
Breast area enlargement or tenderness (S)	1	238						Physical Functioning	-0.04	0.53	0.92
Breast area enlargement or tenderness (S)	2	213	ECOG PS 2-4	ECOG PS 0-1	-0.18	0.60	-0.29	Role Functional	0.02	0.2	0.92
Breast area enlargement or tenderness (S)	2	115	Prostate	Gastrointestinal	0.11	0.40	0.27	Emotional Functioning	-0.03	0.15	0.92
Breast area enlargement or tenderness (S)	2	211						Cognitive Functioning	-0.12	0.62	0.92
Breast area enlargement or tenderness (S)	2	211						Social Functioning	0.14	0.07	0.92
Breast area enlargement or tenderness (S)	2	210						Global Health Status/QoL	0.18	0.04	0.63
Breast area enlargement or tenderness (S)	2	210						HRQL Summary Score	0.14	0.008	0.14
Breast area enlargement or tenderness (S)	2	209						Physical Functioning	-0.03	0.66	0.92
Breast area enlargement or tenderness (S)	2	210						Global Health Status/QoL	-0.01	0.92	0.92
Breast area enlargement or tenderness (S)	2	207						HRQL Summary Score	-0.01	0.91	0.92
Bruise easily (P)	1	316	ECOG PS 2-4	ECOG PS 0-1	17.51%		0.36	Physical Functioning	0.04	0.008	0.12
Bruise easily (P)	1	308						Role Functional	0.07	0.48	0.57
Bruise easily (P)	1	308						Emotional Functioning	0.12	0.21	0.57
Bruise easily (P)	1	308						Cognitive Functioning	0.17	0.04	0.57
Bruise easily (P)	1	308						Social Functioning	0.03	0.003	0.06
Bruise easily (P)	1	308						Global Health Status/QoL	0.05	0.55	0.57
Bruise easily (P)	1	305						HRQL Summary Score	0.09	0.12	0.57
Bruise easily (P)	2	278	ECOG PS 2-4	ECOG PS 0-1	9.08%		0.19	Physical Functioning	0.08	0.21	0.57
Bruise easily (P)	2	273						Role Functional	0.08	0.19	0.57
Bruise easily (P)	2	271						Emotional Functioning	0.11	0.19	0.57
Bruise easily (P)	2	271						Cognitive Functioning	0.09	0.06	0.57
Bruise easily (P)	2	271						Social Functioning	0.03	0.15	0.57
Bruise easily (P)	2	271						Global Health Status/QoL	0.06	0.57	0.57
Bruise easily (P)	2	271						HRQL Summary Score	0.10	0.31	0.57
Change in the color of fingernails/toenails (P)	1	483	ECOG PS 2-4	ECOG PS 0-1	-6.81%		-0.19	Physical Functioning	0.07	0.2	0.71
Change in the color of fingernails/toenails (P)	1	468						Role Functional	0.05	0.13	0.71
Change in the color of fingernails/toenails (P)	1	468						Emotional Functioning	0.02	0.28	0.71
Change in the color of fingernails/toenails (P)	1	468						Cognitive Functioning	0.12	0.08	0.71
Change in the color of fingernails/toenails (P)	1	468						Social Functioning	0.11	0.008	0.14
Change in the color of fingernails/toenails (P)	1	468						Global Health Status/QoL	0.12	0.02	0.34

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Change in the color of fingernails/toenails (P)	1	468						Global Health Status/QoL	0.08	0.09	0.71
Change in the color of fingernails/toenails (P)	1	465						HRQoL Summary Score	0.10	0.04	0.51
Change in the color of fingernails/toenails (P)	2	441	ECOG PS 2-4	ECOG PS 0-1	-6.96%		-0.19	Physical Functioning	0.09	0.26	0.71
Change in the color of fingernails/toenails (P)	2	424						Role Functioning	0.03	0.51	0.71
Change in the color of fingernails/toenails (P)	2	423						Emotional Functioning	0.02	0.66	0.71
Change in the color of fingernails/toenails (P)	2	423						Cognitive Functioning	0.09	0.07	0.71
Change in the color of fingernails/toenails (P)	2	422						Social Functioning	0.07	0.15	0.71
Change in the color of fingernails/toenails (P)	2	423						Global Health Status/QoL	0.10	0.04	0.51
Change in the color of fingernails/toenails (P)	2	416						HRQoL Summary Score	0.07	0.14	0.71
Constipation (S)	1	847	ECOG PS 2-4	ECOG PS 0-1	0.47	1.11	0.42			<0.001	<0.001
Constipation (S)	1	847	Laxative in prior week	Other	1.03	1.02	1.01			<0.001	<0.001
Constipation (S)	1	847	Opioid [narcotic] pain med in prior week	Other	0.57	1.09	0.52			<0.001	<0.001
Constipation (S)	1	847	Surgery in prior 2 weeks	Other	0.56	1.12	0.50			0.005	0.01
Constipation (S)	1	831						Physical Functioning	0.25	<0.001	<0.001
Constipation (S)	1	827						Emotional Functioning	0.23	<0.001	<0.001
Constipation (S)	1	827						Cognitive Functioning	0.29	<0.001	<0.001
Constipation (S)	1	827						Social Functioning	0.25	<0.001	<0.001
Constipation (S)	1	825						Global Health Status/QoL	0.25	<0.001	<0.001
Constipation (S)	1	830						HRQoL Summary Score	0.42	<0.001	<0.001
Constipation (S)	2	782	ECOG PS 2-4	ECOG PS 0-1	0.31	1.12	0.28			<0.001	<0.001
Constipation (S)	2	782	Laxative in prior week	Other	1.02	1.02	0.99			0.004	0.01
Constipation (S)	2	782	Opioid [narcotic] pain med in prior week	Other	0.51	1.10	0.46			<0.001	<0.001
Constipation (S)	2	782	Surgery in prior 2 weeks	Other	0.36	1.13	0.32			<0.001	<0.001
Constipation (S)	2	760						Physical Functioning	0.29	<0.001	<0.001
Constipation (S)	2	760						Emotional Functioning	0.28	<0.001	<0.001
Constipation (S)	2	758						Cognitive Functioning	0.27	<0.001	<0.001
Constipation (S)	2	758						Social Functioning	0.24	<0.001	<0.001
Constipation (S)	2	757						Global Health Status/QoL	0.27	<0.001	<0.001
Constipation (S)	2	758						HRQoL Summary Score	0.30	<0.001	<0.001
Constipation (S)	2	751						Physical Functioning	0.46	<0.001	<0.001
Constipation (S)	2	760						Constipation	0.80	<0.001	<0.001
Cough (S)	1	455	ECOG PS 2-4	ECOG PS 0-1	0.36	0.90	0.40			0.003	0.01
Cough (S)	1	455	Currently using an inhaler	Other	0.65	0.88	0.74			<0.001	<0.001
Cough (S)	1	364	Lung/Head/Neck	Prostate/Bladder	0.40	0.91	0.44			<0.001	0.002
Cough (S)	1	445						Physical Functioning	0.32	<0.001	<0.001
Cough (S)	1	445						Role Functioning	0.24	<0.001	<0.001
Cough (S)	1	442						Emotional Functioning	0.25	<0.001	<0.001
Cough (S)	1	442						Cognitive Functioning	0.21	<0.001	<0.001
Cough (S)	1	442						Social Functioning	0.25	<0.001	<0.001
Cough (S)	1	442						Global Health Status/QoL	0.25	<0.001	<0.001
Cough (S)	1	439						HRQoL Summary Score	0.36	<0.001	<0.001
Cough (S)	2	408	ECOG PS 2-4	ECOG PS 0-1	0.19	0.87	0.22			0.15	0.15
Cough (S)	2	408	Currently using an inhaler	Other	0.45	0.85	0.53			<0.001	0.001
Cough (S)	2	327	Lung/Head/Neck	Prostate/Bladder	0.29	0.86	0.34			0.008	0.03
Cough (S)	2	401						Physical Functioning	0.27	<0.001	<0.001
Cough (S)	2	398						Role Functioning	0.26	<0.001	<0.001
Cough (S)	2	398						Emotional Functioning	0.12	0.01	0.03
Cough (S)	2	398						Cognitive Functioning	0.15	0.003	0.01
Cough (S)	2	398						Social Functioning	0.21	<0.001	<0.001
Cough (S)	2	398						Global Health Status/QoL	0.19	<0.001	0.001
Cough (S)	2	394						HRQoL Summary Score	0.33	<0.001	<0.001
Cough (I)	1	455	ECOG PS 2-4	ECOG PS 0-1	0.31	0.86	0.36			0.007	0.007
Cough (I)	1	455	Currently using an inhaler	Other	0.38	0.86	0.44			<0.001	0.006
Cough (I)	1	364	Lung/Head/Neck	Prostate/Bladder	0.33	0.87	0.38			0.002	0.007
Cough (I)	1	445						Physical Functioning	0.29	<0.001	<0.001
Cough (I)	1	445						Role Functioning	0.20	<0.001	<0.001
Cough (I)	1	442						Emotional Functioning	0.26	<0.001	<0.001
Cough (I)	1	442						Cognitive Functioning	0.16	<0.001	0.006
Cough (I)	1	442						Social Functioning	0.25	<0.001	<0.001
Cough (I)	1	442						Global Health Status/QoL	0.15	0.001	0.007
Cough (I)	1	439						HRQoL Summary Score	0.30	<0.001	<0.001
Cough (I)	2	408	ECOG PS 2-4	ECOG PS 0-1	0.43	0.86	0.50			<0.001	0.006
Cough (I)	2	408	Currently using an inhaler	Other	0.33	0.86	0.38			0.007	0.007
Cough (I)	2	327	Lung/Head/Neck	Prostate/Bladder	0.38	0.85	0.44			<0.001	0.006
Cough (I)	2	401						Physical Functioning	0.31	<0.001	<0.001
Cough (I)	2	398						Role Functioning	0.31	<0.001	<0.001
Cough (I)	2	398						Emotional Functioning	0.18	<0.001	0.003
Cough (I)	2	397						Cognitive Functioning	0.14	0.007	0.007
Cough (I)	2	398						Social Functioning	0.31	<0.001	<0.001
Cough (I)	2	398						Global Health Status/QoL	0.17	<0.001	0.006

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30 HRQL Summary Score	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Cough (I)	2	394							0.36	<0.001	<0.001
Decreased appetite (S)	1	841	ECOG PS 2-4	ECOG PS 0-1	0.69	1.12	0.61			<0.001	<0.001
Decreased appetite (S)	1	841	Chemotherapy in prior 2 weeks	Other	0.42	1.13	0.37	Physical Functioning		<0.001	<0.001
Decreased appetite (S)	1	825						Role Functioning		<0.001	<0.001
Decreased appetite (S)	1	825						Emotional Functioning		<0.001	<0.001
Decreased appetite (S)	1	822						Cognitive Functioning		<0.001	<0.001
Decreased appetite (S)	1	822						Social Functioning		<0.001	<0.001
Decreased appetite (S)	1	822						Global Health Status/QoL		<0.001	<0.001
Decreased appetite (S)	1	820						HRQL Summary Score		<0.001	<0.001
Decreased appetite (S)	1	825						Appetite Loss		<0.001	<0.001
Decreased appetite (S)	2	778	ECOG PS 2-4	ECOG PS 0-1	0.61	1.12	0.54			<0.001	<0.001
Decreased appetite (S)	2	778	Chemotherapy in prior 2 weeks	Other	0.21	1.14	0.18	Physical Functioning		<0.001	<0.001
Decreased appetite (S)	2	756						Role Functioning		<0.001	<0.001
Decreased appetite (S)	2	756						Emotional Functioning		<0.001	<0.001
Decreased appetite (S)	2	754						Cognitive Functioning		<0.001	<0.001
Decreased appetite (S)	2	754						Social Functioning		<0.001	<0.001
Decreased appetite (S)	2	753						Global Health Status/QoL		<0.001	<0.001
Decreased appetite (S)	2	747						HRQL Summary Score		<0.001	<0.001
Decreased appetite (S)	2	755						Appetite Loss		<0.001	<0.001
Decreased appetite (I)	1	840	ECOG PS 2-4	ECOG PS 0-1	0.58	1.09	0.53			<0.001	<0.001
Decreased appetite (I)	1	824	Chemotherapy in prior 2 weeks	Other	0.42	1.09	0.38	Physical Functioning		<0.001	<0.001
Decreased appetite (I)	1	824						Role Functioning		<0.001	<0.001
Decreased appetite (I)	1	821						Emotional Functioning		<0.001	<0.001
Decreased appetite (I)	1	821						Cognitive Functioning		<0.001	<0.001
Decreased appetite (I)	1	821						Social Functioning		<0.001	<0.001
Decreased appetite (I)	1	821						Global Health Status/QoL		<0.001	<0.001
Decreased appetite (I)	1	821						HRQL Summary Score		<0.001	<0.001
Decreased appetite (I)	1	819						Appetite Loss		<0.001	<0.001
Decreased appetite (I)	1	824								<0.001	<0.001
Decreased appetite (I)	2	778	ECOG PS 2-4	ECOG PS 0-1	0.57	1.08	0.52			<0.001	<0.001
Decreased appetite (I)	2	778	Chemotherapy in prior 2 weeks	Other	0.08	1.10	0.07	Physical Functioning		<0.001	<0.001
Decreased appetite (I)	2	756						Role Functioning		<0.001	<0.001
Decreased appetite (I)	2	756						Emotional Functioning		<0.001	<0.001
Decreased appetite (I)	2	754						Cognitive Functioning		<0.001	<0.001
Decreased appetite (I)	2	754						Social Functioning		<0.001	<0.001
Decreased appetite (I)	2	753						Global Health Status/QoL		<0.001	<0.001
Decreased appetite (I)	2	754						HRQL Summary Score		<0.001	<0.001
Decreased appetite (I)	2	747						Appetite Loss		<0.001	<0.001
Decreased appetite (I)	2	755								<0.001	<0.001
Decreased sexual interest (S)	1	321	ECOG PS 2-4	ECOG PS 0-1	0.10	1.46	0.07			0.74	0.95
Decreased sexual interest (S)	1	313						Physical Functioning		0.005	0.04
Decreased sexual interest (S)	1	313						Role Functioning		<0.001	<0.001
Decreased sexual interest (S)	1	313						Emotional Functioning		<0.001	<0.001
Decreased sexual interest (S)	1	313						Cognitive Functioning		<0.001	<0.001
Decreased sexual interest (S)	1	313						Social Functioning		<0.001	<0.001
Decreased sexual interest (S)	1	313						Global Health Status/QoL		<0.001	<0.001
Decreased sexual interest (S)	1	311						HRQL Summary Score		<0.001	<0.001
Decreased sexual interest (S)	2	295	ECOG PS 2-4	ECOG PS 0-1	0.02	1.40	0.01			0.95	0.95
Decreased sexual interest (S)	2	282						Physical Functioning		0.02	0.11
Decreased sexual interest (S)	2	282						Role Functioning		0.03	0.13
Decreased sexual interest (S)	2	283						Emotional Functioning		0.42	0.95
Decreased sexual interest (S)	2	283						Cognitive Functioning		0.11	0.26
Decreased sexual interest (S)	2	282						Social Functioning		0.06	0.01
Decreased sexual interest (S)	2	283						Global Health Status/QoL		0.002	0.01
Decreased sexual interest (S)	2	277						HRQL Summary Score		<0.001	0.006
Difficulty getting or keeping an erection (S)	1	45	ECOG PS 2-4	ECOG PS 0-1	0.15	1.54	0.10			0.84	0.88
Difficulty getting or keeping an erection (S)	1	45						Physical Functioning		0.36	0.88
Difficulty getting or keeping an erection (S)	1	45						Role Functioning		0.19	0.88
Difficulty getting or keeping an erection (S)	1	45						Emotional Functioning		0.19	0.88
Difficulty getting or keeping an erection (S)	1	45						Cognitive Functioning		0.21	0.88
Difficulty getting or keeping an erection (S)	1	45						Social Functioning		0.04	0.7
Difficulty getting or keeping an erection (S)	1	45						Global Health Status/QoL		0.26	0.88
Difficulty getting or keeping an erection (S)	1	45						HRQL Summary Score		0.14	0.88
Difficulty getting or keeping an erection (S)	2	40	ECOG PS 2-4	ECOG PS 0-1	-0.27	1.44	-0.19			0.76	0.88
Difficulty getting or keeping an erection (S)	2	40						Physical Functioning		0.17	0.88
Difficulty getting or keeping an erection (S)	2	40						Role Functioning		0.07	0.88
Difficulty getting or keeping an erection (S)	2	39						Emotional Functioning		-0.04	0.88
Difficulty getting or keeping an erection (S)	2	39						Cognitive Functioning		0.79	0.88
Difficulty getting or keeping an erection (S)	2	39						Social Functioning		0.27	0.88
Difficulty getting or keeping an erection (S)	2	39						Global Health Status/QoL		0.13	0.88
Difficulty getting or keeping an erection (S)	2	39						HRQL Summary Score		0.24	0.88

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Difficulty swallowing (S)	1	254	ECOG PS 2-4	ECOG PS 0-1	0.19	1.01	0.19			0.28	0.95
Difficulty swallowing (S)	1	254	Head/Neck with radiation therapy in prior 2 weeks	Other	0.61	0.97	0.63	Physical Functioning		<0.001	<0.001
Difficulty swallowing (S)	1	250						Role Functioning	0.14	0.03	0.13
Difficulty swallowing (S)	1	247						Emotional Functioning	0.25	<0.001	<0.001
Difficulty swallowing (S)	1	247						Cognitive Functioning	0.28	<0.001	<0.001
Difficulty swallowing (S)	1	247						Social Functioning	0.18	0.005	0.03
Difficulty swallowing (S)	1	247						Global Health Status/QoL	0.24	<0.001	0.001
Difficulty swallowing (S)	1	245						HRQOL Summary Score	0.32	<0.001	<0.001
Difficulty swallowing (S)	2	223	ECOG PS 2-4	ECOG PS 0-1	0.01	1.02	0.01			0.95	0.95
Difficulty swallowing (S)	2	223	Head/Neck with radiation therapy in prior 2 weeks	Other	0.86	0.93	0.93	Physical Functioning		<0.001	<0.001
Difficulty swallowing (S)	2	221						Role Functioning	0.16	0.02	0.08
Difficulty swallowing (S)	2	221						Emotional Functioning	0.30	<0.001	<0.001
Difficulty swallowing (S)	2	221						Cognitive Functioning	0.23	<0.001	0.004
Difficulty swallowing (S)	2	221						Social Functioning	0.13	0.06	0.17
Difficulty swallowing (S)	2	221						Global Health Status/QoL	0.29	<0.001	<0.001
Difficulty swallowing (S)	2	221						HRQOL Summary Score	0.32	<0.001	<0.001
Difficulty swallowing (S)	2	221							0.37	<0.001	<0.001
Dizziness (S)	1	411	ECOG PS 2-4	ECOG PS 0-1	0.40	0.71	0.56	Physical Functioning		<0.001	<0.001
Dizziness (S)	1	396						Role Functioning	0.36	<0.001	<0.001
Dizziness (S)	1	396						Emotional Functioning	0.37	<0.001	<0.001
Dizziness (S)	1	396						Cognitive Functioning	0.33	<0.001	<0.001
Dizziness (S)	1	396						Social Functioning	0.33	<0.001	<0.001
Dizziness (S)	1	396						Global Health Status/QoL	0.35	<0.001	<0.001
Dizziness (S)	1	393						HRQOL Summary Score	0.34	<0.001	<0.001
Dizziness (S)	2	373	ECOG PS 2-4	ECOG PS 0-1	0	0.69	0			0.98	0.98
Dizziness (S)	2	357						Physical Functioning	0.28	<0.001	<0.001
Dizziness (S)	2	357						Role Functioning	0.35	<0.001	<0.001
Dizziness (S)	2	357						Emotional Functioning	0.37	<0.001	<0.001
Dizziness (S)	2	357						Cognitive Functioning	0.33	<0.001	<0.001
Dizziness (S)	2	357						Social Functioning	0.35	<0.001	<0.001
Dizziness (S)	2	357						Global Health Status/QoL	0.27	<0.001	<0.001
Dizziness (S)	2	353						HRQOL Summary Score	0.44	<0.001	<0.001
Dizziness (I)	1	411	ECOG PS 2-4	ECOG PS 0-1	0.41	0.73	0.55	Physical Functioning		<0.001	<0.001
Dizziness (I)	1	396						Role Functioning	0.38	<0.001	<0.001
Dizziness (I)	1	396						Emotional Functioning	0.38	<0.001	<0.001
Dizziness (I)	1	396						Cognitive Functioning	0.39	<0.001	<0.001
Dizziness (I)	1	396						Social Functioning	0.30	<0.001	<0.001
Dizziness (I)	1	396						Global Health Status/QoL	0.38	<0.001	<0.001
Dizziness (I)	1	393						HRQOL Summary Score	0.31	<0.001	<0.001
Dizziness (I)	2	373	ECOG PS 2-4	ECOG PS 0-1	-0.02	0.73	-0.03			0.85	0.85
Dizziness (I)	2	357						Physical Functioning	0.31	<0.001	<0.001
Dizziness (I)	2	357						Role Functioning	0.37	<0.001	<0.001
Dizziness (I)	2	357						Emotional Functioning	0.39	<0.001	<0.001
Dizziness (I)	2	357						Cognitive Functioning	0.32	<0.001	<0.001
Dizziness (I)	2	357						Social Functioning	0.35	<0.001	<0.001
Dizziness (I)	2	357						Global Health Status/QoL	0.26	<0.001	<0.001
Dizziness (I)	2	353						HRQOL Summary Score	0.46	<0.001	<0.001
Dry mouth (S)	1	842	ECOG PS 2-4	ECOG PS 0-1	0.66	1.03	0.64	Physical Functioning		<0.001	<0.001
Dry mouth (S)	1	842	Head/Neck with radiation therapy in prior 2 weeks	Other	0.46	1.05	0.44	Role Functioning	0.36	<0.001	<0.001
Dry mouth (S)	1	826						Emotional Functioning	0.35	<0.001	<0.001
Dry mouth (S)	1	823						Cognitive Functioning	0.31	<0.001	<0.001
Dry mouth (S)	1	823						Social Functioning	0.30	<0.001	<0.001
Dry mouth (S)	1	823						Global Health Status/QoL	0.32	<0.001	<0.001
Dry mouth (S)	1	821						HRQOL Summary Score	0.30	<0.001	<0.001
Dry mouth (S)	2	780	ECOG PS 2-4	ECOG PS 0-1	0.49	1.03	0.47			<0.001	<0.001
Dry mouth (S)	2	780	Head/Neck with radiation therapy in prior 2 weeks	Other	0.69	1.01	0.68	Physical Functioning		<0.001	<0.001
Dry mouth (S)	2	758						Role Functioning	0.31	<0.001	<0.001
Dry mouth (S)	2	758						Emotional Functioning	0.34	<0.001	<0.001
Dry mouth (S)	2	756						Cognitive Functioning	0.26	<0.001	<0.001
Dry mouth (S)	2	755						Social Functioning	0.27	<0.001	<0.001
Dry mouth (S)	2	755						Global Health Status/QoL	0.35	<0.001	<0.001
Dry mouth (S)	2	749						HRQOL Summary Score	0.36	<0.001	<0.001
Dry skin (S)	1	411	ECOG PS 2-4	ECOG PS 0-1	0.01	0.91	0.01			0.93	0.93
Dry skin (S)	1	396						Physical Functioning	0.22	<0.001	<0.001
Dry skin (S)	1	396						Role Functioning	0.18	0.002	0.002
Dry skin (S)	1	396						Emotional Functioning	0.15	0.002	0.006
Dry skin (S)	1	396						Cognitive Functioning	0.18	<0.001	0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Dry skin (S)	1	396						Social Functioning	0.21	<0.001	<0.001
Dry skin (S)	1	396						Global Health Status/QoL	0.22	<0.001	<0.001
Dry skin (S)	1	393						HRQL Summary Score	0.25	<0.001	<0.001
Dry skin (S)	2	374	ECOG PS 2-4	ECOG PS 0-1	0.13	0.91	0.14			0.38	0.77
Dry skin (S)	2	368						Physical Functioning	0.29	<0.001	<0.001
Dry skin (S)	2	358						Role Functioning	0.28	<0.001	<0.001
Dry skin (S)	2	358						Emotional Functioning	0.31	<0.001	<0.001
Dry skin (S)	2	358						Cognitive Functioning	0.26	<0.001	<0.001
Dry skin (S)	2	358						Social Functioning	0.31	<0.001	<0.001
Dry skin (S)	2	358						Global Health Status/QoL	0.26	<0.001	<0.001
Dry skin (S)	2	354						HRQL Summary Score	0.37	<0.001	<0.001
Ejaculation problems (F)	1	75	ECOG PS 2-4	ECOG PS 0-1	-0.77	1.68	-0.46			0.29	0.96
Ejaculation problems (F)	1	75						Physical Functioning	0.20	0.08	0.96
Ejaculation problems (F)	1	75						Role Functioning	0.26	0.02	0.35
Ejaculation problems (F)	1	75						Emotional Functioning	0.09	0.45	0.96
Ejaculation problems (F)	1	75						Cognitive Functioning	-0.01	0.96	0.96
Ejaculation problems (F)	1	75						Social Functioning	0.18	0.13	0.96
Ejaculation problems (F)	1	75						Global Health Status/QoL	0.11	0.34	0.96
Ejaculation problems (F)	1	75						HRQL Summary Score	0.14	0.24	0.96
Ejaculation problems (F)	2	61	ECOG PS 2-4	ECOG PS 0-1	-0.98	1.59	-0.62			0.19	0.96
Ejaculation problems (F)	2	61						Physical Functioning	0.27	0.04	0.54
Ejaculation problems (F)	2	60						Role Functioning	0.26	0.046	0.64
Ejaculation problems (F)	2	60						Emotional Functioning	0.11	0.42	0.96
Ejaculation problems (F)	2	60						Cognitive Functioning	0.10	0.44	0.96
Ejaculation problems (F)	2	60						Social Functioning	0.16	0.22	0.96
Ejaculation problems (F)	2	60						Global Health Status/QoL	0.08	0.53	0.96
Ejaculation problems (F)	2	59						HRQL Summary Score	0.22	0.1	0.96
Fatigue (S)	1	878	ECOG PS 2-4	ECOG PS 0-1	0.76	1.03	0.74			<0.001	<0.001
Fatigue (S)	1	878	Chemotherapy in prior 2 weeks	Other	0.17	1.06	0.16			0.02	0.1
Fatigue (S)	1	878	Currently taking anxiety med	Other	0.38	1.05	0.36			<0.001	<0.001
Fatigue (S)	1	878	Radiation therapy in prior 2 weeks	Other	0.02	1.07	0.02			0.81	0.89
Fatigue (S)	1	878	Sleep aid in prior week	Other	0.39	1.05	0.37			<0.001	<0.001
Fatigue (S)	1	878	Surgery in prior 2 weeks	Other	-0.03	1.07	-0.02			0.89	0.89
Fatigue (S)	1	861						Physical Functioning	0.59	<0.001	<0.001
Fatigue (S)	1	861						Role Functioning	0.60	<0.001	<0.001
Fatigue (S)	1	858						Emotional Functioning	0.46	<0.001	<0.001
Fatigue (S)	1	858						Cognitive Functioning	0.46	<0.001	<0.001
Fatigue (S)	1	858						Social Functioning	0.53	<0.001	<0.001
Fatigue (S)	1	858						Global Health Status/QoL	0.56	<0.001	<0.001
Fatigue (S)	1	855						HRQL Summary Score	0.72	<0.001	<0.001
Fatigue (S)	1	861						Fatigue	0.76	<0.001	<0.001
Fatigue (S)	2	813	ECOG PS 2-4	ECOG PS 0-1	0.63	1.00	0.63			0.28	0.89
Fatigue (S)	2	813	Chemotherapy in prior 2 weeks	Other	0.08	1.02	0.08			0.03	0.02
Fatigue (S)	2	813	Currently taking anxiety med	Other	0.25	1.02	0.24			0.81	0.89
Fatigue (S)	2	813	Radiation therapy in prior 2 weeks	Other	0.02	1.03	0.02			<0.001	<0.001
Fatigue (S)	2	813	Sleep aid in prior week	Other	0.48	1.01	0.47			<0.001	<0.001
Fatigue (S)	2	813	Surgery in prior 2 weeks	Other	0.31	1.02	0.30			0.15	0.76
Fatigue (S)	2	790						Physical Functioning	0.60	<0.001	<0.001
Fatigue (S)	2	788						Role Functioning	0.59	<0.001	<0.001
Fatigue (S)	2	788						Emotional Functioning	0.43	<0.001	<0.001
Fatigue (S)	2	788						Cognitive Functioning	0.44	<0.001	<0.001
Fatigue (S)	2	787						Social Functioning	0.53	<0.001	<0.001
Fatigue (S)	2	788						Global Health Status/QoL	0.55	<0.001	<0.001
Fatigue (S)	2	781						HRQL Summary Score	0.69	<0.001	<0.001
Fatigue (S)	2	790						Fatigue	0.73	<0.001	<0.001
Fatigue (I)	1	875	ECOG PS 2-4	ECOG PS 0-1	0.83	1.18	0.71			<0.001	<0.001
Fatigue (I)	1	875	Chemotherapy in prior 2 weeks	Other	0.20	1.22	0.17			0.01	0.09
Fatigue (I)	1	875	Currently taking anxiety med	Other	0.50	1.20	0.42			<0.001	<0.001
Fatigue (I)	1	875	Radiation therapy in prior 2 weeks	Other	0.10	1.22	0.08			0.24	0.73
Fatigue (I)	1	875	Sleep aid in prior week	Other	0.47	1.21	0.39			<0.001	<0.001
Fatigue (I)	1	875	Surgery in prior 2 weeks	Other	-0.05	1.22	-0.04			0.82	0.82
Fatigue (I)	1	858						Physical Functioning	0.61	<0.001	<0.001
Fatigue (I)	1	858						Role Functioning	0.65	<0.001	<0.001
Fatigue (I)	1	855						Emotional Functioning	0.46	<0.001	<0.001
Fatigue (I)	1	855						Cognitive Functioning	0.44	<0.001	<0.001
Fatigue (I)	1	855						Social Functioning	0.61	<0.001	<0.001
Fatigue (I)	1	855						Global Health Status/QoL	0.55	<0.001	<0.001
Fatigue (I)	1	852						HRQL Summary Score	0.74	<0.001	<0.001
Fatigue (I)	1	858						Fatigue	0.74	<0.001	<0.001
Fatigue (I)	2	813	ECOG PS 2-4	ECOG PS 0-1	0.69	1.16	0.60			<0.001	<0.001
Fatigue (I)	2	813	Chemotherapy in prior 2 weeks	Other	0.04	1.19	0.03			0.66	0.82
Fatigue (I)	2	813	Currently taking anxiety med	Other	0.42	1.18	0.36			<0.001	<0.001
Fatigue (I)	2	813	Radiation therapy in prior 2 weeks	Other	0.16	1.19	0.14			0.049	0.24

