

Background

Family caregivers of people with cancer face distress that can impact the patient and their own well-being.

A Global Network of Education and Hope

- While validated distress screening for patients is essential for quality care, there is an absence of validated measures to identify and address unmet psychosocial needs of caregivers.
- We developed CancerSupportSource®-Caregiver (CSS-CG), a novel distress screening tool for cancer caregivers, that is based on our web-based distress screening and referral tool for people with cancer (CSS-Patient).

Aims

• The objective of this study was to refine the newlydeveloped 47-item CSS-CG using a multimodal approach.

Methods

- 246 family caregivers from 10 CSC affiliates rated distress on 47 items across 3 domains: emotional concerns/self-care (27 items), caregiving tasks (11 items), and patient well-being (9 items). They also indicated interest in talking to someone about each concerns
- We completed an exploratory factor analysis (EFA), item discrimination index (IDI) and test-retest analyses, and multiple iterations of expert review to reduce and refine the number of items in CSS-CG.

Participants

This work is sponsored by Amgen.

<i>N</i> = 246	n	%
Mean Age (SD)		(14) 22 – 83
Non-Hispanic White	204	88%
Female	165	68%
Cancer recipient relationship to caregiver		
Spouse/partner	141	58%
Parent/in-law	51	21%
Child	29	12%
Hours of care provided weekly		
≤20	152	63%
21-80	57	24%
Care recipient received active treatment in past two years	199	82%
Acknowledgments Refere	nces	

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Refining a Validated Distress Screening Tool of Caregivers of Cancer Patients in a Community-Based Sample

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Results

Performance of 47 CSS-CG items

ltem	F1	F2	F3	F4	IDI	% Concern	% Talk	Test- Retest	Action
EMOTIONAL WELL-BEING									
Feeling irritable	.738				.696	48%	29%	0.65	Combine
Feeling sad or depressed	.681				.846	50%	53%	0.77	Retain
Feeling lonely or isolated	.645				.600	30%	43%	0.67	Retain
Feeling angry or resentful	.626				.554	27%	48%	0.68	Combine
Feeling unappreciated	.589				.372	26%	48%	0.83	Drop
Changes or disruptions in home life	.577				.759	59%	39%	0.57	Combine
Relationship problems with the person for whom I am caring	.573				.509	29%	52%	0.73	Reword
Worrying about the future and what lies ahead	.571				.685	71%	38%	0.77	Retain
Feeling that I'm always "on"	.561	.313			.737	41%	34%	0.68	Drop
Feeling nervous or afraid	.560	.010			.695	42%	51%	0.75	Retain
Balancing competing demands	.487	.378			.815	44%	45%	0.78	Combine
		.570							
Maintaining or improving my social connections	.469				.558	38%	29%	0.71	Drop
Feeling guilty	.410				.601	30%	45%	0.74	Retain
Feeling too tired to do the things I need or want to do	.398				.679	46%	39%	0.70	Retain
Intimacy, sexual function, and/or fertility	.382				.357	27%	26%	0.89	Reword
Finding meaning and purpose in life	.375				.554	26%	33%	0.87	Replace
Tobacco, alcohol or other substance use	.369				.139	6%	67%	0.79	Retain
My financial well-being	.359	.322			.636	44%	23%	0.89	Drop
Worry about family, children and/or friends	.352				.664	42%	34%	0.68	Drop
Sleep problems	.327				.478	35%	36%	0.82	Drop
Maintaining appearances or keeping it all together in front of others	.306				.648	40%	35%	0.62	Drop
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Getting or arranging medical care		.683			.539	23%	46%	0.74	Reword
Providing transportation to treatment and appointments Managing health insurance and medical bills		.681 .652			.385	16%	39%	0.80	Retain
Talking with the patient's doctors and health care team		.594			.643 .586	33% 32%	33% 13%	0.77 0.73	Retain Retain
Making a treatment decision		.569			.632	34%	47%	0.80	Reword
Managing money		.546			.709	34%	23%	0.75	Reword
Talking with or updating family and friends		.526			.570	24%	32%	0.77	Reword
Managing household or family activities (cleaning, yard work,		.463							Combine
cooking, child care, etc.)					.786	42%	40%	0.68	
Changes or disruptions in work or school		.432			.684	34%	27%	0.78	Combine
Managing care at-home (e.g., medications, bandage/dressing changes, feeding tubes, etc.)		.385	.318		.500	24%	36%	0.83	Reword
The patient's tobacco, alcohol or other substance use		.190			.154	8%	0%	0.91	Drop
PATIENT WELL-BEING			0.40		000	500/	0.40/	0.77	D
The patient's pain and/or physical discomfort			.840		.666	59%	34%	0.77	Reword
The patient's weight change (gain or loss)			.748		.556	35%	37%	0.87	Drop
Changes in the patient's physical activity and movement			.672 .654		.698	49% 37%	37% 32%	0.76	Drop Retain
The patient's sleep problems The patient's eating and nutrition			.602		.467 .528	57%	30%	0.81 0.76	Retain
Managing side effects of treatment (nausea, swelling, etc.)			.592		.651	46%	38%	0.69	Reword
Changes in the patient's mood and/or behavior	.325		.468		.757	40 <i>%</i>	53%	0.09	Reword
Changes in the patient's memory and/or thinking	.020		.427		.605	44%	37%	0.77	Reword
The patient's feelings of loneliness or isolation			.408		.608	54%	39%	0.80	Drop
Gaining information about how to provide care (i.e., physical		.342	.385		.753	40%	53%	0.68	Reword
care, emotional support, etc.)									
SELF-CARE				767	500	100/	100/	0.70	Datain
Eating and nutrition Exercising and being physically active				.767	.530	48%	13%	0.73	Retain
Exercising and being physically active				.761	.455	54% 20%	14%	0.81	Retain
Talking with my doctors/health care team about my health Keeping up with my own health care needs				.759	.464	29% 36%	41% 32%	0.77	Drop
Keeping up with my own health care needs Pain and/or physical discomfort				.737	.587	36%	32%	0.74	Retain
				.478	.323	18%	24%	0.76	Drop

