

Online Appendix

Appendix 1. Symptom Severity by Group (N=4512)			
	High Symptom Burden (n=1399)	Low Symptom Burden (n=3113)	Effect Size (Cohen's <i>d</i>)
	Mean (95% CI)	Mean (95% CI)	
RSCL-M			
Tiredness	62.55 (61.12-63.98)	27.46 (26.72-28.20)	1.51
Lack of energy	61.06 (59.60-62.53)	24.47 (23.71-25.23)	1.54
Difficulty sleeping	49.74 (48.03-51.46)	20.52 (19.68-21.36)	1.08
Decreased sexual interest	47.31 (45.29-49.33)	26.77 (25.67-27.87)	0.61
Low back pain	42.13 (40.34-43.92)	17.97 (17.15-18.79)	0.89
Sore muscles	42.05 (40.39-43.70)	16.55 (15.81-17.29)	1.03
Pain (other than low back pain)	41.60 (39.85-43.35)	15.28 (14.52-16.04)	1.02
Shortness of breath	32.00 (30.37-33.63)	10.28 (9.61-10.95)	0.92
Tingling hands or feet	30.90 (29.17-32.63)	12.21 (11.45-12.97)	0.72
Weight gain	29.63 (27.82-31.44)	17.09 (16.25-17.93)	0.45
Heartburn/belching	27.31 (25.74-28.89)	11.36 (10.69-12.03)	0.70
Dry mouth	27.31 (25.72-28.90)	9.38 (8.73-10.03)	0.79
Problems controlling your urine	26.05 (24.42-27.68)	13.85 (13.11-14.59)	0.49
Headaches	25.55 (24.05-27.04)	7.34 (6.79-7.89)	0.89
Constipation	23.65 (22.06-25.25)	9.21 (8.56-9.86)	0.63
Coughing	23.45 (21.95-24.95)	8.59 (7.96-9.22)	0.68
Abdominal aches	22.01(20.56-23.47)	5.95 (5.46-6.44)	0.83
Lack of appetite	19.46 (17.99-20.93)	3.83 (3.42-4.24)	0.85
Dizziness	19.11 (17.83-20.39)	4.24 (3.83-4.65)	0.89
Loss of hair	18.87 (17.20-20.54)	5.57 (4.96-6.18)	0.58
Swelling of arms or legs	18.31 (16.85-19.76)	5.60 (5.09-6.11)	0.65
Skin irritation	18.19 (16.78-19.60)	6.46 (5.91-7.01)	0.59
Diarrhea	18.00 (16.59-19.41)	5.93 (5.42-6.44)	0.62
Problems controlling your bowels	17.52 (16.06-18.98)	5.52 (5.01-6.03)	0.61
Burning/sore eyes	16.69 (15.44-17.93)	4.75 (4.30-5.20)	0.70
Nausea	15.32 (14.03-16.61)	1.99 (1.70-2.28)	0.86
Shivering	13.56 (12.37-14.76)	2.28 (1.97-2.59)	0.77
Weight loss	11.62 (10.40-12.84)	2.98 (2.61-3.35)	0.55
Sore mouth/pain when swallowing	9.77 (8.70-10.83)	1.52 (1.25-1.79)	0.64