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Fatigue (I)	2	813	Sleep aid in prior week	Other	0.65	1.16	0.56			<0.001	<0.001
Fatigue (I)	2	813	Surgery in prior 2 weeks	Other	0.38	1.19	0.32			0.13	0.54
Fatigue (I)	2	790						Physical Functioning	0.59	<0.001	<0.001
Fatigue (I)	2	790						Role Functioning	0.63	<0.001	<0.001
Fatigue (I)	2	788						Emotional Functioning	0.43	<0.001	<0.001
Fatigue (I)	2	788						Cognitive Functioning	0.44	<0.001	<0.001
Fatigue (I)	2	788						Social Functioning	0.59	<0.001	<0.001
Fatigue (I)	2	781						Global Health Status/QoL	0.52	<0.001	<0.001
Fatigue (I)	2	790						HRQOL Summary Score	0.70	<0.001	<0.001
Feelings that nothing could cheer you up (F)	1	815	ECOG PS 2-4	ECOG PS 0-1	0.52	0.94	0.55			<0.001	<0.001
Feelings that nothing could cheer you up (F)	1	815	Currently taking depression med	Other	0.49	0.95	0.52			<0.001	<0.001
Feelings that nothing could cheer you up (F)	1	799						Physical Functioning	0.30	<0.001	<0.001
Feelings that nothing could cheer you up (F)	1	799						Role Functioning	0.36	<0.001	<0.001
Feelings that nothing could cheer you up (F)	1	796						Emotional Functioning	0.57	<0.001	<0.001
Feelings that nothing could cheer you up (F)	1	796						Cognitive Functioning	0.38	<0.001	<0.001
Feelings that nothing could cheer you up (F)	1	796						Social Functioning	0.38	<0.001	<0.001
Feelings that nothing could cheer you up (F)	1	794						Global Health Status/QoL	0.38	<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	748	ECOG PS 2-4	ECOG PS 0-1	0.51	0.94	0.54			<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	748	Currently taking depression med	Other	0.58	0.94	0.61			<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	726						Physical Functioning	0.35	<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	724						Role Functioning	0.36	<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	724						Emotional Functioning	0.61	<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	723						Cognitive Functioning	0.43	<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	724						Social Functioning	0.39	<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	717						Global Health Status/QoL	0.43	<0.001	<0.001
Feelings that nothing could cheer you up (F)	2	717						HRQOL Summary Score	0.50	<0.001	<0.001
Feelings that nothing could cheer you up (S)	1	815	ECOG PS 2-4	ECOG PS 0-1	0.44	0.86	0.52			<0.001	<0.001
Feelings that nothing could cheer you up (S)	1	815	Currently taking depression med	Other	0.45	0.86	0.52			<0.001	<0.001
Feelings that nothing could cheer you up (S)	1	799						Physical Functioning	0.29	<0.001	<0.001
Feelings that nothing could cheer you up (S)	1	799						Role Functioning	0.35	<0.001	<0.001
Feelings that nothing could cheer you up (S)	1	796						Emotional Functioning	0.57	<0.001	<0.001
Feelings that nothing could cheer you up (S)	1	796						Cognitive Functioning	0.36	<0.001	<0.001
Feelings that nothing could cheer you up (S)	1	796						Social Functioning	0.37	<0.001	<0.001
Feelings that nothing could cheer you up (S)	1	794						Global Health Status/QoL	0.35	<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	748	ECOG PS 2-4	ECOG PS 0-1	0.47	0.80	0.59			<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	748	Currently taking depression med	Other	0.51	0.79	0.65			<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	726						Physical Functioning	0.37	<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	726						Role Functioning	0.35	<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	724						Emotional Functioning	0.59	<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	724						Cognitive Functioning	0.41	<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	723						Social Functioning	0.37	<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	724						Global Health Status/QoL	0.40	<0.001	<0.001
Feelings that nothing could cheer you up (S)	2	717						HRQOL Summary Score	0.50	<0.001	<0.001
Feelings that nothing could cheer you up (I)	1	815	ECOG PS 2-4	ECOG PS 0-1	0.37	0.86	0.43			<0.001	<0.001
Feelings that nothing could cheer you up (I)	1	815	Currently taking depression med	Other	0.42	0.86	0.49			<0.001	<0.001
Feelings that nothing could cheer you up (I)	1	799						Physical Functioning	0.30	<0.001	<0.001
Feelings that nothing could cheer you up (I)	1	799						Role Functioning	0.33	<0.001	<0.001
Feelings that nothing could cheer you up (I)	1	796						Emotional Functioning	0.54	<0.001	<0.001
Feelings that nothing could cheer you up (I)	1	796						Cognitive Functioning	0.32	<0.001	<0.001
Feelings that nothing could cheer you up (I)	1	796						Social Functioning	0.39	<0.001	<0.001
Feelings that nothing could cheer you up (I)	1	794						Global Health Status/QoL	0.35	<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	748	ECOG PS 2-4	ECOG PS 0-1	0.50	0.82	0.61			<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	748	Currently taking depression med	Other	0.52	0.82	0.64			<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	726						Physical Functioning	0.39	<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	726						Role Functioning	0.40	<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	724						Emotional Functioning	0.59	<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	724						Cognitive Functioning	0.41	<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	723						Social Functioning	0.38	<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	724						Global Health Status/QoL	0.37	<0.001	<0.001
Feelings that nothing could cheer you up (I)	2	717						HRQOL Summary Score	0.51	<0.001	<0.001
Flashing lights in eyes (P)	1	269	ECOG PS 2-4	ECOG PS 0-1	-1.11%		-0.04			0.83	0.91
Flashing lights in eyes (P)	1	266						Physical Functioning	0.05	0.41	0.91
Flashing lights in eyes (P)	1	266						Role Functioning	0.03	0.6	0.91
Flashing lights in eyes (P)	1	262						Emotional Functioning	0.08	0.21	0.91
Flashing lights in eyes (P)	1	262						Cognitive Functioning	0.14	0.03	0.35
Flashing lights in eyes (P)	1	262						Social Functioning	-0.04	0.48	0.91
Flashing lights in eyes (P)	1	262						Global Health Status/QoL	0.01	0.91	0.91
Flashing lights in eyes (P)	2	236	ECOG PS 2-4	ECOG PS 0-1	19.86%		0.54			0.39	0.91
Flashing lights in eyes (P)	2	236						HRQOL Summary Score	0.05	<0.001	0.01

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Flashing lights in eyes (P)	2	234						Physical Functioning	0.11	0.09	0.91
Flashing lights in eyes (P)	2	234						Role Functioning	0.05	0.41	0.91
Flashing lights in eyes (P)	2	234						Emotional Functioning	0.15	0.02	0.3
Flashing lights in eyes (P)	2	234						Cognitive Functioning	0.18	0.007	0.1
Flashing lights in eyes (P)	2	234						Social Functioning	0.13	0.06	0.67
Flashing lights in eyes (P)	2	234						Global Health Status/QoL	0.01	0.87	0.91
Flashing lights in eyes (P)	2	234						HRQOL Summary Score	0.08	0.23	0.6
Frequent urination (F)	1	223	ECOG PS 2-4	ECOG PS 0-1	0.13	1.26	0.10	Physical Functioning		0.002	0.03
Frequent urination (F)	1	56	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	1.08	1.17	0.92	Role Functioning		0.27	0.6
Frequent urination (F)	1	222						Emotional Functioning	0.09	0.16	0.6
Frequent urination (F)	1	222						Cognitive Functioning	0.14	0.03	0.31
Frequent urination (F)	1	222						Social Functioning	0.07	0.31	0.6
Frequent urination (F)	1	222						Global Health Status/QoL	0.16	0.02	0.16
Frequent urination (F)	1	222						HRQOL Summary Score	0.16	0.02	0.16
Frequent urination (F)	1	220						Physical Functioning	0.17	0.01	0.13
Frequent urination (F)	2	194	ECOG PS 2-4	ECOG PS 0-1	0.23	1.21	0.19	Role Functioning		0.37	0.6
Frequent urination (F)	2	49	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	1.20	1.16	1.03	Emotional Functioning		0.001	0.02
Frequent urination (F)	2	192						Cognitive Functioning	0.13	0.07	0.56
Frequent urination (F)	2	192						Social Functioning	0.12	0.09	0.6
Frequent urination (F)	2	191						Global Health Status/QoL	0.21	0.004	0.06
Frequent urination (F)	2	191						HRQOL Summary Score	0.18	0.01	0.16
Frequent urination (F)	2	190						Physical Functioning	0.11	0.14	0.6
Frequent urination (F)	2	191						Role Functioning	0.19	0.009	0.13
Frequent urination (F)	2	188						Emotional Functioning	0.22	0.003	0.04
Frequent urination (F)	2	188	ECOG PS 2-4	ECOG PS 0-1	0.18	1.16	0.15	Physical Functioning		0.43	0.43
Frequent urination (F)	1	55	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	0.62	1.21	0.51	Role Functioning		0.07	0.22
Frequent urination (F)	1	221						Emotional Functioning	0.22	0.001	0.02
Frequent urination (F)	1	221						Cognitive Functioning	0.18	0.008	0.08
Frequent urination (F)	1	221						Social Functioning	0.20	0.003	0.03
Frequent urination (F)	1	221						Global Health Status/QoL	0.12	0.07	0.22
Frequent urination (F)	1	221						HRQOL Summary Score	0.28	<0.001	<0.001
Frequent urination (F)	1	221						Physical Functioning	0.15	0.02	0.15
Frequent urination (F)	1	219						Role Functioning	0.31	<0.001	<0.001
Frequent urination (F)	2	194	ECOG PS 2-4	ECOG PS 0-1	0.24	1.05	0.23	Emotional Functioning		0.28	0.43
Frequent urination (F)	2	49	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	0.86	0.92	0.94	Cognitive Functioning		0.03	0.03
Frequent urination (F)	2	192						Social Functioning	0.14	0.047	0.22
Frequent urination (F)	2	192						Global Health Status/QoL	0.16	0.02	0.15
Frequent urination (F)	2	191						HRQOL Summary Score	0.26	<0.001	0.004
Frequent urination (F)	2	191						Physical Functioning	0.16	0.02	0.15
Frequent urination (F)	2	191						Role Functioning	0.20	0.03	0.15
Frequent urination (F)	2	190						Emotional Functioning	0.16	0.03	0.07
Frequent urination (F)	2	191						Social Functioning	0.20	0.006	0.07
Frequent urination (F)	2	188						Global Health Status/QoL	0.19	0.01	0.09
Frequent urination (F)	2	188	ECOG PS 2-4	ECOG PS 0-1	0.07	1.50	0.05	HRQOL Summary Score		0.01	0.02
Hair loss (A)	1	815	ECOG PS 2-4	Other	0.45	1.48	0.31	Physical Functioning		0.58	0.84
Hair loss (A)	1	799	Chemotherapy in prior 2 weeks					Role Functioning		<0.001	<0.001
Hair loss (A)	1	799						Emotional Functioning	0.11	0.001	0.01
Hair loss (A)	1	796						Cognitive Functioning	0.14	<0.001	<0.001
Hair loss (A)	1	796						Social Functioning	0.10	0.003	0.03
Hair loss (A)	1	796						Global Health Status/QoL	0.18	<0.001	<0.001
Hair loss (A)	1	796						HRQOL Summary Score	0.17	<0.001	<0.001
Hair loss (A)	1	794						Physical Functioning	0.10	0.006	0.04
Hair loss (A)	1	794						Role Functioning	0.10	0.006	0.04
Hair loss (A)	1	748	ECOG PS 2-4	ECOG PS 0-1	-0.03	1.45	-0.02	Emotional Functioning		0.84	0.84
Hair loss (A)	2	748	Chemotherapy in prior 2 weeks	Other	0.41	1.43	0.29	Cognitive Functioning		<0.001	<0.001
Hair loss (A)	2	726						Social Functioning	0.10	0.005	0.04
Hair loss (A)	2	726						Global Health Status/QoL	0.11	0.003	0.03
Hair loss (A)	2	724						HRQOL Summary Score	0.08	0.03	0.09
Hair loss (A)	2	724						Physical Functioning	0.08	0.03	0.09
Hair loss (A)	2	723						Role Functioning	0.09	0.01	0.07
Hair loss (A)	2	724						Emotional Functioning	0.09	0.02	0.09
Hair loss (A)	2	717						Global Health Status/QoL	0.15	<0.001	0.001
Hand-foot syndrome (S)	1	456	ECOG PS 2-4	ECOG PS 0-1	-0.02	0.62	-0.03	Physical Functioning		0.82	0.95
Hand-foot syndrome (S)	1	456	Hand-foot syndrome-inducing chemotherapy [footnote 1] in prior 2 weeks	Other	0.24	0.62	0.39	Role Functioning		0.02	0.26
Hand-foot syndrome (S)	1	441						Emotional Functioning	0.08	0.09	0.95
Hand-foot syndrome (S)	1	441						Cognitive Functioning	0.06	0.25	0.95
Hand-foot syndrome (S)	1	441						Social Functioning	0.00	0.95	0.95
Hand-foot syndrome (S)	1	441						Global Health Status/QoL	0.04	0.4	0.95
Hand-foot syndrome (S)	1	441						HRQOL Summary Score	0.05	0.32	0.95
Hand-foot syndrome (S)	1	441						Physical Functioning	0.08	0.11	0.95
Hand-foot syndrome (S)	1	438						Role Functioning	0.09	0.07	0.8
Hand-foot syndrome (S)	2	416	ECOG PS 2-4	ECOG PS 0-1	0.02	0.67	0.03	Emotional Functioning		0.82	0.95
Hand-foot syndrome (S)	2	416	Hand-foot syndrome-inducing chemotherapy [footnote 1] in prior 2 weeks	Other	0.25	0.66	0.37	Cognitive Functioning		0.01	0.47
Hand-foot syndrome (S)	2	400						Global Health Status/QoL	0.13	0.03	0.18
Hand-foot syndrome (S)	2	400						HRQOL Summary Score	0.13	0.01	0.18