very seriously concerned"; % Talk = % of caregivers who endorsed item as "somewhat to very seriously concerned" and requested to class correlation coefficients (ICC's).

Miller et al. (2014). Discriminatory power of a 25-item distress screening tool: A cross-sectional survey of 251 cancer survivors. Qual Life Res, 23(10): 2855-63. 2. Stenberg U., Ruland C.M., & Miaskowski C. (2010), Review of the literature on the effects of caring for a patient with cancer. *Psycho-Oncology*, 19:1013–25.

Summary of Scale Refinement

Implications and Conclusions

- providers.

Exploratory factor analysis and thematic review suggested that caregiver distress items are distributed across four factors: 1) Emotional Well-Being, 2) Caregiving Tasks, 3) Patient Well-Being, and 4) Self-Care.

• Items with high discrimination included feeling sad or depressed, balancing competing demands, managing household or family activities (cleaning, yard work, cooking, child care, etc.), changes or disruptions in home life, and changes in the patient's mood and/or behavior.

• Items that were conceptually similar to each other have been combined in the reduced scale, or the item with stronger psychometric performance was retained.

• Items that loaded on multiple factors, had low item discrimination indices, or had poorer test-retest performance have been combined, reworded, or dropped to enhance clarity.

 Items with mixed psychometric performance but clinical significance for risk assessment (e.g., tobacco, alcohol or other substance use) were retained. We propose re-evaluating item performance as part of the reduced scale.

• The refined and reduced scale, including combined and revised items, includes a total of 31-items.

• These findings provide a useful framework for generating a reliable and sustainable screening tool, CancerSupportSource-Caregiver, to evaluate psychosocial distress among cancer caregivers across a large network of community-based care

• Based on these analyses and multiple iterations of expert review, the scale has been reduced to 31 items, including a previously-validated 4-item depression subscale that mirrors the patient version of CancerSupportSource.

• Next steps include validation of the reduced scale, developing appropriate educational materials, implementing the CSS-Caregiver distress screening tool within the same digital platform as CSS-Patient, and exploring the impact of caregiver distress screening, referral, and follow-up on health-related quality of life and cost outcomes.

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