REHABILITATION AND SURVIVORSHIP

ABSTRACT

Introduction

A growing number of psychosocial interventions are being offered to cancer patients during and after their medical treatment. Here, we examined whether Mindfulness-Based Stress Reductions(R), a stress management course, helps women to cope better with stress and illness once their breast cancer treatment is completed. Our aim was to understand INDIGINAL MARKER MAY

with 4 variables in the model at an alpha level of 0.05 and a power of 0.80.

2.3 Intervention: MBSR Program

The MBSR program (described in Kabat–Ziñ)nwas provided by the same instructor (PLD) to 5 different groups of 10–15 women per group, who met weekly for 2.5-hour classes over 8 consecutive weeks to learn mindfulness meditation and stress manage ment techniques. Patients received a home practice manual and 4 compact discs created by the instructor to teach these meditation practices: body scan, sitting meditation, hatha yoga, and meditation involving visual imagery. The structured classes progressively taught means of coping with stress through meditation practice and dialogue about the practice in and

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PHDVXUHV VKRZHG VLJQL; FDQ Wijedfsukrebs Qfubliettrac@solnlefoldinhtplinichetaspebbl,0.W0041)U correction for multiple testing (Bonferroni correction emotional coping (decreased 0.0001); and mind ZLWK DQG 0.0042): depressive symptoms (0.0001), perceived stressp < 0.0001), and medical symptonps < (0.0001).

TABLE I Participant (1 = 59) demographics

Variable	Value
Age (years)	
Mean	56.4±10.2
Range	28-79
Time since completion of	
breast cancer treatment (months)	
Mean	28.9±58.8
Range	2-340
Years of educatiom[(%)]	
High school leaving	7 (11.9)
College degree	13 (22.8)
Undergraduate degree	26 (44.1)
Master's degree	9 (15.3)
Doctorate	4 (6.8)
Cancer stagen[(%)]	
Stage 0	2 (3.4)
Stage 1	17 (28.8),
Stage 2	20 (33.9).
Stage 3	2 (3.4)
Stage 4	6 (10.2)
Unknown	12 (20.3)

WHVWV \ LpH=O G flelln@essD cofmingrelheldrHsitFillNW,Hm@aningfulness, and total sense of coherence (all increasedpall0.0001).

&RUUHODWLRQ FRHI;FLHQWV ZH 6LJQL;FDQW FKDQJHV ZHUH DODNAYtRe alsRoxcQtt@nsLbQttw&nkusHchashgleRsEdnebyahd the changes in process and outcome variable from preto postmbsr. Using the Bonferroni approach to control for type1 error across the 36 correlations, value of OHVV WKDQ ZDV UHTXLUHG I

> The results of the correlation analyses revealed VHYHUDO VWDWLVWLFDOO\- VLJQL ble...). Most notably, increases in mindfulness scores were related to reductions in stress < 0.0001), depressionp(< 0.0001), and emotional coping € 0.0001) and to increases in total sense of coherence (p < 0.0001).

Hierarchical regression was then performed to predict the main outcomedschange score) using 2 process variables. As shown in Tablethe results of the hierarchical linear regression analyses, with age and time since completion of treatment forced into the model as covariates, revealed that neither of these potential confounders predicted a reduction in stress $F_{2.56}$ = 0.814,p = 0.449. However, when, in the next step, the model included the change score and the soc total change score, the model reached VLJQL; FDQFH DFFRXQWLQJ IRU variance in the prediction of the change in stress: $F_{4.56} = 11.858 p < 0.0001.$

4. DISCUSSION

\$V RFFXUUHG LQ VWXGLHV SHUWI MBSR for patients with other types of chronic illness

TABLE II Impact of the Mindfulness-Based Stress Reduction program on outcome and process measures (

Variable	Mear	Difference	d	t	р	
	Pre-program	Post-program		Value	Value	Value
Outcome measures						
Depression	16.30±9.91	10.26±7.56	6.04	0.57	4.25	0.0001
Perceived stress	17.95±6.05	14.07±6.17	3.88	0.64	4.83	0.0001
Medical symptoms	19.77±12.08	11.96±7.99	7.80	0.77	5.46	0.0001
Process measures						
Mindful awareness	3.91±0.82	4.35±0.68	0.44	-0.77	-5.59	0.0001
Distraction coping	26.23±5.49	28.25±5.75	2.02	-0.47	-3.51	0.001
Palliative coping	23.72±4.39	24.25±3.94	0.53	-0.14	-1.08	0.286
Instrumental coping	33.68±5.07	33.21±5.67	0.47	0.13	1.00	0.320
Emotional coping	22.91±7.07	19.84±6.66	3.07	0.54	4.07	0.0001
Comprehensibility	42.74±8.89	46.67±6.80	3.93	-0.54	-3.96	0.0001
Manageability	47.89±7.80	49.67±6.19	1.77	-0.27	-1.96	0.055
Meaningfulness	42.93±7.32	46.18±6.72	3.25	-0.62	-4.62	0.0001
Sense of coherence (total)	133.56±19.61	142.51±15.08	8.95	-0.52	-4.51	0.0001

[%] RQIHUURQL Fi,RZJKUHHJFHWLR2622 Tm (0.0001)Tj ET EMC /Span <0046csEFFv020628 87.3859,

patients discharged from medical treatments | PD\; OO D KHDOWK VHUYLFH JDS SRVVLEO\ DOORZLQJ WKHVH SDWLHQWV WR OHDUQ WR QDYLJDWH DQG VWD\ DARDW LQ ZKD\ may seem to be the large and small waves of their transformed lives.

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