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Hand-foot syndrome (S)	2	400						Role Functioning	0.06	0.26	0.95
Hand-foot syndrome (S)	2	400						Emotional Functioning	0.12	0.02	0.26
Hand-foot syndrome (S)	2	400						Cognitive Functioning	0.10	0.04	0.47
Hand-foot syndrome (S)	2	400						Social Functioning	0.04	0.44	0.95
Hand-foot syndrome (S)	2	396						Global Health Status/QoL	0.08	0.1	0.95
Hand-foot syndrome (S)	2	396						HRQOL Summary Score	0.13	0.01	0.2
Headache (F)	1	837	ECOG PS 2-4	ECOG PS 0-1	0.18	0.94	0.19	Physical Functioning	0.13	0.04	0.07
Headache (F)	1	821						Role Functioning	0.18	<0.001	<0.001
Headache (F)	1	821						Emotional Functioning	0.23	<0.001	<0.001
Headache (F)	1	818						Cognitive Functioning	0.23	<0.001	<0.001
Headache (F)	1	818						Social Functioning	0.17	<0.001	<0.001
Headache (F)	1	818						Global Health Status/QoL	0.18	<0.001	<0.001
Headache (F)	1	816						HRQOL Summary Score	0.29	<0.001	<0.001
Headache (F)	2	772	ECOG PS 2-4	ECOG PS 0-1	0.14	0.91	0.15	Physical Functioning	0.11	0.03	0.13
Headache (F)	2	750						Role Functioning	0.16	0.003	0.01
Headache (F)	2	750						Emotional Functioning	0.18	<0.001	<0.001
Headache (F)	2	748						Cognitive Functioning	0.19	<0.001	<0.001
Headache (F)	2	748						Social Functioning	0.13	<0.001	<0.001
Headache (F)	2	747						Global Health Status/QoL	0.17	<0.001	<0.001
Headache (F)	2	748						HRQOL Summary Score	0.26	<0.001	<0.001
Headache (F)	2	741						Physical Functioning	0.15	0.01	0.02
Headache (S)	1	836	ECOG PS 2-4	ECOG PS 0-1	0.20	0.87	0.23	Physical Functioning	0.21	<0.001	<0.001
Headache (S)	1	820						Emotional Functioning	0.22	<0.001	<0.001
Headache (S)	1	820						Cognitive Functioning	0.22	<0.001	<0.001
Headache (S)	1	817						Social Functioning	0.20	<0.001	<0.001
Headache (S)	1	817						Global Health Status/QoL	0.20	<0.001	<0.001
Headache (S)	1	817						HRQOL Summary Score	0.31	<0.001	<0.001
Headache (S)	1	817						Physical Functioning	0.11	0.03	0.03
Headache (S)	2	772	ECOG PS 2-4	ECOG PS 0-1	0.18	0.85	0.21	Physical Functioning	0.18	0.002	0.007
Headache (S)	2	750						Role Functioning	0.20	<0.001	<0.001
Headache (S)	2	750						Emotional Functioning	0.19	<0.001	<0.001
Headache (S)	2	748						Cognitive Functioning	0.17	<0.001	<0.001
Headache (S)	2	747						Social Functioning	0.18	<0.001	<0.001
Headache (S)	2	748						Global Health Status/QoL	0.18	<0.001	<0.001
Headache (S)	2	741						HRQOL Summary Score	0.29	<0.001	<0.001
Headache (I)	1	836	ECOG PS 2-4	ECOG PS 0-1	0.22	0.83	0.27	Physical Functioning	0.21	0.003	0.006
Headache (I)	1	820						Role Functioning	0.27	<0.001	<0.001
Headache (I)	1	820						Emotional Functioning	0.28	<0.001	<0.001
Headache (I)	1	817						Cognitive Functioning	0.27	<0.001	<0.001
Headache (I)	1	817						Social Functioning	0.31	<0.001	<0.001
Headache (I)	1	817						Global Health Status/QoL	0.25	<0.001	<0.001
Headache (I)	1	817						HRQOL Summary Score	0.39	<0.001	<0.001
Headache (I)	1	815						Physical Functioning	0.17	0.11	0.11
Headache (I)	2	771	ECOG PS 2-4	ECOG PS 0-1	0.13	0.80	0.16	Physical Functioning	0.24	<0.001	<0.001
Headache (I)	2	749						Role Functioning	0.24	<0.001	<0.001
Headache (I)	2	749						Emotional Functioning	0.24	<0.001	<0.001
Headache (I)	2	747						Cognitive Functioning	0.22	<0.001	<0.001
Headache (I)	2	746						Social Functioning	0.22	<0.001	<0.001
Headache (I)	2	747						Global Health Status/QoL	0.20	<0.001	<0.001
Headache (I)	2	747						HRQOL Summary Score	0.32	<0.001	<0.001
Headache (I)	2	740						Physical Functioning	0.17	0.003	0.33
Heartburn (F)	1	252	ECOG PS 2-4	ECOG PS 0-1	0.19	1.10	0.17	Physical Functioning	0.17	<0.001	<0.001
Heartburn (F)	1	252	Antacid in prior week	Other	0.65	1.05	0.62	Role Functioning	0.17	0.008	0.04
Heartburn (F)	1	249						Emotional Functioning	0.15	0.02	0.08
Heartburn (F)	1	246						Cognitive Functioning	0.28	<0.001	<0.001
Heartburn (F)	1	246						Social Functioning	0.22	<0.001	0.005
Heartburn (F)	1	246						Global Health Status/QoL	0.18	0.006	0.04
Heartburn (F)	1	246						HRQOL Summary Score	0.26	<0.001	<0.001
Heartburn (F)	1	244						Physical Functioning	0.20	0.06	0.17
Heartburn (F)	2	222	ECOG PS 2-4	ECOG PS 0-1	0.37	1.04	0.35	Physical Functioning	0.20	<0.001	<0.001
Heartburn (F)	2	222	Antacid in prior week	Other	0.75	0.98	0.76	Role Functioning	0.20	0.003	0.02
Heartburn (F)	2	220						Emotional Functioning	0.22	0.003	0.02
Heartburn (F)	2	220						Cognitive Functioning	0.12	0.001	0.01
Heartburn (F)	2	220						Social Functioning	0.18	0.008	0.17
Heartburn (F)	2	220						Global Health Status/QoL	0.26	<0.001	0.04
Heartburn (F)	2	220						HRQOL Summary Score	0.35	<0.001	<0.001
Heartburn (F)	2	220						Physical Functioning	0.20	<0.001	<0.001
Heartburn (F)	2	220						Role Functioning	0.20	0.003	0.02
Heartburn (F)	2	220						Emotional Functioning	0.22	0.001	0.01
Heartburn (F)	2	220						Cognitive Functioning	0.12	0.008	0.17
Heartburn (F)	2	220						Social Functioning	0.18	0.008	0.04
Heartburn (F)	2	220						Global Health Status/QoL	0.26	<0.001	0.001
Heartburn (F)	2	220						HRQOL Summary Score	0.35	<0.001	<0.001
Heartburn (S)	1	252	ECOG PS 2-4	ECOG PS 0-1	0.28	1.00	0.28	Physical Functioning	0.20	<0.001	<0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Heartburn (S)	1	252	Antacid in prior week	Other	0.67	0.95	0.70	Physical Functioning	0.20	<0.001	<0.001
Heartburn (S)	1	249					Role Functioning	0.18	0.004	0.02	0.02
Heartburn (S)	1	249					Emotional Functioning	0.29	<0.001	0.03	0.03
Heartburn (S)	1	246					Cognitive Functioning	0.27	<0.001	<0.001	<0.001
Heartburn (S)	1	246					Social Functioning	0.19	0.003	0.03	0.03
Heartburn (S)	1	246					Global Health Status/QoL	0.29	<0.001	<0.001	<0.001
Heartburn (S)	1	244					HRQL Summary Score	0.36	0.11	0.13	0.13
Heartburn (S)	2	222	ECOG PS 2-4	ECOG PS 0-1	0.28	0.93	0.30	Physical Functioning	0.16	<0.001	<0.001
Heartburn (S)	2	222	Antacid in prior week	Other	0.66	0.87	0.75	Role Functioning	0.16	0.02	0.06
Heartburn (S)	2	220					Emotional Functioning	0.19	0.005	0.04	0.04
Heartburn (S)	2	220					Cognitive Functioning	0.17	0.01	0.06	0.06
Heartburn (S)	2	220					Social Functioning	0.10	0.13	0.13	0.13
Heartburn (S)	2	220					Global Health Status/QoL	0.18	0.007	0.04	0.04
Heartburn (S)	2	220					HRQL Summary Score	0.24	<0.001	0.05	0.05
Hiccups (F)	1	428	ECOG PS 2-4	ECOG PS 0-1	0.27	0.85	0.32	Physical Functioning	0.16	0.01	0.1
Hiccups (F)	1	428	Currently taking nausea med	Other	0.29	0.85	0.34	Role Functioning	0.16	<0.001	<0.001
Hiccups (F)	1	428	Lung/Head/Neck/Gastrointestinal	Other	0.22	0.85	0.26	Emotional Functioning	0.17	<0.001	0.07
Hiccups (F)	1	418					Cognitive Functioning	0.19	<0.001	<0.001	
Hiccups (F)	1	415					Social Functioning	0.20	<0.001	<0.001	
Hiccups (F)	1	415					Global Health Status/QoL	0.18	<0.001	0.004	
Hiccups (F)	1	415					HRQL Summary Score	0.27	<0.001	<0.001	
Hiccups (F)	2	381	ECOG PS 2-4	ECOG PS 0-1	0.08	0.77	0.11	Physical Functioning	0.12	0.46	0.46
Hiccups (F)	2	381	Currently taking nausea med	Other	0.24	0.77	0.31	Role Functioning	0.05	0.004	0.03
Hiccups (F)	2	375	Lung/Head/Neck/Gastrointestinal	Other	0.11	0.77	0.14	Emotional Functioning	0.15	0.26	0.46
Hiccups (F)	2	375					Cognitive Functioning	0.12	0.003	0.03	
Hiccups (F)	2	373					Social Functioning	0.11	0.02	0.1	
Hiccups (F)	2	373					Global Health Status/QoL	0.17	0.001	0.01	
Hiccups (F)	2	373					HRQL Summary Score	0.17	<0.001	0.009	
Hiccups (F)	2	372					HRQL Summary Score	0.19	<0.001	0.004	
Hiccups (S)	1	428	ECOG PS 2-4	ECOG PS 0-1	0.14	0.73	0.20	Physical Functioning	0.13	0.13	0.51
Hiccups (S)	1	428	Currently taking nausea med	Other	0.24	0.72	0.34	Role Functioning	0.13	<0.001	0.01
Hiccups (S)	1	418	Lung/Head/Neck/Gastrointestinal	Other	0.19	0.73	0.26	Emotional Functioning	0.16	0.007	0.16
Hiccups (S)	1	415					Cognitive Functioning	0.18	0.001	0.01	
Hiccups (S)	1	415					Social Functioning	0.21	<0.001	0.002	
Hiccups (S)	1	415					Global Health Status/QoL	0.21	<0.001	<0.001	
Hiccups (S)	1	415					HRQL Summary Score	0.26	<0.001	<0.001	
Hiccups (S)	2	381	ECOG PS 2-4	ECOG PS 0-1	0.06	0.72	0.09	Physical Functioning	0.06	0.55	0.55
Hiccups (S)	2	381	Currently taking nausea med	Other	0.25	0.71	0.35	Role Functioning	0.06	0.001	0.01
Hiccups (S)	2	375	Lung/Head/Neck/Gastrointestinal	Other	0.12	0.71	0.17	Emotional Functioning	0.18	0.19	0.53
Hiccups (S)	2	375					Cognitive Functioning	0.14	0.26	0.53	
Hiccups (S)	2	373					Social Functioning	0.11	<0.001	0.006	
Hiccups (S)	2	373					Global Health Status/QoL	0.21	0.03	0.17	
Hiccups (S)	2	373					HRQL Summary Score	0.21	<0.001	<0.001	
Hives (P)	1	409	ECOG PS 2-4	ECOG PS 0-1	-1.35%		-0.05	Physical Functioning	0.22	0.75	0.92
Hives (P)	1	409	Chemotherapy in prior 2 weeks	Other	2.17%		0.07	Role Functioning	0.03	0.47	0.92
Hives (P)	1	394	Skin-reaction chemotherapy [footnote 2] in prior 2 weeks	Other	6.07%		0.20	Emotional Functioning	0.00	0.045	0.9
Hives (P)	1	394					Cognitive Functioning	0.03	0.54	0.92	
Hives (P)	1	394					Social Functioning	0.03	0.92	0.92	
Hives (P)	1	394					Global Health Status/QoL	0.09	0.08	0.92	
Hives (P)	1	394					HRQL Summary Score	0.03	0.61	0.92	
Hives (P)	1	391					Physical Functioning	0.01	0.77	0.92	
Hives (P)	2	372	ECOG PS 2-4	ECOG PS 0-1	-2.45%		-0.09	Role Functioning	0.03	0.55	0.92
Hives (P)	2	372	Chemotherapy in prior 2 weeks	Other	-0.53%		-0.02	Emotional Functioning	0.03	0.6	0.92
Hives (P)	2	372	Skin-reaction chemotherapy [footnote 2] in prior 2 weeks	Other	1.90%		0.06	Cognitive Functioning	0.03	0.86	0.92
Hives (P)	2	356					Social Functioning	0.01	0.55	0.92	
Hives (P)	2	356					Global Health Status/QoL	0.03	0.77	0.92	
Hives (P)	2	356					HRQL Summary Score	0.03	0.55	0.92	
Hives (P)	2	356					Physical Functioning	0.01	0.6	0.92	
Hives (P)	2	356					Role Functioning	0.01	0.87	0.92	
Hives (P)	2	356					Emotional Functioning	-0.01	0.91	0.92	
Hives (P)	2	356					HRQL Summary Score	-0.01	0.84	0.92	

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Hives (P)	2	356						Cognitive Functioning	0.03	0.54	0.92
Hives (P)	2	356						Social Functioning	0.08	0.15	0.92
Hives (P)	2	356						Global Health Status/QoL	-0.03	0.59	0.92
Hives (P)	2	352						HRQOL Summary Score	-0.02	0.73	0.92
Hoarse voice (S)	1	253	ECOG PS 2-4	ECOG PS 0-1	0.04	0.97	0.04			0.82	0.82
Hoarse voice (S)	1	253	Head/Neck with radiation therapy in prior 2 weeks	Other	0.28	0.96	0.29			0.01	0.1
Hoarse voice (S)	1	250						Physical Functioning	0.16	0.02	0.08
Hoarse voice (S)	1	250						Role Functioning	0.21	<0.001	0.007
Hoarse voice (S)	1	247						Emotional Functioning	0.27	<0.001	<0.001
Hoarse voice (S)	1	247						Cognitive Functioning	0.23	<0.001	0.003
Hoarse voice (S)	1	247						Social Functioning	0.20	0.002	0.02
Hoarse voice (S)	1	247						Global Health Status/QoL	0.24	<0.001	0.002
Hoarse voice (S)	1	245						HRQOL Summary Score	0.34	<0.001	<0.001
Hoarse voice (S)	1	245							0.75	0.02	0.82
Hoarse voice (S)	2	222	ECOG PS 2-4	ECOG PS 0-1	0.06	1.02	0.06			0.002	0.02
Hoarse voice (S)	2	222	Head/Neck with radiation therapy in prior 2 weeks	Other	0.42	1.00	0.42			0.005	0.04
Hoarse voice (S)	2	220						Physical Functioning	0.19	<0.001	<0.001
Hoarse voice (S)	2	220						Role Functioning	0.27	<0.001	<0.001
Hoarse voice (S)	2	220						Emotional Functioning	0.16	0.02	0.09
Hoarse voice (S)	2	220						Cognitive Functioning	0.03	0.62	0.82
Hoarse voice (S)	2	220						Social Functioning	0.25	<0.001	0.003
Hoarse voice (S)	2	220						Global Health Status/QoL	0.18	0.007	0.05
Hoarse voice (S)	2	220						HRQOL Summary Score	0.34	<0.001	<0.001
Hot flashes (F)	1	369	ECOG PS 2-4	ECOG PS 0-1	-0.14	1.11	-0.13			0.46	0.46
Hot flashes (F)	1	292	Breast/Prostate	Gastrointestinal	0.49	1.14	0.43			0.004	0.06
Hot flashes (F)	1	369	Currently receiving hormone therapy	Other	0.62	1.08	0.58			<0.001	<0.001
Hot flashes (F)	1	361						Physical Functioning	0.07	0.16	0.46
Hot flashes (F)	1	361						Role Functioning	0.07	0.2	0.46
Hot flashes (F)	1	361						Emotional Functioning	0.15	0.006	0.07
Hot flashes (F)	1	361						Cognitive Functioning	0.12	0.03	0.25
Hot flashes (F)	1	361						Social Functioning	0.15	0.004	0.06
Hot flashes (F)	1	361						Global Health Status/QoL	0.14	0.14	0.46
Hot flashes (F)	1	359						HRQOL Summary Score	0.14	0.007	0.08
Hot flashes (F)	2	339	ECOG PS 2-4	ECOG PS 0-1	-0.23	1.11	-0.20			0.3	0.46
Hot flashes (F)	2	273	Breast/Prostate	Gastrointestinal	0.71	1.10	0.65			<0.001	<0.001
Hot flashes (F)	2	339	Currently receiving hormone therapy	Other	0.57	1.08	0.53			<0.001	0.002
Hot flashes (F)	2	326						Physical Functioning	0.15	0.008	0.08
Hot flashes (F)	2	326						Role Functioning	0.04	0.43	0.46
Hot flashes (F)	2	326						Emotional Functioning	0.22	<0.001	<0.001
Hot flashes (F)	2	327						Cognitive Functioning	0.27	<0.001	<0.001
Hot flashes (F)	2	327						Social Functioning	0.11	0.048	0.39
Hot flashes (F)	2	326						Global Health Status/QoL	0.10	0.07	0.46
Hot flashes (F)	2	327						HRQOL Summary Score	0.22	<0.001	0.001
Hot flashes (F)	2	321	ECOG PS 2-4	ECOG PS 0-1	-0.08	1.02	-0.08			0.64	0.64
Hot flashes (F)	2	292	Breast/Prostate	Gastrointestinal	0.45	1.05	0.42			0.005	0.049
Hot flashes (F)	2	369	Currently receiving hormone therapy	Other	0.43	1.01	0.43			0.001	0.02
Hot flashes (F)	1	361						Physical Functioning	0.10	0.06	0.29
Hot flashes (F)	1	361						Role Functioning	0.07	0.2	0.59
Hot flashes (F)	1	361						Emotional Functioning	0.18	<0.001	0.01
Hot flashes (F)	1	361						Cognitive Functioning	0.14	0.007	0.06
Hot flashes (F)	1	361						Social Functioning	0.19	<0.001	0.006
Hot flashes (F)	1	361						Global Health Status/QoL	0.12	0.03	0.15
Hot flashes (F)	1	361						HRQOL Summary Score	0.18	<0.001	0.01
Hot flashes (F)	1	359	ECOG PS 2-4	ECOG PS 0-1	-0.15	0.99	-0.15			0.44	0.64
Hot flashes (F)	2	339	Breast/Prostate	Gastrointestinal	0.61	0.98	0.62			<0.001	0.002
Hot flashes (F)	2	339	Currently receiving hormone therapy	Other	0.42	0.97	0.43			0.002	0.02
Hot flashes (F)	2	326						Physical Functioning	0.18	0.001	0.02
Hot flashes (F)	2	326						Role Functioning	0.08	0.16	0.59
Hot flashes (F)	2	327						Emotional Functioning	0.27	<0.001	<0.001
Hot flashes (F)	2	327						Cognitive Functioning	0.29	<0.001	<0.001
Hot flashes (F)	2	326						Social Functioning	0.14	0.01	0.09
Hot flashes (F)	2	327						Global Health Status/QoL	0.13	0.02	0.11
Hot flashes (F)	2	321	ECOG PS 2-4	ECOG PS 0-1	-5.78%		-0.12			0.4	0.52
Hot flashes (F)	2	331	Gastrointestinal	Lung	17.44%		0.36			0.02	0.21
Increased passing of gas (P)	1	226						Physical Functioning	0.12	0.03	0.23
Increased passing of gas (P)	1	323						Role Functioning	0.10	0.06	0.44
Increased passing of gas (P)	1	323						Emotional Functioning	0.13	0.02	0.21
Increased passing of gas (P)	1	323						Cognitive Functioning	0.16	0.004	0.07
Increased passing of gas (P)	1	323						Social Functioning	0.13	0.02	0.21
Increased passing of gas (P)	1	323						Global Health Status/QoL	0.09	0.12	0.52
Increased passing of gas (P)	1	320						HRQOL Summary Score	0.19	<0.001	0.009
Increased passing of gas (P)	2	293	ECOG PS 2-4	ECOG PS 0-1	5.94%		0.12			0.46	0.52
Increased passing of gas (P)	2	200	Gastrointestinal	Lung	5.22%		0.11			0.52	0.52

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Increased passing of gas (P)	2	288						Physical Functioning	0.16	0.007	0.09
Increased passing of gas (P)	2	288						Role Functioning	0.16	0.006	0.08
Increased passing of gas (P)	2	286						Emotional Functioning	0.06	0.34	0.52
Increased passing of gas (P)	2	286						Cognitive Functioning	0.10	0.08	0.51
Increased passing of gas (P)	2	286						Social Functioning	0.16	0.007	0.09
Increased passing of gas (P)	2	286						Global Health Status/QoL	0.14	0.02	0.21
Increased passing of gas (P)	2	285						HRQOL Summary Score	0.16	0.006	0.08
Increased skin sensitivity to sunlight (P)	1	409	ECOG PS 2-4	ECOG PS 0-1	1.27%		0.04	Physical Functioning	0.14	0.007	0.8
Increased skin sensitivity to sunlight (P)	1	394						Role Functioning	0.13	0.009	0.046
Increased skin sensitivity to sunlight (P)	1	394						Emotional Functioning	0.13	0.008	0.046
Increased skin sensitivity to sunlight (P)	1	394						Cognitive Functioning	0.17	<0.001	0.007
Increased skin sensitivity to sunlight (P)	1	394						Social Functioning	0.22	<0.001	<0.001
Increased skin sensitivity to sunlight (P)	1	394						Global Health Status/QoL	0.09	0.06	0.19
Increased skin sensitivity to sunlight (P)	1	391						HRQOL Summary Score	0.14	0.006	0.046
Increased skin sensitivity to sunlight (P)	2	372	ECOG PS 2-4	ECOG PS 0-1	-2.16%		-0.06	Physical Functioning	0.15	0.006	0.046
Increased skin sensitivity to sunlight (P)	2	356						Role Functioning	0.17	0.002	0.02
Increased skin sensitivity to sunlight (P)	2	356						Emotional Functioning	0.26	<0.001	<0.001
Increased skin sensitivity to sunlight (P)	2	356						Cognitive Functioning	0.14	0.008	0.046
Increased skin sensitivity to sunlight (P)	2	356						Social Functioning	0.28	<0.001	<0.001
Increased skin sensitivity to sunlight (P)	2	356						Global Health Status/QoL	0.13	0.01	0.049
Increased skin sensitivity to sunlight (P)	2	352						HRQOL Summary Score	0.20	<0.001	0.005
Insomnia (S)	1	855	ECOG PS 2-4	ECOG PS 0-1	0.34	1.12	0.30	Physical Functioning	0.26	<0.001	<0.001
Insomnia (S)	1	855	Chemotherapy in prior 2 weeks	Other	0.07	1.12	0.06	Role Functioning	0.28	<0.001	0.62
Insomnia (S)	1	855	Sleep aid in prior week	Other	0.81	1.08	0.75	Emotional Functioning	0.39	<0.001	<0.001
Insomnia (S)	1	855	Surgery in prior 2 weeks	Other	-0.10	1.12	-0.09	Cognitive Functioning	0.32	<0.001	<0.001
Insomnia (S)	1	839						Social Functioning	0.32	<0.001	<0.001
Insomnia (S)	1	839						Global Health Status/QoL	0.26	<0.001	<0.001
Insomnia (S)	1	836						HRQOL Summary Score	0.48	<0.001	<0.001
Insomnia (S)	1	836						Insomnia	0.78	<0.001	<0.001
Insomnia (S)	1	834							0.01	0.006	0.006
Insomnia (S)	1	839							0.37	0.62	0.62
Insomnia (S)	2	785	ECOG PS 2-4	ECOG PS 0-1	0.35	1.09	0.32	Physical Functioning	0.29	<0.001	0.62
Insomnia (S)	2	785	Chemotherapy in prior 2 weeks	Other	-0.07	1.10	-0.06	Role Functioning	0.27	<0.001	<0.001
Insomnia (S)	2	785	Sleep aid in prior week	Other	0.69	1.07	0.65	Emotional Functioning	0.37	<0.001	<0.001
Insomnia (S)	2	785	Surgery in prior 2 weeks	Other	0.20	1.10	0.18	Cognitive Functioning	0.33	<0.001	<0.001
Insomnia (S)	2	763						Social Functioning	0.29	<0.001	<0.001
Insomnia (S)	2	763						Global Health Status/QoL	0.27	<0.001	<0.001
Insomnia (S)	2	761						HRQOL Summary Score	0.50	<0.001	<0.001
Insomnia (S)	2	761						Insomnia	0.79	<0.001	<0.001
Insomnia (S)	2	760							0.4	0.4	0.62
Insomnia (S)	2	761							0.29	<0.001	<0.001
Insomnia (S)	2	760							0.27	<0.001	<0.001
Insomnia (S)	2	754							0.30	<0.001	<0.001
Insomnia (S)	2	754							0.33	<0.001	<0.001
Insomnia (S)	2	754							0.33	<0.001	<0.001
Insomnia (S)	2	763							0.42	<0.001	<0.001
Insomnia (I)	1	853	ECOG PS 2-4	ECOG PS 0-1	0.39	1.12	0.35	Physical Functioning	0.30	<0.001	<0.001
Insomnia (I)	1	853	Chemotherapy in prior 2 weeks	Other	0.04	1.13	0.03	Role Functioning	0.33	<0.001	<0.001
Insomnia (I)	1	853	Sleep aid in prior week	Other	0.77	1.09	0.71	Emotional Functioning	0.43	<0.001	<0.001
Insomnia (I)	1	853	Surgery in prior 2 weeks	Other	-0.05	1.13	-0.04	Cognitive Functioning	0.33	<0.001	<0.001
Insomnia (I)	1	837						Social Functioning	0.29	<0.001	<0.001
Insomnia (I)	1	834						Global Health Status/QoL	0.29	<0.001	<0.001
Insomnia (I)	1	834						HRQOL Summary Score	0.70	<0.001	<0.001
Insomnia (I)	1	834						Insomnia	0.70	<0.001	<0.001
Insomnia (I)	1	834							0.15	0.46	0.46
Insomnia (I)	1	832							0.09	<0.001	<0.001
Insomnia (I)	2	784	ECOG PS 2-4	ECOG PS 0-1	0.46	1.06	0.44	Physical Functioning	0.35	<0.001	<0.001
Insomnia (I)	2	784	Chemotherapy in prior 2 weeks	Other	-0.11	1.07	-0.10	Role Functioning	0.36	<0.001	<0.001
Insomnia (I)	2	784	Sleep aid in prior week	Other	0.68	1.04	0.66	Emotional Functioning	0.43	<0.001	<0.001
Insomnia (I)	2	784	Surgery in prior 2 weeks	Other	0.39	1.07	0.36	Cognitive Functioning	0.34	<0.001	<0.001
Insomnia (I)	2	762						Social Functioning	0.41	<0.001	<0.001
Insomnia (I)	2	760						Global Health Status/QoL	0.41	<0.001	<0.001
Insomnia (I)	2	759						HRQOL Summary Score	0.52	<0.001	<0.001
Insomnia (I)	2	760						Insomnia	0.68	<0.001	<0.001
Insomnia (I)	2	753							0.68	<0.001	<0.001
Insomnia (I)	2	762							0.68	<0.001	<0.001
Irregular menstrual periods (P)	1	77	ECOG PS 2-4	ECOG PS 0-1	0.00%		0.00	Physical Functioning	0.35	<0.001	1
Irregular menstrual periods (P)	1	29	Age <40	Age >60	35.51%		0.77	Role Functioning	0.36	<0.001	1
Irregular menstrual periods (P)	1	29	Age <40	Age >60	35.51%		0.77	Emotional Functioning	0.34	<0.001	1
Irregular menstrual periods (P)	1	29	Age <40	Age >60	35.51%		0.77	Cognitive Functioning	0.41	<0.001	1
Irregular menstrual periods (P)	1	29	Age <40	Age >60	35.51%		0.77	Global Health Status/QoL	0.52	<0.001	1
Irregular menstrual periods (P)	1	29	Age <40	Age >60	35.51%		0.77	HRQOL Summary Score	0.68	<0.001	1
Irregular menstrual periods (P)	1	29	Age <40	Age >60	35.51%		0.77	Insomnia	0.68	<0.001	1