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Vomiting	7.36 (6.33-8.39)	0.57 (0.41-0.73)	0.59
POMS-37			
Vigorous ^a	82.93 (81.77-84.09)	58.41 (57.43-59.39)	0.93
Full of pep ^a	81.91 (80.72-83.10)	51.86 (50.94-52.78)	1.19
Energetic ^a	76.05 (74.88-77.22)	47.65 (46.79-48.51)	1.19
Lively ^a	70.27 (69.07-71.47)	43.24 (42.42-44.06)	1.16
Active ^a	64.58 (63.31-65.85)	38.46 (37.64-39.28)	1.11
Fatigued	62.51 (61.17-63.85)	27.20 (26.49-27.91)	1.62
Worn-out	62.20 (60.84-63.57)	25.95 (25.24-26.66)	1.64
Cheerful ^a	60.79 (59.62-61.97)	35.12 (34.36-35.88)	1.17
Exhausted	57.29 (55.82-58.77)	20.75 (20.06-21.44)	1.61
Bushed	52.45 (50.95-53.94)	19.27 (18.60-19.94)	1.48
Weary	48.55 (47.15-49.96)	16.71 (16.08-17.34)	1.51
Uncertain about things	44.98 (43.55-46.40)	16.66 (16.03-17.29)	1.34
Tense	44.47 (43.05-45.88)	17.41 (16.80-18.02)	1.30
Sad	43.91 (42.50-45.32)	12.27 (11.76-12.78)	1.64
Unhappy	43.49 (42.20-44.79)	14.96 (14.39-15.53)	1.48
Restless	43.05 (41.71-44.38)	15.75 (15.16-16.34)	1.36
Discouraged	41.47 (40.04-42.91)	8.87 (8.40-9.34)	1.72
Blue	40.97 (39.57-42.37)	9.99 (9.50-10.48)	1.65
Nervous	40.64 (39.17-42.11)	12.29 (11.74-12.84)	1.40
Forgetful	40.03 (38.62-41.45)	20.29 (19.62-20.96)	0.91
Anxious	39.89 (38.47-41.31)	15.41 (14.76-16.06)	1.15
On edge	39.66 (38.29-41.04)	11.26 (10.73-11.79)	1.49
Annoyed	37.97 (36.63-39.30)	13.04 (12.51-13.57)	1.32
Grouchy	35.86 (34.51-37.21)	13.02 (12.49-13.55)	1.20
Unable to concentrate	35.70 (34.37-37.03)	11.49 (10.88-12.10)	1.20
Uneasy	33.92 (32.61-35.23)	8.29 (7.84-8.74)	1.45
Angry	33.89 (32.49-35.28)	10.87 (10.36-11.38)	1.19
Peeved	30.96 (29.60-32.32)	9.09 (8.60-9.58)	1.19
Miserable	30.79 (29.34-32.24)	3.07 (2.76-3.38)	1.62
Confused	28.98 (27.58-30.38)	6.21 (5.74-6.68)	1.23
Helpless	28.81 (27.33-30.29)	3.73 (3.38-4.08)	1.40
Hopeless	26.32 (24.85-27.78)	2.24 (1.97-2.51)	1.42

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Resentful	26.15 (24.74-27.57)	4.91 (4.50-5.32)	1.19
Worthless	23.72 (22.20-25.24)	1.91 (1.64-2.18)	1.26
Bewildered	23.33 (22.05-24.60)	3.34 (3.01-3.67)	1.27
Bitter	23.33 (21.87-24.79)	2.65 (2.36-2.94)	1.21
Furious	18.92 (17.55-20.29)	2.06 (1.81-2.31)	1.07

CI indicates confidence interval; RSCL-M, Modified Rotterdam Checklist; POMS-37, short form of the Profile of Mood States.

^a Reverse scored.

Appendix 2. Composite Scores of RSCL-M Factors and POMS-37 Subscales in Cancer Survivors with High Symptom Burden (Mean (SD))

RSCL-M Factors	Total (n=1399)	Chemotherapy		Radiotherapy	
		Completed (n=523)	Active (n=212)	Completed (n=460)	Active (n=137)
Fatigue	61.81 (26.40)	64.96 (26.18)	66.12 (25.88)	63.97 (23.35)	64.36 (28.16)
Pain	40.21 (21.86)	41.60 (22.30)	39.15 (21.36)	39.17 (21.23)	43.06 (23.00)
Lung symptoms	27.73 (25.12)	27.08 (25.25)	30.90 (26.72)	27.68 (25.94)	32.97 (25.04)
Weight change	20.24 (16.20)	21.64 (15.96)	22.48 (18.00)	21.31 (16.73)	23.56 (17.91)
Treatment-related symptoms	19.89 (14.80)	22.67 (15.41)	21.33 (15.67)	20.41 (14.45)	24.33 (17.45)
Bowel/bladder control problems	19.18 (20.95)	19.22 (21.13)	23.72 (23.09)	18.47 (21.40)	24.17 (23.49)
Nausea	11.34 (20.12)	11.81 (20.02)	17.22 (26.33) ^a	11.02 (19.57)	14.12 (22.96)
POMS-37 Subscales					
Vigor	72.76 (16.34)	72.17 (17.04)	74.90 (15.67)	72.28 (16.57)	71.20 (17.84)
Fatigue	56.60 (22.21)	57.73 (23.05)	58.74 (20.78)	56.76 (21.78)	57.25 (23.33)
Tension	40.27 (20.26)	38.95 (19.96)	38.40 (21.24)	37.80 (19.42)	41.13 (21.60)
Depression	34.94 (20.93)	33.47 (21.27)	34.33 (20.78)	32.86 (20.22)	33.93 (21.27)
Confusion	34.60 (18.60)	35.50 (19.27)	33.36 (18.88)	32.92 (18.15)	34.76 (19.14)
Anger	29.58 (20.57)	28.61 (20.64)	26.84 (20.19)	27.39 (19.64)	29.04 (21.77)

RSCL-M indicates Modified Rotterdam Checklist; POMS-37, short form of the Profile of Mood States; SD, standard deviation.

^a Significant at $P = .005$, after controlling for demographic, socioeconomic, and disease characteristics.