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Irregular menstrual periods (P)	1	75						Physical Functioning	0.21	0.08	1
Irregular menstrual periods (P)	1	75						Role Functioning	0.25	0.03	0.54
Irregular menstrual periods (P)	1	75						Emotional Functioning	0.09	0.46	1
Irregular menstrual periods (P)	1	75						Cognitive Functioning	0.24	0.04	0.64
Irregular menstrual periods (P)	1	75						Social Functioning	0.19	0.1	1
Irregular menstrual periods (P)	1	75						Global Health Status/QoL	-0.07	0.58	1
Irregular menstrual periods (P)	2	61	ECOG PS 2-4	ECOG PS 0-1	7.63%		0.15	HRQL Summary Score	0.22	0.05	0.79
Irregular menstrual periods (P)	2	21	Age <40	Age >60	47.37%		1.52			0.83	1
Irregular menstrual periods (P)	2	59						Physical Functioning	-0.22	0.09	1
Irregular menstrual periods (P)	2	59						Role Functioning	-0.12	0.35	1
Irregular menstrual periods (P)	2	59						Emotional Functioning	0.14	0.29	1
Irregular menstrual periods (P)	2	59						Cognitive Functioning	0.09	0.48	1
Irregular menstrual periods (P)	2	59						Social Functioning	-0.18	0.17	1
Irregular menstrual periods (P)	2	59						Global Health Status/QoL	-0.33	0.01**	0.19
Irregular menstrual periods (P)	2	59						HRQL Summary Score	-0.15	0.01**	1
Itchy skin (S)	1	411	ECOG PS 2-4	ECOG PS 0-1	-0.05	0.79	-0.07	Physical Functioning	0.11	0.63	0.81
Itchy skin (S)	1	396						Role Functioning	0.09	0.03	0.25
Itchy skin (S)	1	396						Emotional Functioning	0.08	0.1	0.4
Itchy skin (S)	1	396						Cognitive Functioning	0.07	0.18	0.55
Itchy skin (S)	1	396						Social Functioning	0.13	0.01	0.11
Itchy skin (S)	1	396						Global Health Status/QoL	0.08	0.09	0.4
Itchy skin (S)	1	393						HRQL Summary Score	0.13	0.008	0.08
Itchy skin (S)	2	374	ECOG PS 2-4	ECOG PS 0-1	0.03	0.80	0.04	Physical Functioning	0.15	0.81	0.81
Itchy skin (S)	2	359						Role Functioning	0.15	0.004	0.049
Itchy skin (S)	2	359						Emotional Functioning	0.14	0.004	0.049
Itchy skin (S)	2	359						Cognitive Functioning	0.21	<0.001	0.08
Itchy skin (S)	2	359						Social Functioning	0.19	<0.001	0.005
Itchy skin (S)	2	359						Global Health Status/QoL	0.10	0.07	0.4
Itchy skin (S)	2	355						HRQL Summary Score	0.22	<0.001	<0.001
Loose stools (F)	1	817	ECOG PS 2-4	ECOG PS 0-1	0.24	1.04	0.23	Physical Functioning	0.17	0.01	0.02
Loose stools (F)	1	817	Chemotherapy in prior 2 weeks	Other	0.24	1.04	0.23	Role Functioning	0.18	<0.001	<0.001
Loose stools (F)	1	801	Diarrhea med in prior week	Other	1.51	0.97	1.56	Emotional Functioning	0.17	<0.001	<0.001
Loose stools (F)	1	801						Cognitive Functioning	0.17	<0.001	<0.001
Loose stools (F)	1	798						Social Functioning	0.16	<0.001	<0.001
Loose stools (F)	1	798						Global Health Status/QoL	0.14	<0.001	<0.001
Loose stools (F)	1	798						HRQL Summary Score	0.28	<0.001	<0.001
Loose stools (F)	1	796						Diarrhea	0.71	<0.001	<0.001
Loose stools (F)	1	801							0.02	0.02	0.02
Loose stools (F)	2	755	ECOG PS 2-4	ECOG PS 0-1	0.24	1.04	0.23	Physical Functioning	0.17	<0.001	<0.001
Loose stools (F)	2	755	Chemotherapy in prior 2 weeks	Other	0.18	1.04	0.18	Role Functioning	0.14	<0.001	<0.001
Loose stools (F)	2	755	Diarrhea med in prior week	Other	1.59	0.93	1.71	Emotional Functioning	0.12	0.001	0.006
Loose stools (F)	2	733						Cognitive Functioning	0.14	<0.001	<0.001
Loose stools (F)	2	731						Social Functioning	0.14	<0.001	<0.001
Loose stools (F)	2	730						Global Health Status/QoL	0.13	<0.001	0.002
Loose stools (F)	2	731						HRQL Summary Score	0.27	<0.001	<0.001
Loose stools (F)	2	724						Diarrhea	0.78	<0.001	<0.001
Loose any fingernails/toenails (P)	1	483	ECOG PS 2-4	ECOG PS 0-1	-2.19%		-0.14	Physical Functioning	0.00	0.38	0.99
Loose any fingernails/toenails (P)	1	468						Role Functioning	-0.03	0.99	0.99
Loose any fingernails/toenails (P)	1	468						Emotional Functioning	-0.01	0.85	0.99
Loose any fingernails/toenails (P)	1	468						Cognitive Functioning	0.10	0.03	0.4
Loose any fingernails/toenails (P)	1	468						Social Functioning	0.06	0.2	0.99
Loose any fingernails/toenails (P)	1	468						Global Health Status/QoL	-0.01	0.81	0.99
Loose any fingernails/toenails (P)	1	465						HRQL Summary Score	0.00	0.99	0.99
Loose any fingernails/toenails (P)	2	439	ECOG PS 2-4	ECOG PS 0-1	-1.90%		-0.11	Physical Functioning	0.06	0.53	0.99
Loose any fingernails/toenails (P)	2	423						Role Functioning	0.04	0.25	0.99
Loose any fingernails/toenails (P)	2	423						Emotional Functioning	0.10	0.36	0.99
Loose any fingernails/toenails (P)	2	422						Cognitive Functioning	0.06	0.048	0.72
Loose any fingernails/toenails (P)	2	422						Social Functioning	0.08	0.23	0.99
Loose any fingernails/toenails (P)	2	421						Global Health Status/QoL	0.06	0.1	0.99
Loose any fingernails/toenails (P)	2	422						HRQL Summary Score	0.06	0.25	0.99
Loose any fingernails/toenails (P)	2	415							0.09	0.08	0.99
Loss of control of bowel movements (F)	1	347	ECOG PS 2-4	ECOG PS 0-1	0.12	0.64	0.18	Physical Functioning	0.18	0.21	0.63
Loss of control of bowel movements (F)	1	240	Colorectal/Prostate	Lung	0.19	0.60	0.31			0.03	0.15
Loss of control of bowel movements (F)	1	339							0.18	0.001	0.01

PROCTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Loss of control of bowel movements (F)	1	339						Role Functioning	0.18	<0.001	0.01
Loss of control of bowel movements (F)	1	339						Emotional Functioning	0.14	0.01	0.08
Loss of control of bowel movements (F)	1	339						Cognitive Functioning	0.14	0.01	0.08
Loss of control of bowel movements (F)	1	339						Social Functioning	0.14	0.008	0.08
Loss of control of bowel movements (F)	1	339						Global Health Status/QoL	0.17	0.002	0.02
Loss of control of bowel movements (F)	1	336						HRQL Summary Score	0.27	<0.001	<0.001
Loss of control of bowel movements (F)	2	304	ECOG PS 2-4	ECOG PS 0-1	-0.04	0.56	-0.07				
Loss of control of bowel movements (F)	2	208	Colorectal/Prostate	Lung	0.05	0.57	0.09				
Loss of control of bowel movements (F)	2	298						Physical Functioning	0.21	<0.001	0.003
Loss of control of bowel movements (F)	2	298						Role Functioning	0.21	<0.001	0.005
Loss of control of bowel movements (F)	2	295						Emotional Functioning	0.12	0.046	0.23
Loss of control of bowel movements (F)	2	295						Cognitive Functioning	0.08	0.15	0.61
Loss of control of bowel movements (F)	2	294						Social Functioning	0.15	0.01	0.08
Loss of control of bowel movements (F)	2	295						Global Health Status/QoL	0.15	0.01	0.08
Loss of control of bowel movements (F)	2	291						HRQL Summary Score	0.26	<0.001	<0.001
Loss of control of bowel movements (I)	1	348									
Loss of control of bowel movements (I)	1	241	ECOG PS 2-4	ECOG PS 0-1	0.09	0.63	0.15				
Loss of control of bowel movements (I)	1	340	Colorectal/Prostate	Lung	0.07	0.67	0.10				
Loss of control of bowel movements (I)	1	340						Physical Functioning	0.20	0.45	0.72
Loss of control of bowel movements (I)	1	340						Role Functioning	0.21	<0.001	0.003
Loss of control of bowel movements (I)	1	340						Emotional Functioning	0.13	0.02	0.002
Loss of control of bowel movements (I)	1	340						Cognitive Functioning	0.18	0.001	0.01
Loss of control of bowel movements (I)	1	340						Social Functioning	0.19	<0.001	0.006
Loss of control of bowel movements (I)	1	340						Global Health Status/QoL	0.11	0.04	0.28
Loss of control of bowel movements (I)	1	337						HRQL Summary Score	0.28	<0.001	<0.001
Loss of control of bowel movements (I)	2	304	ECOG PS 2-4	ECOG PS 0-1	-0.03	0.53	-0.06				
Loss of control of bowel movements (I)	2	208	Colorectal/Prostate	Lung	0.11	0.55	0.19				
Loss of control of bowel movements (I)	2	298						Physical Functioning	0.20	0.19	0.72
Loss of control of bowel movements (I)	2	298						Role Functioning	0.22	<0.001	0.007
Loss of control of bowel movements (I)	2	295						Emotional Functioning	0.10	0.09	0.002
Loss of control of bowel movements (I)	2	295						Cognitive Functioning	0.10	0.08	0.44
Loss of control of bowel movements (I)	2	294						Social Functioning	0.15	0.008	0.07
Loss of control of bowel movements (I)	2	295						Global Health Status/QoL	0.15	0.008	0.07
Loss of control of bowel movements (I)	2	291						HRQL Summary Score	0.19	<0.001	0.009
Loss of control of bowel movements (I)	2	291						HRQL Summary Score	0.27	<0.001	<0.001
Loss of control of urine (F)	1	222									
Loss of control of urine (F)	1	112	ECOG PS 2-4	ECOG PS 0-1	-0.02	0.90	-0.02				
Loss of control of urine (F)	1	221	Colorectal/Prostate	Hematologic	0.54	0.93	0.58				
Loss of control of urine (F)	1	221						Physical Functioning	0.05	0.005	0.09
Loss of control of urine (F)	1	221						Role Functioning	0.00	0.47	0.98
Loss of control of urine (F)	1	221						Emotional Functioning	-0.01	0.98	0.98
Loss of control of urine (F)	1	221						Cognitive Functioning	0.00	0.97	0.98
Loss of control of urine (F)	1	221						Social Functioning	0.05	0.49	0.98
Loss of control of urine (F)	1	221						Global Health Status/QoL	0.07	0.3	0.98
Loss of control of urine (F)	1	219						HRQL Summary Score	0.07	0.31	0.98
Loss of control of urine (F)	2	192	ECOG PS 2-4	ECOG PS 0-1	-0.04	0.89	-0.04				
Loss of control of urine (F)	2	96	Colorectal/Prostate	Hematologic	0.33	0.97	0.34				
Loss of control of urine (F)	2	190						Physical Functioning	0.08	0.13	0.98
Loss of control of urine (F)	2	190						Role Functioning	0.03	0.25	0.98
Loss of control of urine (F)	2	189						Emotional Functioning	0.02	0.66	0.98
Loss of control of urine (F)	2	189						Cognitive Functioning	0.09	0.81	0.98
Loss of control of urine (F)	2	188						Social Functioning	0.09	0.23	0.98
Loss of control of urine (F)	2	188						Global Health Status/QoL	0.06	0.38	0.98
Loss of control of urine (F)	2	186						HRQL Summary Score	0.09	0.23	0.98
Loss of control of urine (F)	2	186						HRQL Summary Score	0.05	0.49	0.98
Loss of control of urine (I)	1	222									
Loss of control of urine (I)	1	112	ECOG PS 2-4	ECOG PS 0-1	0	0.78	0				
Loss of control of urine (I)	1	221	Colorectal/Prostate	Hematologic	0.32	0.76	0.42				
Loss of control of urine (I)	1	221						Physical Functioning	0.10	0.12	0.99
Loss of control of urine (I)	1	221						Role Functioning	0.06	0.36	0.99
Loss of control of urine (I)	1	221						Emotional Functioning	0.10	0.15	0.99
Loss of control of urine (I)	1	221						Cognitive Functioning	0.04	0.56	0.99
Loss of control of urine (I)	1	221						Social Functioning	0.12	0.07	0.99
Loss of control of urine (I)	1	219						Global Health Status/QoL	0.05	0.42	0.99
Loss of control of urine (I)	1	219						HRQL Summary Score	0.14	0.04	0.7
Loss of control of urine (I)	2	192	ECOG PS 2-4	ECOG PS 0-1	-0.17	0.62	-0.27				
Loss of control of urine (I)	2	96	Colorectal/Prostate	Hematologic	0.18	0.62	0.29				
Loss of control of urine (I)	2	190						Physical Functioning	0.10	0.18	0.99
Loss of control of urine (I)	2	190						Role Functioning	0.00	0.98	0.99
Loss of control of urine (I)	2	189						Emotional Functioning	0.06	0.42	0.99
Loss of control of urine (I)	2	188						Cognitive Functioning	0.04	0.6	0.99
Loss of control of urine (I)	2	188						Social Functioning	0.03	0.66	0.99
Loss of control of urine (I)	2	189						Global Health Status/QoL	0.04	0.56	0.99
Loss of control of urine (I)	2	186						HRQL Summary Score	0.04	0.59	0.96
Miss an expected menstrual period (F)	1	69	ECOG PS 2-4	ECOG PS 0-1	-12.81%		-0.29				
Miss an expected menstrual period (F)	1	27	Age <40	Age >60	5.43%		0.12				
Miss an expected menstrual period (F)	1	67						Physical Functioning	0.29	0.03	0.29
Miss an expected menstrual period (F)	1	67						Role Functioning	0.26	0.02	0.43

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Miss an expected menstrual period (P)	1	67	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60	-39.66%		-1.36	Emotional Functioning	-0.01	0.96	0.96
Miss an expected menstrual period (P)	1	67	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60	42.11%		1.41	Cognitive Functioning	0.31	0.01	0.15
Miss an expected menstrual period (P)	1	67	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				Social Functioning	0.32	0.009	0.15
Miss an expected menstrual period (P)	1	67	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				Global Health Status/QoL	-0.09	0.48	0.96
Miss an expected menstrual period (P)	1	67	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				HRQOL Summary Score	0.22	0.07	0.9
Miss an expected menstrual period (P)	2	60	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60						0.26	0.96
Miss an expected menstrual period (P)	2	20	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				Physical Functioning	-0.08	0.4	0.96
Miss an expected menstrual period (P)	2	58	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				Role Functioning	-0.10	0.53	0.96
Miss an expected menstrual period (P)	2	58	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				Emotional Functioning	-0.05	0.71	0.96
Miss an expected menstrual period (P)	2	58	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				Cognitive Functioning	-0.10	0.46	0.96
Miss an expected menstrual period (P)	2	58	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				Social Functioning	-0.13	0.33	0.96
Miss an expected menstrual period (P)	2	58	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				Global Health Status/QoL	-0.34	0.009**	0.15
Miss an expected menstrual period (P)	2	58	ECOG PS 2-4 Age <40	ECOG PS 0-1 Age >60				HRQOL Summary Score	-0.22	0.1	0.96
Mouth or throat sores (S)	1	824	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.26	0.84	0.31			<0.001	0.003
Mouth or throat sores (S)	1	824	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.19	0.84	0.22			0.001	0.004
Mouth or throat sores (S)	1	808	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other	0.52	0.82	0.64			<0.001	<0.001
Mouth or throat sores (S)	1	808	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Physical Functioning	0.17	<0.001	<0.001
Mouth or throat sores (S)	1	805	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Role Functioning	0.19	<0.001	<0.001
Mouth or throat sores (S)	1	805	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Emotional Functioning	0.24	<0.001	<0.001
Mouth or throat sores (S)	1	805	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Cognitive Functioning	0.16	<0.001	<0.001
Mouth or throat sores (S)	1	805	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Social Functioning	0.22	<0.001	<0.001
Mouth or throat sores (S)	1	805	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Global Health Status/QoL	0.18	<0.001	<0.001
Mouth or throat sores (S)	1	803	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other	0.21	0.97	0.22			<0.001	<0.001
Mouth or throat sores (S)	2	761	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other	0.19	0.97	0.20			0.007	0.01
Mouth or throat sores (S)	2	761	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other	0.64	0.94	0.68			<0.001	<0.001
Mouth or throat sores (S)	2	739	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Physical Functioning	0.22	<0.001	<0.001
Mouth or throat sores (S)	2	739	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Role Functioning	0.23	<0.001	<0.001
Mouth or throat sores (S)	2	737	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Emotional Functioning	0.19	<0.001	<0.001
Mouth or throat sores (S)	2	737	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Cognitive Functioning	0.16	<0.001	<0.001
Mouth or throat sores (S)	2	736	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Social Functioning	0.30	<0.001	<0.001
Mouth or throat sores (S)	2	737	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				Global Health Status/QoL	0.26	<0.001	<0.001
Mouth or throat sores (S)	2	737	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other				HRQOL Summary Score	0.34	<0.001	<0.001
Mouth or throat sores (S)	2	730	ECOG PS 2-4 Head/Neck with radiation therapy in prior 2 weeks	ECOG PS 0-1 Other	0.24	0.76	0.32			<0.001	0.002
Mouth or throat sores (S)	1	822	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.14	0.77	0.19			0.007	0.01
Mouth or throat sores (S)	1	822	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.46	0.75	0.61			<0.001	<0.001
Mouth or throat sores (S)	1	806	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Physical Functioning	0.18	<0.001	<0.001
Mouth or throat sores (S)	1	806	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Role Functioning	0.24	<0.001	<0.001
Mouth or throat sores (S)	1	803	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Emotional Functioning	0.25	<0.001	<0.001
Mouth or throat sores (S)	1	803	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Cognitive Functioning	0.12	<0.001	0.002
Mouth or throat sores (S)	1	803	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Social Functioning	0.24	<0.001	<0.001
Mouth or throat sores (S)	1	803	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Global Health Status/QoL	0.18	<0.001	<0.001
Mouth or throat sores (S)	1	801	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.26	0.91	0.28			<0.001	<0.001
Mouth or throat sores (S)	2	762	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.12	0.92	0.13			0.005	0.01
Mouth or throat sores (S)	2	762	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.61	0.89	0.68			<0.001	<0.001
Mouth or throat sores (S)	2	740	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Physical Functioning	0.21	<0.001	<0.001
Mouth or throat sores (S)	2	738	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Role Functioning	0.24	<0.001	<0.001
Mouth or throat sores (S)	2	738	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Emotional Functioning	0.20	<0.001	<0.001
Mouth or throat sores (S)	2	737	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Cognitive Functioning	0.17	<0.001	<0.001
Mouth or throat sores (S)	2	738	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Social Functioning	0.31	<0.001	<0.001
Mouth or throat sores (S)	2	737	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Global Health Status/QoL	0.23	<0.001	<0.001
Mouth or throat sores (S)	2	731	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				HRQOL Summary Score	0.33	<0.001	<0.001
Nausea (F)	1	835	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.39	1.06	0.36			<0.001	<0.001
Nausea (F)	1	835	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.46	1.05	0.44			<0.001	<0.001
Nausea (F)	1	835	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.98	0.96	1.02			<0.001	<0.001
Nausea (F)	1	819	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.56	1.04	0.54			<0.001	<0.001
Nausea (F)	1	819	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Physical Functioning	0.24	<0.001	<0.001
Nausea (F)	1	816	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Role Functioning	0.31	<0.001	<0.001
Nausea (F)	1	816	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Emotional Functioning	0.31	<0.001	<0.001
Nausea (F)	1	816	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Cognitive Functioning	0.28	<0.001	<0.001
Nausea (F)	1	816	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Social Functioning	0.33	<0.001	<0.001
Nausea (F)	1	814	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Global Health Status/QoL	0.28	<0.001	<0.001
Nausea (F)	1	814	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				HRQOL Summary Score	0.49	<0.001	<0.001
Nausea (F)	1	819	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.36	1.09	0.33			<0.001	<0.001
Nausea (F)	2	774	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.30	1.09	0.28			<0.001	<0.001
Nausea (F)	2	774	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.96	1.00	0.95			<0.001	<0.001
Nausea (F)	2	774	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other	0.65	1.06	0.61			<0.001	<0.001
Nausea (F)	2	752	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Physical Functioning	0.29	<0.001	<0.001
Nausea (F)	2	752	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Role Functioning	0.30	<0.001	<0.001
Nausea (F)	2	750	ECOG PS 2-4 Chemotherapy in prior 2 weeks	ECOG PS 0-1 Other				Emotional Functioning	0.26	<0.001	<0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Nausea (F)	2	750						Cognitive Functioning	0.33	<0.001	<0.001
Nausea (F)	2	749						Social Functioning	0.35	<0.001	<0.001
Nausea (F)	2	750						Global Health Status/QoL	0.31	<0.001	<0.001
Nausea (F)	2	743						HRQOL Summary Score	0.50	<0.001	<0.001
Nausea (F)	2	752						Nausea and Vomiting	0.75	<0.001	<0.001
Nausea (S)	1	834	ECOG PS 2-4	ECOG PS 0-1	0.36	0.97	0.37				
Nausea (S)	1	834	Chemotherapy in prior 2 weeks	Other	0.34	0.97	0.35				
Nausea (S)	1	834	Currently taking nausea med	Other	0.88	0.88	1.00				
Nausea (S)	1	834	Opioid [narcotic] pain med in prior week	Other	0.58	0.94	0.61				
Nausea (S)	1	818						Physical Functioning	0.26	<0.001	<0.001
Nausea (S)	1	818						Role Functioning	0.33	<0.001	<0.001
Nausea (S)	1	815						Emotional Functioning	0.33	<0.001	<0.001
Nausea (S)	1	815						Cognitive Functioning	0.30	<0.001	<0.001
Nausea (S)	1	815						Social Functioning	0.35	<0.001	<0.001
Nausea (S)	1	815						Global Health Status/QoL	0.30	<0.001	<0.001
Nausea (S)	1	813						HRQOL Summary Score	0.51	<0.001	<0.001
Nausea (S)	1	818						Nausea and Vomiting	0.73	<0.001	<0.001
Nausea (S)	2	775	ECOG PS 2-4	ECOG PS 0-1	0.34	0.94	0.36				
Nausea (S)	2	775	Chemotherapy in prior 2 weeks	Other	0.28	0.94	0.30				
Nausea (S)	2	775	Currently taking nausea med	Other	0.79	0.88	0.90				
Nausea (S)	2	775	Opioid [narcotic] pain med in prior week	Other	0.56	0.91	0.61				
Nausea (S)	2	753						Physical Functioning	0.31	<0.001	<0.001
Nausea (S)	2	751						Role Functioning	0.31	<0.001	<0.001
Nausea (S)	2	751						Emotional Functioning	0.29	<0.001	<0.001
Nausea (S)	2	750						Cognitive Functioning	0.33	<0.001	<0.001
Nausea (S)	2	751						Social Functioning	0.37	<0.001	<0.001
Nausea (S)	2	751						Global Health Status/QoL	0.35	<0.001	<0.001
Nausea (S)	2	744						HRQOL Summary Score	0.53	<0.001	<0.001
Nausea (S)	2	753						Nausea and Vomiting	0.76	<0.001	<0.001
Nausea (S)	1	315	ECOG PS 2-4	ECOG PS 0-1	0.00	0.62	-0.01				
Nausea (S)	1	315	Bevacizumab in prior 2 weeks	Other	0.06	0.61	0.10				
Nausea (S)	1	307						Physical Functioning	-0.01	0.99	0.99
Nausea (S)	1	307						Role Functioning	0.00	0.99	0.99
Nausea (S)	1	307						Emotional Functioning	-0.09	0.12	0.99
Nausea (S)	1	307						Cognitive Functioning	0.07	0.25	0.99
Nausea (S)	1	307						Social Functioning	-0.01	0.81	0.99
Nausea (S)	1	307						Global Health Status/QoL	-0.02	0.73	0.99
Nausea (S)	1	304						HRQOL Summary Score	0.03	0.65	0.99
Nausea (S)	2	278	ECOG PS 2-4	ECOG PS 0-1	0.04	0.50	0.08				
Nausea (S)	2	278	Bevacizumab in prior 2 weeks	Other	0.07	0.50	0.15				
Nausea (S)	2	273						Physical Functioning	0.00	0.96	0.99
Nausea (S)	2	273						Role Functioning	-0.02	0.68	0.99
Nausea (S)	2	271						Emotional Functioning	0.04	0.53	0.99
Nausea (S)	2	271						Cognitive Functioning	0.01	0.93	0.99
Nausea (S)	2	271						Social Functioning	0.08	0.17	0.99
Nausea (S)	2	271						Global Health Status/QoL	0.02	0.74	0.99
Nausea (S)	2	270						HRQOL Summary Score	0.02	0.62	0.97
Nausea (S)	1	314	ECOG PS 2-4	ECOG PS 0-1	-0.04	0.51	-0.07				
Nausea (S)	1	314	Bevacizumab in prior 2 weeks	Other	0.02	0.51	0.05				
Nausea (S)	1	306						Physical Functioning	0.00	0.81	0.97
Nausea (S)	1	306						Role Functioning	0.02	0.76	0.97
Nausea (S)	1	306						Emotional Functioning	-0.06	0.3	0.97
Nausea (S)	1	306						Cognitive Functioning	0.06	0.27	0.97
Nausea (S)	1	306						Social Functioning	0.02	0.74	0.97
Nausea (S)	1	306						Global Health Status/QoL	0.01	0.91	0.97
Nausea (S)	1	303						HRQOL Summary Score	0.04	0.46	0.97
Nausea (S)	2	277	ECOG PS 2-4	ECOG PS 0-1	-0.01	0.47	-0.01				
Nausea (S)	2	277	Bevacizumab in prior 2 weeks	Other	0.10	0.47	0.22				
Nausea (S)	2	272						Physical Functioning	0.05	0.41	0.97
Nausea (S)	2	270						Role Functioning	0.05	0.45	0.97
Nausea (S)	2	270						Emotional Functioning	0.08	0.21	0.97
Nausea (S)	2	270						Cognitive Functioning	0.02	0.76	0.97
Nausea (S)	2	270						Social Functioning	0.11	0.08	0.97
Nausea (S)	2	270						Global Health Status/QoL	0.02	0.7	0.97
Nausea (S)	2	269						HRQOL Summary Score	0.07	0.26	0.97
Numness/tingling in your hands or feet (S)	1	846	ECOG PS 2-4	ECOG PS 0-1	0.24	0.93	0.26				
Numness/tingling in your hands or feet (S)	1	846	Taxane/vincal alkaloid/platin chemotherapy in prior 2 weeks	Other	0	0.94	0				
Numness/tingling in your hands or feet (S)	1	829						Physical Functioning	0.28	<0.001	<0.001
Numness/tingling in your hands or feet (S)	1	829						Role Functioning	0.21	<0.001	<0.001
Numness/tingling in your hands or feet (S)	1	826						Emotional Functioning	0.20	<0.001	<0.001
Numness/tingling in your hands or feet (S)	1	826						Cognitive Functioning	0.26	<0.001	<0.001
Numness/tingling in your hands or feet (S)	1	826						Social Functioning	0.19	<0.001	<0.001
Numness/tingling in your hands or feet (S)	1	826						Global Health Status/QoL	0.19	<0.001	<0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Numbness/tingling in your hands or feet (S)	1	824	ECOG PS 2-4	ECOG PS 0-1	0.10	0.91	0.11	HRQL Summary Score	0.32	<0.001	<0.001
Numbness/tingling in your hands or feet (S)	2	782	Taxane/vinca alkaloid/platin chemotherapy in prior 2 weeks	Other	0	0.91	0	Physical Functioning	0.29	0.26	0.77
Numbness/tingling in your hands or feet (S)	2	759					Role Functioning	0.17	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	757					Emotional Functioning	0.21	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	756					Cognitive Functioning	0.18	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	757					Social Functioning	0.11	0.002	0.01	
Numbness/tingling in your hands or feet (S)	2	750					Global Health Status/QoL	0.20	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	750					HRQL Summary Score	0.26	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	1	846	ECOG PS 2-4	ECOG PS 0-1	0.28	0.88	0.32	Physical Functioning	0.29	0.5	0.002
Numbness/tingling in your hands or feet (S)	1	846	Taxane/vinca alkaloid/platin chemotherapy in prior 2 weeks	Other	0.04	0.88	0.05	Role Functioning	0.20	<0.001	<0.001
Numbness/tingling in your hands or feet (S)	1	829					Emotional Functioning	0.25	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	1	826					Cognitive Functioning	0.28	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	1	826					Social Functioning	0.23	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	1	826					Global Health Status/QoL	0.20	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	1	824					HRQL Summary Score	0.34	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	782	ECOG PS 2-4	ECOG PS 0-1	0.13	0.83	0.16	Physical Functioning	0.31	0.43	0.5
Numbness/tingling in your hands or feet (S)	2	759	Taxane/vinca alkaloid/platin chemotherapy in prior 2 weeks	Other	-0.05	0.83	-0.06	Role Functioning	0.23	<0.001	<0.001
Numbness/tingling in your hands or feet (S)	2	759					Emotional Functioning	0.30	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	757					Cognitive Functioning	0.22	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	756					Social Functioning	0.20	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	757					Global Health Status/QoL	0.21	<0.001	<0.001	
Numbness/tingling in your hands or feet (S)	2	750					HRQL Summary Score	0.33	<0.001	<0.001	
Pain (F)	1	848	ECOG PS 2-4	ECOG PS 0-1	0.62	1.27	0.49	Physical Functioning	0.39	<0.001	<0.001
Pain (F)	1	848	Chemotherapy in prior 2 weeks	Other	-0.07	1.29	-0.06	Role Functioning	0.41	0.4	0.4
Pain (F)	1	848	Opioid [narcotic] pain med in prior week	Other	1.41	1.11	1.27	Emotional Functioning	0.38	<0.001	<0.001
Pain (F)	1	848	Surgery in prior 2 weeks	Other	0.35	1.29	0.27	Cognitive Functioning	0.36	0.13	0.26
Pain (F)	1	832					Social Functioning	0.41	<0.001	<0.001	
Pain (F)	1	829					HRQL Summary Score	0.59	<0.001	<0.001	
Pain (F)	1	829					Pain	0.77	<0.001	<0.001	
Pain (F)	1	833					Physical Functioning	0.41	<0.001	<0.001	
Pain (F)	2	793	ECOG PS 2-4	ECOG PS 0-1	0.62	1.29	0.48	Role Functioning	0.38	<0.001	<0.001
Pain (F)	2	793	Chemotherapy in prior 2 weeks	Other	-0.21	1.30	-0.16	Emotional Functioning	0.38	<0.001	<0.001
Pain (F)	2	793	Opioid [narcotic] pain med in prior week	Other	1.31	1.15	1.14	Cognitive Functioning	0.33	0.02**	0.07
Pain (F)	2	793	Surgery in prior 2 weeks	Other	0.63	1.30	0.48	Social Functioning	0.37	0.02	0.07
Pain (F)	2	771					HRQL Summary Score	0.41	<0.001	<0.001	
Pain (F)	2	769					Physical Functioning	0.41	<0.001	<0.001	
Pain (F)	2	769					Role Functioning	0.38	<0.001	<0.001	
Pain (F)	2	769					Emotional Functioning	0.38	<0.001	<0.001	
Pain (F)	2	768					Cognitive Functioning	0.33	<0.001	<0.001	
Pain (F)	2	769					Social Functioning	0.37	<0.001	<0.001	
Pain (F)	2	762					Global Health Status/QoL	0.41	<0.001	<0.001	
Pain (F)	2	776					HRQL Summary Score	0.55	<0.001	<0.001	
Pain (F)	2	776					Pain	0.78	<0.001	<0.001	
Pain (S)	1	848	ECOG PS 2-4	ECOG PS 0-1	0.66	1.16	0.57	Physical Functioning	0.42	<0.001	<0.001
Pain (S)	1	848	Chemotherapy in prior 2 weeks	Other	-0.03	1.18	-0.02	Role Functioning	0.43	0.73	0.73
Pain (S)	1	848	Opioid [narcotic] pain med in prior week	Other	1.31	1.01	1.31	Emotional Functioning	0.42	<0.001	<0.001
Pain (S)	1	848	Surgery in prior 2 weeks	Other	0.40	1.18	0.34	Cognitive Functioning	0.40	0.06	0.18
Pain (S)	1	832					Social Functioning	0.40	<0.001	<0.001	
Pain (S)	1	829					HRQL Summary Score	0.61	<0.001	<0.001	
Pain (S)	1	829					Pain	0.76	<0.001	<0.001	
Pain (S)	1	829					Physical Functioning	0.37	<0.001	<0.001	
Pain (S)	1	827					Role Functioning	0.42	<0.001	<0.001	
Pain (S)	1	827					Emotional Functioning	0.42	<0.001	<0.001	
Pain (S)	1	833					Cognitive Functioning	0.40	<0.001	<0.001	
Pain (S)	2	793	ECOG PS 2-4	ECOG PS 0-1	0.52	1.15	0.46	Social Functioning	0.37	<0.001	<0.001
Pain (S)	2	793	Chemotherapy in prior 2 weeks	Other	-0.12	1.17	-0.10	Global Health Status/QoL	0.61	<0.001	<0.001
Pain (S)	2	793	Opioid [narcotic] pain med in prior week	Other	1.19	1.02	1.16	HRQL Summary Score	0.61	<0.001	<0.001
Pain (S)	2	793	Surgery in prior 2 weeks	Other	0.50	1.16	0.43	Pain	0.76	<0.001	<0.001
Pain (S)	2	771					Physical Functioning	0.44	0.16	0.31	
Pain (S)	2	769					Role Functioning	0.38	<0.001	<0.001	
Pain (S)	2	769					Emotional Functioning	0.36	<0.001	<0.001	
Pain (S)	2	769					Cognitive Functioning	0.32	<0.001	<0.001	
Pain (S)	2	768					Social Functioning	0.38	<0.001	<0.001	

PROCTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Pain (S)	2	769						Global Health Status/QoL	0.41	<0.001	<0.001
Pain (S)	2	762						HRQOL Summary Score	0.57	<0.001	<0.001
Pain (S)	2	776						Pain	0.78	<0.001	<0.001
Pain (I)	1	848	ECOG PS 2-4	ECOG PS 0-1	0.83	1.23	0.67				0.9
Pain (I)	1	848	Chemotherapy in prior 2 weeks	Other	-0.01	1.27	-0.01	Physical Functioning	0.47	<0.001	<0.001
Pain (I)	1	848	Opioid [narcotic] pain med in prior week	Other	1.31	1.11	1.19	Role Functioning	0.48	<0.001	<0.001
Pain (I)	1	832	Surgery in prior 2 weeks	Other	0.32	1.27	0.25	Emotional Functioning	0.42	<0.001	<0.001
Pain (I)	1	829						Cognitive Functioning	0.43	<0.001	<0.001
Pain (I)	1	829						Social Functioning	0.46	<0.001	<0.001
Pain (I)	1	829						Global Health Status/QoL	0.42	<0.001	<0.001
Pain (I)	1	827						HRQOL Summary Score	0.65	<0.001	<0.001
Pain (I)	1	833						Pain	0.76	<0.001	<0.001
Pain (I)	2	792	ECOG PS 2-4	ECOG PS 0-1	0.65	1.23	0.53				0.47
Pain (I)	2	792	Chemotherapy in prior 2 weeks	Other	-0.11	1.25	-0.08	Physical Functioning	0.49	<0.001	<0.001
Pain (I)	2	792	Opioid [narcotic] pain med in prior week	Other	1.28	1.09	1.17	Role Functioning	0.48	<0.001	<0.001
Pain (I)	2	792	Surgery in prior 2 weeks	Other	0.74	1.25	0.59	Emotional Functioning	0.40	<0.001	<0.001
Pain (I)	2	770						Cognitive Functioning	0.36	<0.001	<0.001
Pain (I)	2	768						Social Functioning	0.46	<0.001	<0.001
Pain (I)	2	767						Global Health Status/QoL	0.44	<0.001	<0.001
Pain (I)	2	768						HRQOL Summary Score	0.62	<0.001	<0.001
Pain (I)	2	761						Pain	0.78	<0.001	<0.001
Pain (I)	2	775								0.3	1
Pain during vaginal sex (S)	1	86	ECOG PS 2-4	ECOG PS 0-1	-0.37	0.78	-0.48	Physical Functioning	-0.13	0.25	1
Pain during vaginal sex (S)	1	34	Age <40	Age >60	0	0.69	0	Role Functioning	0.15	0.17	1
Pain during vaginal sex (S)	1	82						Emotional Functioning	0.19	0.1	1
Pain during vaginal sex (S)	1	82						Cognitive Functioning	0.06	0.61	1
Pain during vaginal sex (S)	1	82						Social Functioning	0.18	0.11	1
Pain during vaginal sex (S)	1	82						Global Health Status/QoL	0.10	0.38	1
Pain during vaginal sex (S)	1	82						HRQOL Summary Score	0.39	0.3	1
Pain during vaginal sex (S)	2	74	ECOG PS 2-4	ECOG PS 0-1	-0.47	0.88	-0.54	Physical Functioning	-0.01	0.06	1
Pain during vaginal sex (S)	2	30	Age <40	Age >60	-0.66	0.93	-0.71	Role Functioning	0.10	0.91	1
Pain during vaginal sex (S)	2	70						Emotional Functioning	0.11	0.34	1
Pain during vaginal sex (S)	2	70						Cognitive Functioning	-0.01	0.94	1
Pain during vaginal sex (S)	2	70						Social Functioning	-0.07	0.55	1
Pain during vaginal sex (S)	2	70						Global Health Status/QoL	0.02	0.85	1
Pain during vaginal sex (S)	2	69						HRQOL Summary Score	0.04	0.77	1
Pain in the abdomen (F)	1	331	ECOG PS 2-4	ECOG PS 0-1	0.2	0.84	0.24	Physical Functioning	0.27	<0.001	<0.001
Pain in the abdomen (F)	1	226	Gastrointestinal	Lung	0.6	0.80	0.76	Role Functioning	0.36	<0.001	<0.001
Pain in the abdomen (F)	1	323						Emotional Functioning	0.28	<0.001	<0.001
Pain in the abdomen (F)	1	323						Cognitive Functioning	0.21	<0.001	<0.001
Pain in the abdomen (F)	1	323						Social Functioning	0.33	<0.001	<0.001
Pain in the abdomen (F)	1	323						Global Health Status/QoL	0.28	<0.001	<0.001
Pain in the abdomen (F)	1	320						HRQOL Summary Score	0.46	<0.001	<0.001
Pain in the abdomen (F)	2	293	ECOG PS 2-4	ECOG PS 0-1	0.23	0.88	0.26	Physical Functioning	0.25	0.11	0.17
Pain in the abdomen (F)	2	200	Gastrointestinal	Lung	0.31	0.89	0.35	Role Functioning	0.26	0.04	0.14
Pain in the abdomen (F)	2	288						Emotional Functioning	0.23	<0.001	<0.001
Pain in the abdomen (F)	2	286						Cognitive Functioning	0.08	0.17	0.17
Pain in the abdomen (F)	2	286						Social Functioning	0.23	<0.001	<0.001
Pain in the abdomen (F)	2	286						Global Health Status/QoL	0.24	<0.001	<0.001
Pain in the abdomen (F)	2	285						HRQOL Summary Score	0.36	<0.001	<0.001
Pain in the abdomen (S)	1	331	ECOG PS 2-4	ECOG PS 0-1	0.13	0.81	0.16	Physical Functioning	0.25	0.26	0.26
Pain in the abdomen (S)	1	226	Gastrointestinal	Lung	0.50	0.77	0.65	Role Functioning	0.32	<0.001	<0.001
Pain in the abdomen (S)	1	323						Emotional Functioning	0.27	<0.001	<0.001
Pain in the abdomen (S)	1	323						Cognitive Functioning	0.24	<0.001	<0.001
Pain in the abdomen (S)	1	323						Social Functioning	0.30	<0.001	<0.001
Pain in the abdomen (S)	1	323						Global Health Status/QoL	0.26	<0.001	<0.001
Pain in the abdomen (S)	1	320						HRQOL Summary Score	0.43	<0.001	<0.001
Pain in the abdomen (S)	2	293	ECOG PS 2-4	ECOG PS 0-1	0.27	0.90	0.29	Physical Functioning	0.25	<0.001	<0.001
Pain in the abdomen (S)	2	293						Role Functioning	0.32	<0.001	<0.001
Pain in the abdomen (S)	2	293						Emotional Functioning	0.27	<0.001	<0.001
Pain in the abdomen (S)	2	293						Cognitive Functioning	0.24	<0.001	<0.001
Pain in the abdomen (S)	2	293						Social Functioning	0.30	<0.001	<0.001
Pain in the abdomen (S)	2	293						Global Health Status/QoL	0.26	<0.001	<0.001
Pain in the abdomen (S)	2	293						HRQOL Summary Score	0.43	<0.001	<0.001

PROCTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean Or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Pain in the abdomen (S)	2	200	Gastrointestinal	Lung	0.31	0.92	0.34	Physical Functioning	0.04	0.12	0.12
Pain in the abdomen (S)	2	288						Role Functioning	<0.001	<0.001	<0.001
Pain in the abdomen (S)	2	288						Emotional Functioning	<0.001	<0.001	<0.001
Pain in the abdomen (S)	2	286						Cognitive Functioning	0.14	0.02	0.08
Pain in the abdomen (S)	2	286						Social Functioning	<0.001	<0.001	<0.001
Pain in the abdomen (S)	2	286						Global Health Status/QoL	0.29	<0.001	<0.001
Pain in the abdomen (S)	2	285						HRQOL Summary Score	0.42	<0.001	<0.001
Pain in the abdomen (I)	1	331	ECOG PS 2-4	ECOG PS 0-1	0.14	0.71	0.20		0.17	0.17	0.17
Pain in the abdomen (I)	1	226	Gastrointestinal	Lung	0.48	0.68	0.70	Physical Functioning	<0.001	<0.001	<0.001
Pain in the abdomen (I)	1	323						Role Functioning	<0.001	<0.001	<0.001
Pain in the abdomen (I)	1	323						Emotional Functioning	0.32	<0.001	<0.001
Pain in the abdomen (I)	1	323						Cognitive Functioning	0.27	<0.001	<0.001
Pain in the abdomen (I)	1	323						Social Functioning	0.21	<0.001	<0.001
Pain in the abdomen (I)	1	323						Global Health Status/QoL	0.33	<0.001	<0.001
Pain in the abdomen (I)	1	323						HRQOL Summary Score	0.23	<0.001	<0.001
Pain in the abdomen (I)	1	320							0.43	<0.001	<0.001
Pain in the abdomen (I)	2	293	ECOG PS 2-4	ECOG PS 0-1	0.30	0.83	0.36	Physical Functioning	0.03	0.06	0.06
Pain in the abdomen (I)	2	200	Gastrointestinal	Lung	0.30	0.83	0.36	Role Functioning	0.30	<0.001	<0.001
Pain in the abdomen (I)	2	288						Emotional Functioning	0.30	<0.001	<0.001
Pain in the abdomen (I)	2	286						Cognitive Functioning	0.25	<0.001	<0.001
Pain in the abdomen (I)	2	286						Social Functioning	0.20	<0.001	<0.001
Pain in the abdomen (I)	2	286						Global Health Status/QoL	0.28	<0.001	<0.001
Pain in the abdomen (I)	2	285						HRQOL Summary Score	0.29	<0.001	<0.001
Pain or burning with urination (S)	1	215	ECOG PS 2-4	ECOG PS 0-1	-0.15	0.58	-0.26		0.17	0.23	0.23
Pain or burning with urination (S)	1	53	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	0.79	0.66	1.19	Physical Functioning	<0.001	<0.001	<0.001
Pain or burning with urination (S)	1	214						Role Functioning	0.12	0.07	0.23
Pain or burning with urination (S)	1	214						Emotional Functioning	0.08	0.23	0.23
Pain or burning with urination (S)	1	214						Cognitive Functioning	0.17	0.01	0.16
Pain or burning with urination (S)	1	214						Social Functioning	0.09	0.21	0.23
Pain or burning with urination (S)	1	214							0.15	0.03	0.23
Pain or burning with urination (S)	1	214						Global Health Status/QoL	0.11	0.1	0.23
Pain or burning with urination (S)	1	212						HRQOL Summary Score	0.20	0.004	0.06
Pain or burning with urination (S)	2	190	ECOG PS 2-4	ECOG PS 0-1	-0.15	0.52	-0.28	Physical Functioning	0.09	0.23	0.23
Pain or burning with urination (S)	2	48	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	0.71	0.64	1.11	Role Functioning	0.18	0.01	0.16
Pain or burning with urination (S)	2	188						Emotional Functioning	0.19	0.009	0.13
Pain or burning with urination (S)	2	187						Cognitive Functioning	0.21	0.003	0.05
Pain or burning with urination (S)	2	186						Social Functioning	0.16	0.03	0.23
Pain or burning with urination (S)	2	187						Global Health Status/QoL	0.18	0.02	0.17
Pain or burning with urination (S)	2	184						HRQOL Summary Score	0.17	0.02	0.19
Pain/swelling/redness at IV (P)	1	208	ECOG PS 2-4	ECOG PS 0-1	-4.28%		-0.14		0.56	0.99	0.99
Pain/swelling/redness at IV (P)	1	208	Irritant chemotherapy [footnote 3] in prior 2 weeks	Other	2.52%		0.08	Physical Functioning	-0.05	0.59	0.99
Pain/swelling/redness at IV (P)	1	203						Role Functioning	-0.05	0.48	0.99
Pain/swelling/redness at IV (P)	1	203						Emotional Functioning	-0.01	0.88	0.99
Pain/swelling/redness at IV (P)	1	203						Cognitive Functioning	-0.01	0.85	0.99
Pain/swelling/redness at IV (P)	1	203						Social Functioning	0.08	0.25	0.99
Pain/swelling/redness at IV (P)	1	203						Global Health Status/QoL	0.00	0.99	0.99
Pain/swelling/redness at IV (P)	1	201						HRQOL Summary Score	0.73	0.99	0.99
Pain/swelling/redness at IV (P)	2	210	ECOG PS 2-4	ECOG PS 0-1	-5.90%		-0.21		0.44	0.99	0.99
Pain/swelling/redness at IV (P)	2	210	Irritant chemotherapy [footnote 3] in prior 2 weeks	Other	2.17%		0.07	Physical Functioning	-0.07	0.62	0.99
Pain/swelling/redness at IV (P)	2	201						Role Functioning	0.00	0.3	0.99
Pain/swelling/redness at IV (P)	2	201						Emotional Functioning	-0.05	0.94	0.99
Pain/swelling/redness at IV (P)	2	202						Cognitive Functioning	-0.05	0.49	0.99
Pain/swelling/redness at IV (P)	2	202						Social Functioning	-0.03	0.66	0.99
Pain/swelling/redness at IV (P)	2	202						Global Health Status/QoL	-0.05	0.45	0.99
Pain/swelling/redness at IV (P)	2	202						HRQOL Summary Score	-0.13	0.07	0.99
Pain/swelling/redness at IV (P)	2	200						HRQOL Summary Score	-0.08	0.24	0.99
Pounding/racing heartbeat (F)	1	412	ECOG PS 2-4	ECOG PS 0-1	0.19	0.85	0.23	Physical Functioning	0.11	0.11	0.2
Pounding/racing heartbeat (F)	1	397						Role Functioning	<0.001	<0.001	<0.001
Pounding/racing heartbeat (F)	1	397						Emotional Functioning	0.27	<0.001	<0.001
Pounding/racing heartbeat (F)	1	397						Cognitive Functioning	0.21	<0.001	<0.001
Pounding/racing heartbeat (F)	1	397						Social Functioning	0.23	<0.001	<0.001
Pounding/racing heartbeat (F)	1	397						Global Health Status/QoL	0.29	<0.001	<0.001
Pounding/racing heartbeat (F)	1	394						HRQOL Summary Score	0.27	<0.001	<0.001
Pounding/racing heartbeat (F)	2	372	ECOG PS 2-4	ECOG PS 0-1	0.17	0.83	0.21	Physical Functioning	0.31	<0.001	<0.001
Pounding/racing heartbeat (F)	2	356						Role Functioning	0.29	<0.001	<0.001
Pounding/racing heartbeat (F)	2	356						Emotional Functioning	0.26	<0.001	<0.001

PROCTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Pounding/racing heartbeat (F)	2	356						Emotional Functioning	0.24	<0.001	<0.001
Pounding/racing heartbeat (F)	2	356						Cognitive Functioning	0.20	<0.001	<0.001
Pounding/racing heartbeat (F)	2	356						Social Functioning	0.28	<0.001	<0.001
Pounding/racing heartbeat (F)	2	356						Global Health Status/QoL	0.24	<0.001	<0.001
Pounding/racing heartbeat (F)	2	352						HRQOL Summary Score	0.34	<0.001	<0.001
Pounding/racing heartbeat (S)	1	412	ECOG PS 2-4	ECOG PS 0-1	0.15	0.74	0.20	Physical Functioning	. .	0.17	0.17
Pounding/racing heartbeat (S)	1	397						Role Functioning	0.31	<0.001	<0.001
Pounding/racing heartbeat (S)	1	397						Emotional Functioning	0.29	<0.001	<0.001
Pounding/racing heartbeat (S)	1	397						Cognitive Functioning	0.23	<0.001	<0.001
Pounding/racing heartbeat (S)	1	397						Social Functioning	0.24	<0.001	<0.001
Pounding/racing heartbeat (S)	1	397						Global Health Status/QoL	0.35	<0.001	<0.001
Pounding/racing heartbeat (S)	1	397						HRQOL Summary Score	0.31	<0.001	<0.001
Pounding/racing heartbeat (S)	1	394	ECOG PS 2-4	ECOG PS 0-1	0.16	0.71	0.22	Physical Functioning	. .	0.17	0.17
Pounding/racing heartbeat (S)	2	356						Role Functioning	0.25	<0.001	<0.001
Pounding/racing heartbeat (S)	2	356						Emotional Functioning	0.26	<0.001	<0.001
Pounding/racing heartbeat (S)	2	356						Cognitive Functioning	0.22	<0.001	<0.001
Pounding/racing heartbeat (S)	2	356						Social Functioning	0.15	0.004	0.01
Pounding/racing heartbeat (S)	2	356						Global Health Status/QoL	0.26	<0.001	<0.001
Pounding/racing heartbeat (S)	2	352						HRQOL Summary Score	0.21	<0.001	<0.001
Problems with concentration (S)	1	837	ECOG PS 2-4	ECOG PS 0-1	0.48	0.88	0.54	Physical Functioning	. .	<0.001	<0.001
Problems with concentration (S)	1	837	Opioid [narcotic] pain med in prior week	Other	0.37	0.88	0.41	Role Functioning	. .	<0.001	<0.001
Problems with concentration (S)	1	837	Sleep aid in prior week	Other	0.22	0.90	0.24	Emotional Functioning	. .	0.006	0.006
Problems with concentration (S)	1	821						Cognitive Functioning	0.39	<0.001	<0.001
Problems with concentration (S)	1	818						Social Functioning	0.40	<0.001	<0.001
Problems with concentration (S)	1	818						Global Health Status/QoL	0.47	<0.001	<0.001
Problems with concentration (S)	1	818						HRQOL Summary Score	0.71	<0.001	<0.001
Problems with concentration (S)	1	818						Physical Functioning	0.43	<0.001	<0.001
Problems with concentration (S)	1	818						Role Functioning	0.34	<0.001	<0.001
Problems with concentration (S)	1	816						Cognitive Functioning	0.56	<0.001	<0.001
Problems with concentration (S)	2	776	ECOG PS 2-4	ECOG PS 0-1	0.45	0.90	0.50	Physical Functioning	. .	<0.001	<0.001
Problems with concentration (S)	2	776	Opioid [narcotic] pain med in prior week	Other	0.41	0.90	0.46	Role Functioning	. .	<0.001	<0.001
Problems with concentration (S)	2	776	Sleep aid in prior week	Other	0.33	0.91	0.37	Emotional Functioning	. .	<0.001	<0.001
Problems with concentration (S)	2	754						Cognitive Functioning	0.39	<0.001	<0.001
Problems with concentration (S)	2	752						Social Functioning	0.37	<0.001	<0.001
Problems with concentration (S)	2	752						Global Health Status/QoL	0.47	<0.001	<0.001
Problems with concentration (S)	2	751						HRQOL Summary Score	0.76	<0.001	<0.001
Problems with concentration (S)	2	752						Physical Functioning	0.35	<0.001	<0.001
Problems with concentration (S)	2	745						Role Functioning	0.35	<0.001	<0.001
Problems with concentration (S)	2	745						Cognitive Functioning	0.54	<0.001	<0.001
Problems with concentration (S)	2	745						Global Health Status/QoL	0.54	<0.001	<0.001
Problems with concentration (S)	2	745						HRQOL Summary Score	0.54	<0.001	<0.001
Problems with concentration (I)	1	837	ECOG PS 2-4	ECOG PS 0-1	0.46	0.90	0.51	Physical Functioning	. .	<0.001	<0.001
Problems with concentration (I)	1	837	Opioid [narcotic] pain med in prior week	Other	0.32	0.90	0.36	Role Functioning	. .	<0.001	<0.001
Problems with concentration (I)	1	837	Sleep aid in prior week	Other	0.19	0.91	0.21	Emotional Functioning	. .	0.02	0.02
Problems with concentration (I)	1	821						Cognitive Functioning	0.38	<0.001	<0.001
Problems with concentration (I)	1	818						Social Functioning	0.40	<0.001	<0.001
Problems with concentration (I)	1	818						Global Health Status/QoL	0.49	<0.001	<0.001
Problems with concentration (I)	1	818						HRQOL Summary Score	0.70	<0.001	<0.001
Problems with concentration (I)	1	818						Physical Functioning	0.49	<0.001	<0.001
Problems with concentration (I)	1	818						Role Functioning	0.34	<0.001	<0.001
Problems with concentration (I)	1	816						Cognitive Functioning	0.55	<0.001	<0.001
Problems with concentration (I)	1	816						Global Health Status/QoL	0.55	<0.001	<0.001
Problems with concentration (I)	2	773	ECOG PS 2-4	ECOG PS 0-1	0.46	0.89	0.52	Physical Functioning	. .	<0.001	<0.001
Problems with concentration (I)	2	773	Opioid [narcotic] pain med in prior week	Other	0.34	0.89	0.38	Role Functioning	. .	<0.001	<0.001
Problems with concentration (I)	2	773	Sleep aid in prior week	Other	0.21	0.90	0.23	Emotional Functioning	. .	0.01	0.02
Problems with concentration (I)	2	751						Cognitive Functioning	0.39	<0.001	<0.001
Problems with concentration (I)	2	749						Social Functioning	0.39	<0.001	<0.001
Problems with concentration (I)	2	749						Global Health Status/QoL	0.46	<0.001	<0.001
Problems with concentration (I)	2	748						HRQOL Summary Score	0.70	<0.001	<0.001
Problems with concentration (I)	2	748						Physical Functioning	0.37	<0.001	<0.001
Problems with concentration (I)	2	748						Role Functioning	0.34	<0.001	<0.001
Problems with concentration (I)	2	742						Cognitive Functioning	0.52	<0.001	<0.001
Problems with concentration (I)	2	742						Global Health Status/QoL	0.52	<0.001	<0.001
Problems with concentration (I)	2	742						HRQOL Summary Score	0.52	<0.001	<0.001
Problems with memory (S)	1	368	ECOG PS 2-4	ECOG PS 0-1	0.32	0.79	0.40	Physical Functioning	. .	0.08	0.09
Problems with memory (S)	1	291	Breast/Prostate	Gastrointestinal	-0.17	0.82	-0.20	Role Functioning	. .	0.18	0.38
Problems with memory (S)	1	360						Emotional Functioning	0.31	<0.001	<0.001
Problems with memory (S)	1	360						Cognitive Functioning	0.30	<0.001	<0.001
Problems with memory (S)	1	360						Social Functioning	0.32	<0.001	<0.001
Problems with memory (S)	1	360						Global Health Status/QoL	0.69	<0.001	<0.001
Problems with memory (S)	1	360						HRQOL Summary Score	0.39	<0.001	<0.001
Problems with memory (S)	1	360						Physical Functioning	0.22	<0.001	<0.001
Problems with memory (S)	1	358						Role Functioning	0.45	<0.001	<0.001
Problems with memory (S)	2	338	ECOG PS 2-4	ECOG PS 0-1	0.21	0.79	0.26	Physical Functioning	. .	0.19	0.38
Problems with memory (S)	2	272	Breast/Prostate	Gastrointestinal	0.09	0.84	0.11	Role Functioning	. .	0.49	0.49
Problems with memory (S)	2	325						Emotional Functioning	0.26	<0.001	<0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Problems with memory (S)	2	325						Role Functioning	0.21	<0.001	<0.001
Problems with memory (S)	2	326						Emotional Functioning	0.30	<0.001	<0.001
Problems with memory (S)	2	326						Cognitive Functioning	0.75	<0.001	<0.001
Problems with memory (S)	2	326						Social Functioning	0.28	<0.001	<0.001
Problems with memory (S)	2	326						Global Health Status/QoL	0.13	0.02	0.08
Problems with memory (S)	2	320						HRQOL Summary Score	0.38	<0.001	<0.001
Problems with memory (I)	1	368	ECOG PS 2-4 Breast/Prostate	ECOG PS 0-1 Gastrointestinal	0.37 -0.08	0.85 0.89	0.43 -0.09			0.01	0.05
Problems with memory (I)	1	291						Physical Functioning	0.31	<0.001	<0.001
Problems with memory (I)	1	360						Role Functioning	0.29	<0.001	<0.001
Problems with memory (I)	1	360						Emotional Functioning	0.39	<0.001	<0.001
Problems with memory (I)	1	360						Cognitive Functioning	0.60	<0.001	<0.001
Problems with memory (I)	1	360						Social Functioning	0.48	<0.001	<0.001
Problems with memory (I)	1	360						Global Health Status/QoL	0.25	<0.001	<0.001
Problems with memory (I)	1	358						HRQOL Summary Score	0.45	<0.001	<0.001
Problems with memory (I)	2	338	ECOG PS 2-4 Breast/Prostate	ECOG PS 0-1 Gastrointestinal	0.25 0.17	0.78 0.82	0.32 0.20			0.1 0.19	0.31 0.39
Problems with memory (I)	2	325						Physical Functioning	0.25	<0.001	<0.001
Problems with memory (I)	2	325						Role Functioning	0.24	<0.001	<0.001
Problems with memory (I)	2	326						Emotional Functioning	0.34	<0.001	<0.001
Problems with memory (I)	2	326						Cognitive Functioning	0.62	<0.001	<0.001
Problems with memory (I)	2	325						Social Functioning	0.29	<0.001	<0.001
Problems with memory (I)	2	326						Global Health Status/QoL	0.16	0.003	0.01
Problems with memory (I)	2	320						HRQOL Summary Score	0.37	<0.001	<0.001
Problems with tasting food/drink (S)	1	839	ECOG PS 2-4	ECOG PS 0-1	0.31	1.16	0.27	Physical Functioning	0.25	0.003	0.003
Problems with tasting food/drink (S)	1	823						Role Functioning	0.30	<0.001	<0.001
Problems with tasting food/drink (S)	1	823						Emotional Functioning	0.24	<0.001	<0.001
Problems with tasting food/drink (S)	1	820						Cognitive Functioning	0.27	<0.001	<0.001
Problems with tasting food/drink (S)	1	820						Social Functioning	0.32	<0.001	<0.001
Problems with tasting food/drink (S)	1	820						Global Health Status/QoL	0.22	<0.001	<0.001
Problems with tasting food/drink (S)	1	818						HRQOL Summary Score	0.44	<0.001	<0.001
Problems with tasting food/drink (S)	2	775	ECOG PS 2-4	ECOG PS 0-1	0.36	1.20	0.30	Physical Functioning	0.25	<0.001	<0.001
Problems with tasting food/drink (S)	2	753						Role Functioning	0.29	<0.001	<0.001
Problems with tasting food/drink (S)	2	751						Emotional Functioning	0.18	<0.001	<0.001
Problems with tasting food/drink (S)	2	751						Cognitive Functioning	0.22	<0.001	<0.001
Problems with tasting food/drink (S)	2	750						Social Functioning	0.34	<0.001	<0.001
Problems with tasting food/drink (S)	2	751						Global Health Status/QoL	0.29	<0.001	<0.001
Problems with tasting food/drink (S)	2	744						HRQOL Summary Score	0.43	<0.001	<0.001
Rash (P)	1	821	ECOG PS 2-4 Radiation therapy in prior 2 weeks	ECOG PS 0-1 Other	-2.31% 2.73%		-0.06 0.07	Physical Functioning	0.03	0.51	0.93
Rash (P)	1	805						Role Functioning	0.42	0.42	0.93
Rash (P)	1	805						Emotional Functioning	0.03	0.42	0.93
Rash (P)	1	802						Cognitive Functioning	0.01	0.7	0.93
Rash (P)	1	802						Social Functioning	0.04	0.26	0.93
Rash (P)	1	802						Global Health Status/QoL	0.23	0.93	0.93
Rash (P)	1	800						HRQOL Summary Score	0.02	0.51	0.93
Rash (P)	2	756	ECOG PS 2-4 Radiation therapy in prior 2 weeks	ECOG PS 0-1 Other	-0.67% 7.39%		-0.02 0.18	Physical Functioning	0.04	0.24	0.93
Rash (P)	2	735						Role Functioning	0.05	0.87	0.93
Rash (P)	2	735						Emotional Functioning	0.01	0.01	0.21
Rash (P)	2	733						Social Functioning	0.04	0.21	0.93
Rash (P)	2	733						Cognitive Functioning	-0.02	0.31	0.93
Rash (P)	2	732						Global Health Status/QoL	0.03	0.47	0.93
Rash (P)	2	733						HRQOL Summary Score	0.04	0.31	0.93
Rash (P)	2	726						Global Health Status/QoL	0.03	0.43	0.93
Rash (P)	2	726						HRQOL Summary Score	0.00	0.93	0.93
Ridges/bumps on fingernails/toenails (P)	1	483	ECOG PS 2-4	ECOG PS 0-1	-1.40%		-0.04	Physical Functioning	0.06	0.78	0.89
Ridges/bumps on fingernails/toenails (P)	1	468						Role Functioning	0.17	0.17	0.89
Ridges/bumps on fingernails/toenails (P)	1	468						Emotional Functioning	-0.01	0.89	0.89
Ridges/bumps on fingernails/toenails (P)	1	468						Cognitive Functioning	-0.03	0.58	0.89
Ridges/bumps on fingernails/toenails (P)	1	468						Social Functioning	0.11	0.01	0.22
Ridges/bumps on fingernails/toenails (P)	1	468						Global Health Status/QoL	-0.01	0.89	0.89
Ridges/bumps on fingernails/toenails (P)	1	465						HRQOL Summary Score	0.01	0.86	0.89
Ridges/bumps on fingernails/toenails (P)	1	465						Physical Functioning	0.03	0.49	0.89
Ridges/bumps on fingernails/toenails (P)	2	439	ECOG PS 2-4	ECOG PS 0-1	-5.90%		-0.15	Role Functioning	0.06	0.35	0.89
Ridges/bumps on fingernails/toenails (P)	2	423						Emotional Functioning	0.03	0.2	0.89
Ridges/bumps on fingernails/toenails (P)	2	423						Social Functioning	0.04	0.49	0.89
Ridges/bumps on fingernails/toenails (P)	2	422						Cognitive Functioning	0.04	0.41	0.89
Ridges/bumps on fingernails/toenails (P)	2	422						Global Health Status/QoL	0.06	0.23	0.89
Ridges/bumps on fingernails/toenails (P)	2	421						HRQOL Summary Score	0.02	0.66	0.89
Ridges/bumps on fingernails/toenails (P)	2	422						Global Health Status/QoL	0.08	0.08	0.89

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30 HRQL Summary Score	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Ridges/bumps on fingernails/toenails (P)	2	415							0.06	0.21	0.89
Ringing in ears (S)	1	294	ECOG PS 2-4 Head/Neck	ECOG PS 0-1 Prostate/Bladder	0.19	0.79	0.25			0.21	0.67
Ringing in ears (S)	1	191			0.29	0.78	0.38	Physical Functioning	0.06	0.01	0.12
Ringing in ears (S)	1	291						Role Functioning	0.18	0.33	0.67
Ringing in ears (S)	1	288						Emotional Functioning	0.19	0.002	0.03
Ringing in ears (S)	1	288						Cognitive Functioning	0.13	<0.001	0.01
Ringing in ears (S)	1	288						Social Functioning	0.20	<0.001	0.15
Ringing in ears (S)	1	288						Global Health Status/QoL	0.13	0.02	0.15
Ringing in ears (S)	1	286						HRQL Summary Score	0.25	<0.001	<0.001
Ringing in ears (S)	2	262	ECOG PS 2-4 Head/Neck	ECOG PS 0-1 Prostate/Bladder	-0.01	0.74	-0.02			0.94	0.94
Ringing in ears (S)	2	175			0.27	0.72	0.37	Physical Functioning	0.06	0.01	0.15
Ringing in ears (S)	2	259						Role Functioning	0.15	0.31	0.67
Ringing in ears (S)	2	259						Emotional Functioning	0.19	0.003	0.03
Ringing in ears (S)	2	258						Cognitive Functioning	0.13	0.04	0.2
Ringing in ears (S)	2	257						Social Functioning	0.14	0.03	0.15
Ringing in ears (S)	2	258						Global Health Status/QoL	0.14	0.02	0.15
Ringing in ears (S)	2	255						HRQL Summary Score	0.23	<0.001	0.003
Sad or unhappy feelings (F)	1	840	ECOG PS 2-4 Currently taking depression med	ECOG PS 0-1 Other	0.28	0.98	0.28			0.002	0.002
Sad or unhappy feelings (F)	1	840			0.53	0.97	0.55	Physical Functioning	0.32	<0.001	<0.001
Sad or unhappy feelings (F)	1	824						Role Functioning	0.38	<0.001	<0.001
Sad or unhappy feelings (F)	1	824						Emotional Functioning	0.66	<0.001	<0.001
Sad or unhappy feelings (F)	1	821						Cognitive Functioning	0.38	<0.001	<0.001
Sad or unhappy feelings (F)	1	821						Social Functioning	0.41	<0.001	<0.001
Sad or unhappy feelings (F)	1	821						Global Health Status/QoL	0.37	<0.001	<0.001
Sad or unhappy feelings (F)	1	819						HRQL Summary Score	0.49	<0.001	<0.001
Sad or unhappy feelings (F)	2	783	ECOG PS 2-4 Currently taking depression med	ECOG PS 0-1 Other	0.30	0.98	0.30			0.002	0.002
Sad or unhappy feelings (F)	2	783			0.67	0.96	0.70	Physical Functioning	0.31	<0.001	<0.001
Sad or unhappy feelings (F)	2	761						Role Functioning	0.29	<0.001	<0.001
Sad or unhappy feelings (F)	2	759						Emotional Functioning	0.69	<0.001	<0.001
Sad or unhappy feelings (F)	2	759						Cognitive Functioning	0.40	<0.001	<0.001
Sad or unhappy feelings (F)	2	758						Social Functioning	0.35	<0.001	<0.001
Sad or unhappy feelings (F)	2	759						Global Health Status/QoL	0.37	<0.001	<0.001
Sad or unhappy feelings (F)	2	752						HRQL Summary Score	0.47	<0.001	<0.001
Sad or unhappy feelings (S)	1	840	ECOG PS 2-4 Currently taking depression med	ECOG PS 0-1 Other	0.31	0.90	0.34			<0.001	<0.001
Sad or unhappy feelings (S)	1	840			0.52	0.89	0.58	Physical Functioning	0.32	<0.001	<0.001
Sad or unhappy feelings (S)	1	824						Role Functioning	0.37	<0.001	<0.001
Sad or unhappy feelings (S)	1	824						Emotional Functioning	0.64	<0.001	<0.001
Sad or unhappy feelings (S)	1	821						Cognitive Functioning	0.39	<0.001	<0.001
Sad or unhappy feelings (S)	1	821						Social Functioning	0.40	<0.001	<0.001
Sad or unhappy feelings (S)	1	821						Global Health Status/QoL	0.37	<0.001	<0.001
Sad or unhappy feelings (S)	1	819						HRQL Summary Score	0.50	<0.001	<0.001
Sad or unhappy feelings (S)	2	783	ECOG PS 2-4 Currently taking depression med	ECOG PS 0-1 Other	0.29	0.87	0.34			<0.001	<0.001
Sad or unhappy feelings (S)	2	783			0.68	0.84	0.81	Physical Functioning	0.33	<0.001	<0.001
Sad or unhappy feelings (S)	2	761						Role Functioning	0.32	<0.001	<0.001
Sad or unhappy feelings (S)	2	759						Emotional Functioning	0.66	<0.001	<0.001
Sad or unhappy feelings (S)	2	758						Cognitive Functioning	0.40	<0.001	<0.001
Sad or unhappy feelings (S)	2	759						Social Functioning	0.37	<0.001	<0.001
Sad or unhappy feelings (S)	2	752						Global Health Status/QoL	0.38	<0.001	<0.001
Sad or unhappy feelings (S)	2	752						HRQL Summary Score	0.49	<0.001	<0.001
Sad or unhappy feelings (I)	1	840	ECOG PS 2-4 Currently taking depression med	ECOG PS 0-1 Other	0.39	0.96	0.40			<0.001	<0.001
Sad or unhappy feelings (I)	1	840			0.57	0.95	0.60	Physical Functioning	0.34	<0.001	<0.001
Sad or unhappy feelings (I)	1	824						Role Functioning	0.40	<0.001	<0.001
Sad or unhappy feelings (I)	1	824						Emotional Functioning	0.63	<0.001	<0.001
Sad or unhappy feelings (I)	1	821						Cognitive Functioning	0.38	<0.001	<0.001
Sad or unhappy feelings (I)	1	821						Social Functioning	0.49	<0.001	<0.001
Sad or unhappy feelings (I)	1	821						Global Health Status/QoL	0.37	<0.001	<0.001
Sad or unhappy feelings (I)	1	819						HRQL Summary Score	0.50	<0.001	<0.001
Sad or unhappy feelings (I)	2	782	ECOG PS 2-4 Currently taking depression med	ECOG PS 0-1 Other	0.35	0.90	0.39			<0.001	<0.001
Sad or unhappy feelings (I)	2	782			0.64	0.88	0.73	Physical Functioning	0.38	<0.001	<0.001
Sad or unhappy feelings (I)	2	760						Role Functioning	0.38	<0.001	<0.001
Sad or unhappy feelings (I)	2	758						Emotional Functioning	0.63	<0.001	<0.001
Sad or unhappy feelings (I)	2	758						Cognitive Functioning	0.41	<0.001	<0.001
Sad or unhappy feelings (I)	2	757						Social Functioning	0.43	<0.001	<0.001
Sad or unhappy feelings (I)	2	758						Global Health Status/QoL	0.36	<0.001	<0.001
Sad or unhappy feelings (I)	2	751						HRQL Summary Score	0.52	<0.001	<0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Shivering or shaking chills (F)	1	200	ECOG PS 2-4	ECOG PS 0-1	0.37	0.91	0.41	Physical Functioning	0.28	0.02	0.07
Shivering or shaking chills (F)	1	199					Role Functioning	0.28	<0.001	<0.001	<0.001
Shivering or shaking chills (F)	1	199					Emotional Functioning	0.22	0.002	0.02	0.02
Shivering or shaking chills (F)	1	199					Cognitive Functioning	0.17	0.02	0.07	0.07
Shivering or shaking chills (F)	1	199					Social Functioning	0.30	<0.001	<0.001	<0.001
Shivering or shaking chills (F)	1	199					Global Health Status/QoL	0.30	<0.001	<0.001	<0.001
Shivering or shaking chills (F)	1	197					HRQL Summary Score	0.37	<0.001	<0.001	<0.001
Shivering or shaking chills (F)	2	176	ECOG PS 2-4	ECOG PS 0-1	0.29	0.84	0.34	Physical Functioning	0.20	0.007	0.04
Shivering or shaking chills (F)	2	175					Role Functioning	0.31	<0.001	<0.001	<0.001
Shivering or shaking chills (F)	2	175					Emotional Functioning	0.23	0.002	0.02	0.02
Shivering or shaking chills (F)	2	175					Cognitive Functioning	0.22	0.004	0.02	0.02
Shivering or shaking chills (F)	2	175					Social Functioning	0.15	0.049	0.09	0.09
Shivering or shaking chills (F)	2	175					Global Health Status/QoL	0.18	0.02	0.07	0.07
Shivering or shaking chills (F)	2	175					HRQL Summary Score	0.36	<0.001	<0.001	<0.001
Shivering or shaking chills (S)	1	200	ECOG PS 2-4	ECOG PS 0-1	0.31	0.82	0.38	Physical Functioning	0.28	0.03	0.1
Shivering or shaking chills (S)	1	199					Role Functioning	0.25	<0.001	<0.001	<0.001
Shivering or shaking chills (S)	1	199					Emotional Functioning	0.23	0.001	0.01	0.01
Shivering or shaking chills (S)	1	199					Cognitive Functioning	0.16	0.02	0.09	0.09
Shivering or shaking chills (S)	1	199					Social Functioning	0.28	<0.001	<0.001	<0.001
Shivering or shaking chills (S)	1	199					Global Health Status/QoL	0.34	<0.001	<0.001	<0.001
Shivering or shaking chills (S)	1	197					HRQL Summary Score	0.37	<0.001	<0.001	<0.001
Shivering or shaking chills (S)	2	176	ECOG PS 2-4	ECOG PS 0-1	0.25	0.78	0.32	Physical Functioning	0.19	0.01	0.07
Shivering or shaking chills (S)	2	175					Role Functioning	0.31	<0.001	<0.001	<0.001
Shivering or shaking chills (S)	2	175					Emotional Functioning	0.21	0.004	0.04	0.04
Shivering or shaking chills (S)	2	175					Cognitive Functioning	0.18	0.02	0.08	0.08
Shivering or shaking chills (S)	2	175					Social Functioning	0.14	0.07	0.11	0.11
Shivering or shaking chills (S)	2	175					Global Health Status/QoL	0.18	0.02	0.08	0.08
Shivering or shaking chills (S)	2	175					HRQL Summary Score	0.36	<0.001	<0.001	<0.001
Shortness of breath (S)	1	832	ECOG PS 2-4	ECOG PS 0-1	0.66	0.90	0.74	Physical Functioning	0.47	<0.001	<0.001
Shortness of breath (S)	1	832	Currently using an inhaler	Other	0.91	0.89	1.03	Role Functioning	0.36	<0.001	<0.001
Shortness of breath (S)	1	816					Emotional Functioning	0.26	<0.001	<0.001	<0.001
Shortness of breath (S)	1	813					Cognitive Functioning	0.25	<0.001	<0.001	<0.001
Shortness of breath (S)	1	813					Social Functioning	0.30	<0.001	<0.001	<0.001
Shortness of breath (S)	1	813					Global Health Status/QoL	0.33	<0.001	<0.001	<0.001
Shortness of breath (S)	1	811					HRQL Summary Score	0.48	<0.001	<0.001	<0.001
Shortness of breath (S)	1	816					Dyspnea	0.79	<0.001	<0.001	<0.001
Shortness of breath (S)	2	771	ECOG PS 2-4	ECOG PS 0-1	0.46	0.90	0.51	Physical Functioning	0.45	<0.001	<0.001
Shortness of breath (S)	2	749	Currently using an inhaler	Other	0.90	0.88	1.03	Role Functioning	0.34	<0.001	<0.001
Shortness of breath (S)	2	749					Emotional Functioning	0.26	<0.001	<0.001	<0.001
Shortness of breath (S)	2	747					Cognitive Functioning	0.28	<0.001	<0.001	<0.001
Shortness of breath (S)	2	747					Social Functioning	0.26	<0.001	<0.001	<0.001
Shortness of breath (S)	2	746					Global Health Status/QoL	0.33	<0.001	<0.001	<0.001
Shortness of breath (S)	2	747					HRQL Summary Score	0.46	<0.001	<0.001	<0.001
Shortness of breath (S)	2	740					Dyspnea	0.81	<0.001	<0.001	<0.001
Shortness of breath (S)	2	749					Physical Functioning	0.46	<0.001	<0.001	<0.001
Shortness of breath (I)	1	832	ECOG PS 2-4	ECOG PS 0-1	0.60	0.97	0.62	Role Functioning	0.46	<0.001	<0.001
Shortness of breath (I)	1	832	Currently using an inhaler	Other	0.73	0.97	0.76	Emotional Functioning	0.38	<0.001	<0.001
Shortness of breath (I)	1	816					Cognitive Functioning	0.26	<0.001	<0.001	<0.001
Shortness of breath (I)	1	813					Social Functioning	0.23	<0.001	<0.001	<0.001
Shortness of breath (I)	1	813					Global Health Status/QoL	0.34	<0.001	<0.001	<0.001
Shortness of breath (I)	1	813					HRQL Summary Score	0.31	<0.001	<0.001	<0.001
Shortness of breath (I)	1	811					Dyspnea	0.47	<0.001	<0.001	<0.001
Shortness of breath (I)	1	816					Physical Functioning	0.69	<0.001	<0.001	<0.001
Shortness of breath (I)	2	770	ECOG PS 2-4	ECOG PS 0-1	0.48	0.92	0.52	Role Functioning	0.46	<0.001	<0.001
Shortness of breath (I)	2	770	Currently using an inhaler	Other	0.74	0.91	0.81	Emotional Functioning	0.38	<0.001	<0.001
Shortness of breath (I)	2	748					Cognitive Functioning	0.29	<0.001	<0.001	<0.001
Shortness of breath (I)	2	746					Social Functioning	0.29	<0.001	<0.001	<0.001
Shortness of breath (I)	2	745					Global Health Status/QoL	0.32	<0.001	<0.001	<0.001
Shortness of breath (I)	2	746					HRQL Summary Score	0.36	<0.001	<0.001	<0.001
Shortness of breath (I)	2	739					Dyspnea	0.48	<0.001	<0.001	<0.001
Shortness of breath (I)	2	748					Physical Functioning	0.73	<0.001	<0.001	<0.001
Skin burns from radiation (S)	1	351	ECOG PS 2-4	ECOG PS 0-1	-0.09	0.71	-0.12	Physical Functioning	0.46	<0.001	<0.001
							Role Functioning	0.38	<0.001	<0.001	<0.001
							Emotional Functioning	0.29	<0.001	<0.001	<0.001
							Cognitive Functioning	0.29	<0.001	<0.001	<0.001
							Social Functioning	0.32	<0.001	<0.001	<0.001
							Global Health Status/QoL	0.36	<0.001	<0.001	<0.001
							HRQL Summary Score	0.48	<0.001	<0.001	<0.001
							Dyspnea	0.73	<0.001	<0.001	<0.001
							Physical Functioning	0.46	<0.001	<0.001	<0.001
							Role Functioning	0.38	<0.001	<0.001	<0.001
							Emotional Functioning	0.29	<0.001	<0.001	<0.001
							Cognitive Functioning	0.29	<0.001	<0.001	<0.001
							Social Functioning	0.32	<0.001	<0.001	<0.001
							Global Health Status/QoL	0.36	<0.001	<0.001	<0.001
							HRQL Summary Score	0.48	<0.001	<0.001	<0.001
							Dyspnea	0.73	<0.001	<0.001	<0.001
							Physical Functioning	0.46	<0.001	<0.001	<0.001
							Role Functioning	0.38	<0.001	<0.001	<0.001
							Emotional Functioning	0.29	<0.001	<0.001	<0.001
							Cognitive Functioning	0.29	<0.001	<0.001	<0.001
							Social Functioning	0.32	<0.001	<0.001	<0.001
							Global Health Status/QoL	0.36	<0.001	<0.001	<0.001
							HRQL Summary Score	0.48	<0.001	<0.001	<0.001
							Dyspnea	0.73	<0.001	<0.001	<0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value					
ECOG PS 2-4	1	351	Radiation therapy in prior 2 weeks	Other	0.09	0.70	0.12	Physical Functioning	0.05	0.27	0.71					
ECOG PS 2-4	1	334	Radiation therapy in prior 2 weeks	Other	-0.25 0.53	0.94 0.92	-0.26 0.58	Role Functioning	0.08	0.39	0.71					
ECOG PS 2-4	1	334						Emotional Functioning	0.11	0.14	0.71					
ECOG PS 2-4	1	332						Cognitive Functioning	0.19	0.047	0.52					
ECOG PS 2-4	1	332						Social Functioning	0.13	<0.001	0.008					
ECOG PS 2-4	1	332						Global Health Status/QoL	0.14	0.02	0.21					
ECOG PS 2-4	1	330						HRQOL Summary Score	0.16	0.009	0.13					
ECOG PS 2-4	2	314						Radiation therapy in prior 2 weeks	Other	-0.25 0.53	0.94 0.92	-0.26 0.58	Physical Functioning	0.02	<0.001	<0.001
ECOG PS 2-4	2	299											Role Functioning	0.09	0.11	0.71
ECOG PS 2-4	2	299											Emotional Functioning	0.09	0.11	0.69
ECOG PS 2-4	2	298											Cognitive Functioning	0.20	<0.001	0.007
ECOG PS 2-4	2	298	Social Functioning	0.09	0.11	0.69										
ECOG PS 2-4	2	298	Global Health Status/QoL	0.10	0.09	0.69										
ECOG PS 2-4	2	298	HRQOL Summary Score	0.09	0.11	0.69										
ECOG PS 2-4	2	296	Physical Functioning	0.15	0.01	0.16										
ECOG PS 2-4	2	220	Role Functioning	0.23	0.001	0.004										
ECOG PS 2-4	2	220	Emotional Functioning	0.14	0.03	0.18										
ECOG PS 2-4	2	218	Cognitive Functioning	0.20	0.002	0.02										
ECOG PS 2-4	2	218	Social Functioning	0.16	0.01	0.1										
ECOG PS 2-4	2	218	Global Health Status/QoL	0.29	<0.001	<0.001										
ECOG PS 2-4	2	218	HRQOL Summary Score	0.28	<0.001	<0.001										
ECOG PS 2-4	2	220	Physical Functioning	0.18	0.79	0.22										
ECOG PS 2-4	2	124	Head/Neck	Hematologic	-0.01	0.87	-0.01	Physical Functioning	0.25	0.95	0.95					
ECOG PS 2-4	2	220	Head/Neck with radiation therapy in prior 2 weeks	Other	0.16	0.79	0.20	Role Functioning	0.30	0.15	0.79					
ECOG PS 2-4	2	218	Head/Neck with radiation therapy in prior 2 weeks	Other	0.16	0.79	0.20	Emotional Functioning	0.24	<0.001	<0.001					
ECOG PS 2-4	2	218	Head/Neck with radiation therapy in prior 2 weeks	Other	0.16	0.79	0.20	Cognitive Functioning	0.22	0.001	0.004					
ECOG PS 2-4	2	218	Head/Neck with radiation therapy in prior 2 weeks	Other	0.16	0.79	0.20	Social Functioning	0.33	<0.001	<0.001					
ECOG PS 2-4	2	218	Head/Neck with radiation therapy in prior 2 weeks	Other	0.16	0.79	0.20	Global Health Status/QoL	0.22	0.001	0.01					
ECOG PS 2-4	2	218	Head/Neck with radiation therapy in prior 2 weeks	Other	0.16	0.79	0.20	HRQOL Summary Score	0.38	0.001	<0.001					
ECOG PS 2-4	2	268	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Physical Functioning	0.09	0.34	0.95					
ECOG PS 2-4	2	265	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Role Functioning	0.05	0.16	0.95					
ECOG PS 2-4	2	261	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Emotional Functioning	0.20	0.001	0.02					
ECOG PS 2-4	2	261	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Cognitive Functioning	0.15	0.02	0.22					
ECOG PS 2-4	2	261	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Social Functioning	0.05	0.45	0.95					
ECOG PS 2-4	2	261	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Global Health Status/QoL	0.11	0.09	0.95					
ECOG PS 2-4	2	239	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	HRQOL Summary Score	0.16	0.008	0.12					
ECOG PS 2-4	2	236	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Physical Functioning	0.08	0.29	0.95					
ECOG PS 2-4	2	234	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Role Functioning	0.01	0.22	0.95					
ECOG PS 2-4	2	234	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Emotional Functioning	0.01	0.89	0.95					
ECOG PS 2-4	2	234	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Cognitive Functioning	0.05	0.45	0.95					
ECOG PS 2-4	2	234	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Social Functioning	0.04	0.57	0.95					
ECOG PS 2-4	2	234	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Global Health Status/QoL	-0.04	0.54	0.95					
ECOG PS 2-4	2	234	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	HRQOL Summary Score	0.01	0.88	0.95					
ECOG PS 2-4	2	234	ECOG PS 2-4	ECOG PS 0-1	7.09%		0.17	Physical Functioning	0.00	0.95	0.95					
ECOG PS 2-4	1	200	ECOG PS 2-4	ECOG PS 0-1	-2.17%		-0.07	Physical Functioning	0.01	0.71	0.99					
ECOG PS 2-4	1	199	ECOG PS 2-4	ECOG PS 0-1	-2.17%		-0.07	Role Functioning	-0.03	0.01	0.21					
ECOG PS 2-4	1	199	ECOG PS 2-4	ECOG PS 0-1	-2.17%		-0.07	Emotional Functioning	-0.07	0.72	0.99					
ECOG PS 2-4	1	199	ECOG PS 2-4	ECOG PS 0-1	-2.17%		-0.07	Cognitive Functioning	-0.02	0.35	0.99					
ECOG PS 2-4	1	199	ECOG PS 2-4	ECOG PS 0-1	-2.17%		-0.07	Social Functioning	0.04	0.74	0.99					
ECOG PS 2-4	1	199	ECOG PS 2-4	ECOG PS 0-1	-2.17%		-0.07	Global Health Status/QoL	0.04	0.54	0.99					
ECOG PS 2-4	1	199	ECOG PS 2-4	ECOG PS 0-1	-2.17%		-0.07	HRQOL Summary Score	-0.01	0.85	0.99					
ECOG PS 2-4	1	197	ECOG PS 2-4	ECOG PS 0-1	-2.17%		-0.07	Physical Functioning	0.01	0.85	0.99					
ECOG PS 2-4	2	176	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Role Functioning	0.00	0.99	0.99					
ECOG PS 2-4	2	176	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Emotional Functioning	0.31	0.31	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Cognitive Functioning	0.01	0.01	0.21					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Social Functioning	0.14	0.06	0.88					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Global Health Status/QoL	0.11	0.13	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	HRQOL Summary Score	0.11	0.15	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Physical Functioning	0.11	0.15	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Role Functioning	0.01	0.87	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Emotional Functioning	0.05	0.52	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Cognitive Functioning	0.05	0.52	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Social Functioning	0.05	0.52	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	Global Health Status/QoL	0.05	0.52	0.99					
ECOG PS 2-4	2	175	ECOG PS 2-4	ECOG PS 0-1	6.94%		0.19	HRQOL Summary Score	0.20	0.08	0.15					
Sudden urges to urinate (F)	1	219	ECOG PS 2-4	ECOG PS 0-1	0.26	1.03	0.25	Physical Functioning	0.14	0.2	0.38					
Sudden urges to urinate (F)	1	55	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	0.93	1.03	0.90	Role Functioning	0.11	0.002	0.03					

PROCTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Sudden urges to urinate (F)	1	218						Physical Functioning	0.16	0.02	0.15
Sudden urges to urinate (F)	1	218						Role Functioning	0.14	0.04	0.16
Sudden urges to urinate (F)	1	218						Emotional Functioning	0.20	0.003	0.03
Sudden urges to urinate (F)	1	218						Cognitive Functioning	0.12	0.07	0.22
Sudden urges to urinate (F)	1	218						Social Functioning	0.16	0.02	0.15
Sudden urges to urinate (F)	1	218						Global Health Status/QoL	0.23	<0.001	0.009
Sudden urges to urinate (F)	1	216	ECOG PS 2-4	ECOG PS 0-1	0.21	1.08	0.19	HRQL Summary Score	0.25	<0.001	0.003
Sudden urges to urinate (F)	2	193	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	1.68	1.06	1.58	Physical Functioning		0.38	0.38
Sudden urges to urinate (F)	2	48						Role Functioning	0.16	<0.001	<0.001
Sudden urges to urinate (F)	2	191						Emotional Functioning	0.19	0.03	0.16
Sudden urges to urinate (F)	2	190						Cognitive Functioning	0.15	0.009	0.09
Sudden urges to urinate (F)	2	189						Social Functioning	0.19	0.008	0.09
Sudden urges to urinate (F)	2	190						Global Health Status/QoL	0.16	0.03	0.16
Sudden urges to urinate (F)	2	187						HRQL Summary Score	0.27	<0.001	0.003
Sudden urges to urinate (F)	2	187						HRQL Summary Score	0.24	<0.001	0.01
Sudden urges to urinate (I)	1	219						Physical Functioning	0.12	0.32	0.63
Sudden urges to urinate (I)	1	55	ECOG PS 2-4	ECOG PS 0-1	0.20	0.99	0.20	Role Functioning	0.25	0.006	0.04
Sudden urges to urinate (I)	1	218	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	0.90	1.13	0.80	Emotional Functioning	0.16	<0.001	0.004
Sudden urges to urinate (I)	1	218						Cognitive Functioning	0.23	0.02	0.18
Sudden urges to urinate (I)	1	218						Social Functioning	0.07	<0.001	0.01
Sudden urges to urinate (I)	1	218						Global Health Status/QoL	0.21	0.001	0.02
Sudden urges to urinate (I)	1	218						HRQL Summary Score	0.29	0.002	0.03
Sudden urges to urinate (I)	1	216	ECOG PS 2-4	ECOG PS 0-1	0.05	0.86	0.06	Physical Functioning	0.12	<0.001	<0.001
Sudden urges to urinate (I)	1	218	Prostate/Bladder with radiation therapy in prior 2 weeks	Hematologic	1.14	0.88	1.30	Role Functioning	0.16	0.11	0.57
Sudden urges to urinate (I)	2	191						Emotional Functioning	0.17	0.03	0.19
Sudden urges to urinate (I)	2	190						Cognitive Functioning	0.10	0.02	0.18
Sudden urges to urinate (I)	2	190						Social Functioning	0.10	0.15	0.61
Sudden urges to urinate (I)	2	189						Global Health Status/QoL	0.16	0.03	0.18
Sudden urges to urinate (I)	2	190						HRQL Summary Score	0.17	0.02	0.18
Sudden urges to urinate (I)	2	187						HRQL Summary Score	0.16	0.02	0.18
Too long to have an orgasm or climax (P)	1	101						Physical Functioning	0.18	0.62	0.62
Too long to have an orgasm or climax (P)	1	97	ECOG PS 2-4	ECOG PS 0-1	-8.05%		-0.21	Role Functioning	0.07	0.08	0.47
Too long to have an orgasm or climax (P)	1	97						Emotional Functioning	0.16	0.51	0.62
Too long to have an orgasm or climax (P)	1	97						Cognitive Functioning	0.23	0.12	0.47
Too long to have an orgasm or climax (P)	1	97						Social Functioning	0.19	0.02	0.31
Too long to have an orgasm or climax (P)	1	97						Global Health Status/QoL	0.18	0.07	0.47
Too long to have an orgasm or climax (P)	1	92	ECOG PS 2-4	ECOG PS 0-1	-25.58%		-1.06	HRQL Summary Score	0.24	0.02	0.24
Too long to have an orgasm or climax (P)	2	86						Physical Functioning	0.20	0.16	0.47
Too long to have an orgasm or climax (P)	2	88						Role Functioning	0.28	0.07	0.47
Too long to have an orgasm or climax (P)	2	87						Emotional Functioning	0.16	0.14	0.11
Too long to have an orgasm or climax (P)	2	87						Cognitive Functioning	0.24	0.03	0.32
Too long to have an orgasm or climax (P)	2	87						Social Functioning	0.35	<0.001	0.01
Too long to have an orgasm or climax (P)	2	87						Global Health Status/QoL	0.18	0.1	0.47
Too long to have an orgasm or climax (P)	2	86						HRQL Summary Score	0.23	0.03	0.38
Unable to have an orgasm or climax (P)	1	113						Physical Functioning	0.19	0.87	0.87
Unable to have an orgasm or climax (P)	1	110	ECOG PS 2-4	ECOG PS 0-1	-2.62%		-0.06	Role Functioning	0.06	0.53	0.62
Unable to have an orgasm or climax (P)	1	110						Emotional Functioning	0.06	0.06	0.87
Unable to have an orgasm or climax (P)	1	110						Cognitive Functioning	0.10	0.28	0.87
Unable to have an orgasm or climax (P)	1	110						Social Functioning	0.11	0.27	0.87
Unable to have an orgasm or climax (P)	1	110						Global Health Status/QoL	0.16	0.09	0.8
Unable to have an orgasm or climax (P)	2	92	ECOG PS 2-4	ECOG PS 0-1	-12.77%		-0.32	HRQL Summary Score	0.17	0.08	0.8
Unable to have an orgasm or climax (P)	2	89						Physical Functioning	0.23	0.46	0.87
Unable to have an orgasm or climax (P)	2	88						Role Functioning	0.28	0.03	0.4
Unable to have an orgasm or climax (P)	2	88						Emotional Functioning	0.07	0.007	0.12
Unable to have an orgasm or climax (P)	2	88						Cognitive Functioning	0.19	0.54	0.87
Unable to have an orgasm or climax (P)	2	88						Social Functioning	0.27	0.07	0.79
Unable to have an orgasm or climax (P)	2	88						Global Health Status/QoL	0.15	0.01	0.15
Unable to have an orgasm or climax (P)	2	87						HRQL Summary Score	0.23	0.16	0.87
Unexpected decrease in sweating (P)	1	409						Physical Functioning	0.00	0.53	0.98
Unexpected decrease in sweating (P)	1	394	ECOG PS 2-4	ECOG PS 0-1	-1.96%		-0.10	Role Functioning	0.07	0.98	0.98
Unexpected decrease in sweating (P)	1	394						Emotional Functioning	0.11	0.17	0.84
Unexpected decrease in sweating (P)	1	394						Cognitive Functioning	0.03	0.03	0.27
Unexpected decrease in sweating (P)	1	394						Social Functioning	0.05	0.34	0.98
Unexpected decrease in sweating (P)	1	394						Global Health Status/QoL	0.10	0.04	0.32
Unexpected decrease in sweating (P)	1	394						HRQL Summary Score	0.12	0.02	0.18

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Unexpected decrease in sweating (P)	1	391	ECOG PS 2-4	ECOG PS 0-1	-0.84%		-0.04	HRQOL Summary Score	0.08	0.12	0.89
Unexpected decrease in sweating (P)	2	371	ECOG PS 2-4	ECOG PS 0-1				Physical Functioning	0.09	0.82	0.98
Unexpected decrease in sweating (P)	2	356	ECOG PS 2-4	ECOG PS 0-1				Role Functioning	0.18	0.08	0.59
Unexpected decrease in sweating (P)	2	356	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.23	<0.001	0.006
Unexpected decrease in sweating (P)	2	356	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.22	<0.001	<0.001
Unexpected decrease in sweating (P)	2	356	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.23	<0.001	<0.001
Unexpected decrease in sweating (P)	2	352	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.11	0.03	0.3
Unexpected decrease in sweating (P)	2	352	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.21	<0.001	<0.001
Unexpected or excessive sweating (F)	1	368	Breast/Prostate	Gastrointestinal	0.21	1.00	0.21	Physical Functioning	0.12	0.22	0.35
Unexpected or excessive sweating (F)	1	291	Breast/Prostate	Gastrointestinal	0.14	1.03	0.14	Role Functioning	0.14	0.02	0.35
Unexpected or excessive sweating (F)	1	360	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.19	0.007	0.06
Unexpected or excessive sweating (F)	1	360	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.20	<0.001	0.003
Unexpected or excessive sweating (F)	1	360	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.20	0.03	0.12
Unexpected or excessive sweating (F)	1	360	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.15	<0.001	0.002
Unexpected or excessive sweating (F)	1	360	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.22	0.04	0.04
Unexpected or excessive sweating (F)	1	358	ECOG PS 2-4	ECOG PS 0-1				Physical Functioning	0.19	0.001	<0.001
Unexpected or excessive sweating (F)	1	358	ECOG PS 2-4	ECOG PS 0-1				Role Functioning	0.13	0.02	0.12
Unexpected or excessive sweating (F)	2	326	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.28	<0.001	<0.001
Unexpected or excessive sweating (F)	2	326	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.22	<0.001	<0.001
Unexpected or excessive sweating (F)	2	325	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.18	<0.001	0.009
Unexpected or excessive sweating (F)	2	326	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.16	0.003	0.03
Unexpected or excessive sweating (F)	2	320	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.26	<0.001	<0.001
Unexpected or excessive sweating (S)	1	368	ECOG PS 2-4	ECOG PS 0-1	0.22	0.88	0.25	Physical Functioning	0.14	0.14	0.23
Unexpected or excessive sweating (S)	1	291	Breast/Prostate	Gastrointestinal	0.19	0.90	0.21	Role Functioning	0.10	0.17	0.23
Unexpected or excessive sweating (S)	1	360	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.13	0.049	0.19
Unexpected or excessive sweating (S)	1	360	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.19	0.02	0.09
Unexpected or excessive sweating (S)	1	360	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.13	<0.001	0.004
Unexpected or excessive sweating (S)	1	360	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.18	0.02	0.09
Unexpected or excessive sweating (S)	1	360	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.22	<0.001	<0.001
Unexpected or excessive sweating (S)	1	358	ECOG PS 2-4	ECOG PS 0-1				Physical Functioning	0.19	0.01	0.09
Unexpected or excessive sweating (S)	1	358	ECOG PS 2-4	ECOG PS 0-1				Role Functioning	0.13	<0.001	0.006
Unexpected or excessive sweating (S)	2	326	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.28	0.02	0.09
Unexpected or excessive sweating (S)	2	326	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.23	<0.001	<0.001
Unexpected or excessive sweating (S)	2	325	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.20	<0.001	<0.001
Unexpected or excessive sweating (S)	2	326	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.18	<0.001	0.004
Unexpected or excessive sweating (S)	2	326	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.22	0.001	0.01
Unexpected or excessive sweating (S)	2	320	ECOG PS 2-4	ECOG PS 0-1				Physical Functioning	0.19	<0.001	0.006
Unexpected or excessive sweating (S)	2	325	ECOG PS 2-4	ECOG PS 0-1				Role Functioning	0.13	0.02	0.09
Unexpected or excessive sweating (S)	2	326	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.28	<0.001	<0.001
Unexpected or excessive sweating (S)	2	326	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.23	<0.001	<0.001
Unexpected or excessive sweating (S)	2	325	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.20	<0.001	<0.001
Unexpected or excessive sweating (S)	2	326	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.18	<0.001	0.004
Unexpected or excessive sweating (S)	2	320	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.28	<0.001	<0.001
Unusual darkening of the skin (P)	1	508	ECOG PS 2-4	ECOG PS 0-1	-7.42%		-0.24	Physical Functioning	0.07	0.1	0.2
Unusual darkening of the skin (P)	1	508	Radiation therapy in prior 2 weeks	Other	4.90%		0.14	Role Functioning	0.12	0.11	0.2
Unusual darkening of the skin (P)	1	491	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.12	0.01	0.14
Unusual darkening of the skin (P)	1	491	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.19	0.01	0.14
Unusual darkening of the skin (P)	1	488	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.06	<0.001	<0.001
Unusual darkening of the skin (P)	1	488	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.16	0.2	0.2
Unusual darkening of the skin (P)	1	488	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.16	<0.001	0.004
Unusual darkening of the skin (P)	2	459	ECOG PS 2-4	ECOG PS 0-1				Physical Functioning	0.06	0.09	0.2
Unusual darkening of the skin (P)	2	459	Radiation therapy in prior 2 weeks	Other				Role Functioning	0.06	<0.001	0.007
Unusual darkening of the skin (P)	2	443	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.07	0.19	0.2
Unusual darkening of the skin (P)	2	443	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.06	0.16	0.2
Unusual darkening of the skin (P)	2	443	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.06	0.17	0.2
Unusual darkening of the skin (P)	2	443	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.07	0.14	0.2
Unusual darkening of the skin (P)	2	443	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.09	0.05	0.2
Unusual darkening of the skin (P)	2	439	ECOG PS 2-4	ECOG PS 0-1				Physical Functioning	0.06	0.2	0.2
Unusual vaginal discharge (A)	1	224	ECOG PS 2-4	ECOG PS 0-1	0.04	0.48	0.08	Physical Functioning	0.04	0.73	0.95
Unusual vaginal discharge (A)	1	100	Age >60	Age >60	0.47	0.57	0.83	Role Functioning	0.04	<0.001	0.005
Unusual vaginal discharge (A)	1	180	Breast	Hematologic	-0.09	0.43	-0.20	Emotional Functioning	0.06	0.39	0.95
Unusual vaginal discharge (A)	1	216	ECOG PS 2-4	ECOG PS 0-1				Cognitive Functioning	0.06	0.52	0.95
Unusual vaginal discharge (A)	1	216	ECOG PS 2-4	ECOG PS 0-1				Social Functioning	0.06	0.39	0.95
Unusual vaginal discharge (A)	1	216	ECOG PS 2-4	ECOG PS 0-1				Global Health Status/QoL	0.11	0.008	0.15
Unusual vaginal discharge (A)	1	216	ECOG PS 2-4	ECOG PS 0-1				HRQOL Summary Score	0.09	0.09	0.95
Unusual vaginal discharge (A)	1	216	ECOG PS 2-4	ECOG PS 0-1				Physical Functioning	0.09	0.2	0.95
Unusual vaginal discharge (A)	1	216	ECOG PS 2-4	ECOG PS 0-1				Role Functioning	0.08	0.24	0.95
Unusual vaginal discharge (A)	1	215	ECOG PS 2-4	ECOG PS 0-1				Emotional Functioning	0.16	0.02	0.31

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Unusual vaginal discharge (A)	2	209	ECOG PS 2-4 Age <40 Breast	ECOG PS 0-1 Age >60 Hematologic	0.01 0.50 0.08	0.48 0.56 0.42	0.90 0.90 0.20	Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. . . 0.06 0.08 0.18 0.11 0.05 0.12 0.16	0.95 <0.001 0.43 0.43 0.95 0.26 0.01 0.11 0.49 0.08 0.03	0.95 <0.001 0.95 0.95 0.95 0.22 0.95 0.95 0.95 0.43
Urine color change (P)	1	227	ECOG PS 2-4	ECOG PS 0-1 Other	10.59% 5.68%		0.29 0.16			0.1	0.8
Urine color change (P)	1	227	Daunorubicin/doxorubicin/mitoxantrone in prior 2 weeks					Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. .09 .09 0.11 0.08 0.07 0.19	0.58 0.1 0.16 0.1 0.21 0.01 0.29 0.004 0.87 0.87	0.87 0.8 0.87 0.8 0.87 0.17 0.87 0.07 0.87 0.87
Urine color change (P)	2	200	ECOG PS 2-4	ECOG PS 0-1 Other	-1.11% 55.84%		-0.03 1.24			<0.001 0.02 0.03 0.03 0.047 0.007 0.1 0.16 0.87 0.58	<0.001 0.24 0.02 0.03 0.31 0.52 0.1 0.87 0.87 0.17
Urine color change (P)	2	198	Daunorubicin/doxorubicin/mitoxantrone in prior 2 weeks					Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. .17 .16 0.14 0.10 0.04 0.04 0.18	0.02 0.03 0.03 0.007 0.16 0.58 0.04 0.18	0.24 1 0.09 1 1 1 1 1 1 1 1
Vaginal dryness (S)	1	224	ECOG PS 2-4	ECOG PS 0-1	-0.24	0.93	-0.25			0.24	1
Vaginal dryness (S)	1	100	Age <40	Age >60	0.51	0.80	0.64			0.004	0.09
Vaginal dryness (S)	1	180	Breast	Hematologic	0	0.93	0			1	1
Vaginal dryness (S)	1	224	Currently receiving hormone therapy	Other	-0.12	0.93	-0.13			0.58	1
Vaginal dryness (S)	1	216						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.05 -0.01 0.08 0.12 0.03 0.04 0.13	0.49 0.85 0.85 0.21 0.08 0.65 0.55 0.05	1 1 1 1 1 1 1 1
Vaginal dryness (S)	1	216						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.08 0.01 0.03 0.08 0.07 0.07 0.36	0.27 0.86 0.66 0.27 0.36 0.34 0.31	1 1 1 1 1 1 1
Vaginal dryness (S)	1	215						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.08 0.01 0.03 0.08 0.07 0.07 0.36	0.27 0.86 0.66 0.27 0.36 0.34 0.31	1 1 1 1 1 1 1
Vaginal dryness (S)	2	209	ECOG PS 2-4	ECOG PS 0-1	-0.48	0.79	-0.61			0.011**	0.21
Vaginal dryness (S)	2	92	Age <40	Age >60	-0.05	0.73	-0.07			0.75	1
Vaginal dryness (S)	2	171	Breast	Hematologic	0.21	0.79	0.27			0.29	1
Vaginal dryness (S)	2	209	Currently receiving hormone therapy	Other	-0.03	0.80	-0.03			0.9	1
Vaginal dryness (S)	2	197						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.08 0.01 0.03 0.08 0.07 0.07 0.36	0.27 0.86 0.66 0.27 0.36 0.34 0.31	1 1 1 1 1 1 1
Vaginal dryness (S)	2	197						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.08 0.01 0.03 0.08 0.07 0.07 0.36	0.27 0.86 0.66 0.27 0.36 0.34 0.31	1 1 1 1 1 1 1
Vaginal dryness (S)	2	199						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.08 0.01 0.03 0.08 0.07 0.07 0.36	0.27 0.86 0.66 0.27 0.36 0.34 0.31	1 1 1 1 1 1 1
Vaginal dryness (S)	2	199						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.08 0.01 0.03 0.08 0.07 0.07 0.36	0.27 0.86 0.66 0.27 0.36 0.34 0.31	1 1 1 1 1 1 1
Vaginal dryness (S)	2	196						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.08 0.01 0.03 0.08 0.07 0.07 0.36	0.27 0.86 0.66 0.27 0.36 0.34 0.31	1 1 1 1 1 1 1
Vaginal dryness (S)	2	199						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	-0.08 0.01 0.03 0.08 0.07 0.07 0.36	0.27 0.86 0.66 0.27 0.36 0.34 0.31	1 1 1 1 1 1 1
Voice changes (P)	1	252	ECOG PS 2-4	ECOG PS 0-1	8.04% 18.57%		0.18 0.41			0.31	0.61
Voice changes (P)	1	252	Head/Neck with radiation therapy in prior 2 weeks	Other				Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.08 0.14 0.02 0.29 0.28 0.19 0.24	0.31 0.001 0.21 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.02 0.9	0.61 0.01 0.01 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.002 0.9
Voice changes (P)	1	249						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.08 0.14 0.02 0.29 0.28 0.19 0.24	0.31 0.001 0.21 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.02 0.9	0.61 0.01 0.01 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.002 0.9
Voice changes (P)	1	246						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.08 0.14 0.02 0.29 0.28 0.19 0.24	0.31 0.001 0.21 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.02 0.9	0.61 0.01 0.01 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.002 0.9
Voice changes (P)	1	246						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.08 0.14 0.02 0.29 0.28 0.19 0.24	0.31 0.001 0.21 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.02 0.9	0.61 0.01 0.01 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.002 0.9
Voice changes (P)	1	244						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.08 0.14 0.02 0.29 0.28 0.19 0.24	0.31 0.001 0.21 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.02 0.9	0.61 0.01 0.01 0.61 0.12 0.02 0.001 0.002 0.001 0.002 0.002 0.9
Voice changes (P)	2	221	ECOG PS 2-4	ECOG PS 0-1	1.05% 26.66%		0.02 0.58			0.01	<0.001
Voice changes (P)	2	221	Head/Neck with radiation therapy in prior 2 weeks	Other				Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.19 0.30 0.22 0.08 0.23 0.28 0.19 0.36	<0.001 0.005 0.001 0.001 0.008 0.23 0.001 0.004 0.03	<0.001 0.03 0.03 0.001 0.008 0.61 0.61 0.03 0.03
Voice changes (P)	2	219						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.19 0.30 0.22 0.08 0.23 0.28 0.19 0.36	<0.001 0.005 0.001 0.001 0.008 0.23 0.001 0.004 0.03	<0.001 0.03 0.03 0.001 0.008 0.61 0.61 0.03 0.03
Voice changes (P)	2	219						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.19 0.30 0.22 0.08 0.23 0.28 0.19 0.36	<0.001 0.005 0.001 0.001 0.008 0.23 0.001 0.004 0.03	<0.001 0.03 0.03 0.001 0.008 0.61 0.61 0.03 0.03
Voice changes (P)	2	219						Physical Functioning Role Functioning Emotional Functioning Cognitive Functioning Social Functioning Global Health Status/QoL HRQL Summary Score	. 0.19 0.30 0.22 0.08 0.23 0.28 0.19 0.36	<0.001 0.005 0.001 0.001 0.008 0.23 0.001 0.004 0.03	<0.001 0.03 0.03 0.001 0.008 0.61 0.61 0.03 0.03
Vomiting (F)	1	826	ECOG PS 2-4	ECOG PS 0-1	0.32	0.70	0.46			<0.001	<0.001
Vomiting (F)	1	826	Currently taking nausea med	Other	0.47	0.67	0.69			<0.001	<0.001
Vomiting (F)	1	810						Physical Functioning Role Functioning Emotional Functioning	. 0.21 0.25	<0.001 0.001 0.001	<0.001 0.001 0.001
Vomiting (F)	1	807						Physical Functioning Role Functioning Emotional Functioning	. 0.21 0.25	<0.001 0.001 0.001	<0.001 0.001 0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Vomiting (F)	1	807						Cognitive Functioning	0.18	<0.001	<0.001
Vomiting (F)	1	807						Social Functioning	0.24	<0.001	<0.001
Vomiting (F)	1	805						Global Health Status/QoL	0.21	<0.001	<0.001
Vomiting (F)	1	810						HRQOL Summary Score	0.40	<0.001	<0.001
Vomiting (F)	1	810						Nausea and Vomiting	0.74	<0.001	<0.001
Vomiting (F)	2	756	ECOG PS 2-4	ECOG PS 0-1	0.34	0.67	0.51			<0.001	<0.001
Vomiting (F)	2	756	Currently taking nausea med	Other	0.38	0.65	0.58			<0.001	<0.001
Vomiting (F)	2	734						Physical Functioning	0.29	<0.001	<0.001
Vomiting (F)	2	734						Role Functioning	0.27	<0.001	<0.001
Vomiting (F)	2	732						Emotional Functioning	0.25	<0.001	<0.001
Vomiting (F)	2	732						Cognitive Functioning	0.29	<0.001	<0.001
Vomiting (F)	2	731						Social Functioning	0.34	<0.001	<0.001
Vomiting (F)	2	732						Global Health Status/QoL	0.30	<0.001	<0.001
Vomiting (F)	2	725						HRQOL Summary Score	0.44	<0.001	<0.001
Vomiting (F)	2	734						Nausea and Vomiting	0.70	<0.001	<0.001
Vomiting (S)	1	826	ECOG PS 2-4	ECOG PS 0-1	0.28	0.71	0.39			<0.001	<0.001
Vomiting (S)	1	810	Currently taking nausea med	Other	0.47	0.68	0.70			<0.001	<0.001
Vomiting (S)	1	810						Physical Functioning	0.19	<0.001	<0.001
Vomiting (S)	1	807						Role Functioning	0.24	<0.001	<0.001
Vomiting (S)	1	807						Emotional Functioning	0.21	<0.001	<0.001
Vomiting (S)	1	807						Cognitive Functioning	0.20	<0.001	<0.001
Vomiting (S)	1	807						Social Functioning	0.25	<0.001	<0.001
Vomiting (S)	1	807						Global Health Status/QoL	0.19	<0.001	<0.001
Vomiting (S)	1	805						HRQOL Summary Score	0.39	<0.001	<0.001
Vomiting (S)	1	810						Nausea and Vomiting	0.70	<0.001	<0.001
Vomiting (S)	2	756	ECOG PS 2-4	ECOG PS 0-1	0.36	0.67	0.54			<0.001	<0.001
Vomiting (S)	2	756	Currently taking nausea med	Other	0.39	0.66	0.59			<0.001	<0.001
Vomiting (S)	2	734						Physical Functioning	0.29	<0.001	<0.001
Vomiting (S)	2	734						Role Functioning	0.25	<0.001	<0.001
Vomiting (S)	2	732						Emotional Functioning	0.27	<0.001	<0.001
Vomiting (S)	2	732						Cognitive Functioning	0.28	<0.001	<0.001
Vomiting (S)	2	731						Social Functioning	0.34	<0.001	<0.001
Vomiting (S)	2	732						Global Health Status/QoL	0.28	<0.001	<0.001
Vomiting (S)	2	725						HRQOL Summary Score	0.44	<0.001	<0.001
Vomiting (S)	2	734						Nausea and Vomiting	0.68	<0.001	<0.001
Watery eyes (S)	1	268	ECOG PS 2-4	ECOG PS 0-1	0.04	0.84	0.05			0.77	0.77
Watery eyes (S)	1	265						Physical Functioning	0.20	<0.001	0.01
Watery eyes (S)	1	265						Role Functioning	0.16	0.16	0.47
Watery eyes (S)	1	261						Emotional Functioning	0.13	0.03	0.21
Watery eyes (S)	1	261						Cognitive Functioning	0.19	0.003	0.03
Watery eyes (S)	1	261						Social Functioning	0.10	0.1	0.41
Watery eyes (S)	1	261						Global Health Status/QoL	0.04	0.24	0.24
Watery eyes (S)	1	259						HRQOL Summary Score	0.17	0.006	0.06
Watery eyes (S)	2	236	ECOG PS 2-4	ECOG PS 0-1	0.07	0.75	0.10			0.62	0.77
Watery eyes (S)	2	234						Physical Functioning	0.24	<0.001	0.004
Watery eyes (S)	2	234						Role Functioning	0.13	0.049	0.24
Watery eyes (S)	2	234						Emotional Functioning	0.17	0.009	0.08
Watery eyes (S)	2	234						Cognitive Functioning	0.20	0.002	0.03
Watery eyes (S)	2	234						Social Functioning	0.16	0.02	0.13
Watery eyes (S)	2	234						Global Health Status/QoL	0.21	0.001	0.02
Watery eyes (S)	2	234						HRQOL Summary Score	0.20	0.002	0.02
Watery eyes (I)	1	268	ECOG PS 2-4	ECOG PS 0-1	0.13	0.65	0.20			0.26	0.61
Watery eyes (I)	1	265						Physical Functioning	0.14	0.02	0.18
Watery eyes (I)	1	265						Role Functioning	0.04	0.48	0.61
Watery eyes (I)	1	261						Emotional Functioning	0.19	0.002	0.03
Watery eyes (I)	1	261						Cognitive Functioning	0.10	0.1	0.61
Watery eyes (I)	1	261						Social Functioning	0.14	0.02	0.18
Watery eyes (I)	1	261						Global Health Status/QoL	0.09	0.16	0.61
Watery eyes (I)	1	259						HRQOL Summary Score	0.16	0.009	0.1
Watery eyes (I)	2	236	ECOG PS 2-4	ECOG PS 0-1	0.07	0.69	0.10			0.61	0.61
Watery eyes (I)	2	234						Physical Functioning	0.12	0.06	0.4
Watery eyes (I)	2	234						Role Functioning	0.08	0.22	0.61
Watery eyes (I)	2	234						Emotional Functioning	0.19	0.003	0.047
Watery eyes (I)	2	234						Cognitive Functioning	0.23	<0.001	0.006
Watery eyes (I)	2	234						Social Functioning	0.18	0.006	0.08
Watery eyes (I)	2	234						Global Health Status/QoL	0.15	0.02	0.18
Watery eyes (I)	2	234						HRQOL Summary Score	0.17	0.007	0.09
Wheezing (S)	1	455	ECOG PS 2-4	ECOG PS 0-1	0.33	0.69	0.48			<0.001	<0.001
Wheezing (S)	1	365	Lung/Head/Neck	Prostate/Bladder	0.17	0.71	0.24			0.05	0.1
Wheezing (S)	1	445						Physical Functioning	0.24	<0.001	<0.001
Wheezing (S)	1	445						Role Functioning	0.18	<0.001	0.001
Wheezing (S)	1	442						Emotional Functioning	0.27	<0.001	<0.001
Wheezing (S)	1	442						Cognitive Functioning	0.19	<0.001	<0.001

PRO-CTCAE Item	Visit	N	Worse Symptom Level Group	Better Symptom Level Group	Mean or Percent Difference	SD	Effect Size*	EORTC QLQ-C30	Pearson Correlation	Unadjusted P-value	Hochberg P-value
Wheezing (S)	1	442						Social Functioning	0.15	0.001	0.005
Wheezing (S)	1	442						Global Health Status/QoL	0.24	<0.001	<0.001
Wheezing (S)	1	439						HRQoL Summary Score	0.32	<0.001	<0.001
Wheezing (S)	2	405	ECOG PS 2-4	ECOG PS 0-1	0.27	0.63	0.44		.	0.004	0.01
Wheezing (S)	2	327	Lung/Head/Neck	Prostate/Bladder	0.03	0.68	0.05		.	0.71	0.71
Wheezing (S)	2	398						Physical Functioning	0.29	<0.001	<0.001
Wheezing (S)	2	398						Role Functioning	0.28	<0.001	<0.001
Wheezing (S)	2	395						Emotional Functioning	0.27	<0.001	<0.001
Wheezing (S)	2	395						Cognitive Functioning	0.33	<0.001	<0.001
Wheezing (S)	2	394						Social Functioning	0.17	<0.001	0.004
Wheezing (S)	2	395						Global Health Status/QoL	0.21	<0.001	<0.001
Wheezing (S)	2	391						HRQoL Summary Score	0.37	<0.001	<0.001

Abbreviations: PRO-CTCAE, Patient-Reported Outcomes version of the Common Terminology Criteria for Adverse Events; SD, Standard deviation; EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Core Quality of Life Questionnaire; F, Frequency; S, Severity; I, Interference with usual or daily activities; P, Presence/absence; A, Amount; ECOG PS, Eastern Cooperative Oncology Group Performance Status; QoL, Quality of Life; HRQoL, Health-related quality of life

* Cohen's *d* for group differences; Cohen's *h* for differences in proportions

** Not considered as evidence of validity because direction of effect is the opposite of that hypothesized

1 - Hand-foot syndrome-inducing chemotherapies include capecitabine, fluorouracil, sunitinib, and sorafenib

2 - Skin-reaction chemotherapies include epidermal growth factor receptor inhibitors, docetaxel, gemcitabine, paclitaxel, and pemetrexed

3 - Irritant chemotherapies include bleomycin, bortezomib, carboplatin, cyclophosphamide, cytarabine, dacarbazine, daunorubicin, docetaxel, doxorubicin, etoposide, gemtastabine, ifostamide, fluorouracil, gemtastabine, ifostamide, irinotecan, nab-paclitaxel, oxaliplatin, paclitaxel, topotecan, and trastuzumab

eTable 4. Test-retest Reliability for 49 Preselected PRO-CTCAE Items (N=80)

PRO-CTCAE Symptomatic AE Term	Intra-class Correlation Coefficient				
	Frequency	Severity	Interference	Presence	Amount
Anxiety	0.78	0.69	0.83	-	-
Arm/leg swelling	0.86	0.68	0.64	-	-
Constipation	-	0.83	-	-	-
Cough	-	0.74	0.53	-	-
Decreased appetite	-	0.80	0.80	-	-
Dry mouth	-	0.74	-	-	-
Fatigue	-	0.77	0.79	-	-
Feelings that nothing could cheer you up	0.70	0.75	0.72	-	-
Hair loss	-	-	-	-	0.96
Headache	0.80	0.78	0.78	-	-
Hiccups	0.69	0.71	-	-	-
Insomnia	-	0.64	0.72	-	-
Loose stools	0.54	-	-	-	-
Mouth or throat sores	-	0.82	0.81	-	-
Nausea	0.80	0.84	-	-	-
Numbness/tingling in your hands or feet	-	0.80	0.55	-	-
Pain	0.83	0.82	0.84	-	-
Problems with concentration	-	0.74	0.70	-	-
Problems with tasting food/drink	-	0.84	-	-	-
Rash	-	-	-	0.86	-
Sad or unhappy feelings	0.72	0.61	0.76	-	-
Shortness of breath	-	0.70	0.66	-	-
Skin burns from radiation	-	0.65	-	-	-
Unusual darkening of the skin	-	-	-	0.73	-
Vomiting	0.81	0.79	-	-	-
Wheezing		0.65			

Abbreviations: PRO-CTCAE, Patient-Reported Outcomes version of the Common Terminology Criteria for Adverse Events; AE, adverse event