

Predictors of Distress Associated with Problems with Sexual Function among Breast Cancer Survivors: Findings from an Online, Community-based Registry

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Introduction

- Cancer Support Community (CSC) is an international nonprofit dedicated to ensuring that all people impacted by cancer are empowered by knowledge, strengthened by action, and sustained by community
- CSC develops and delivers a comprehensive menu of free, personalized support and education services to all people affected by cancer
- CSC created a series of questions focused on key areas identified in the seminal report, "Cancer Care for the Whole Patient" (IOM, 2007).
- Key questions were included related to the survivor experience around distress and sexual function



- The Cancer Survivor Registry: the Breast Cancer M.A.P. (Mind Affects the Physical) Project has three main goals:
- To better understand and meet the ongoing social and emotional needs of breast cancer survivors
- To develop and disseminate effective programs resulting in improved long-term quality of life
- 3. To provide a vehicle for these survivor voices to be heard and positively impact health care policy through advocacy
- · Sexual Dysfunction
- Sexual function problems are prevalent among breast cancer survivors and negatively impact quality of life (Krychman, 2008)
- Research suggests that poor sexual function is associated with negative health outcomes and quality of life

To download the Index, please visit:

www.cancersupportcommunity.org/BreastCancerMAP

To join the Cancer Survivor Registry, please visit:

https://csc.breastcancerregistry.org/

Objectives/Purpose

- Identify predictors of distress associated with sexual dysfunction
- Identify subgroups at high risk for distress related to sexual dysfunction
- Evaluate the need for distress screening associated with sexual dysfunction

Sample Characteristics (n=972)

Characteristic	Proportion
Sex	
-Female	99%
Race	
-Caucasian	88%
-African American	6%
Education	
-Bachelors and above	76%
Comorbidities	
-At least one	76%
Tumors diagnosed	
-Stage II and up	58%
-Stage III and up	20%
	Average
Age	55
Years since diagnosis	4

Results

Figure 1.1

Distribution of Sexual Function Problem Ratings

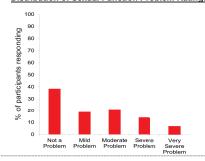


Figure 1.2 Predictors of Distress Associated with Sexual Dysfunction

	Odds Ratio	95-Confidence Interval
Age	.96	.9598
Chemo	1.86	1.24 - 2.79
Depression	2.79	1.95 - 4.00
Hormone Rec. +	2.12	1.35 - 3.34
White	2.02	1.05 - 3.87

Summary of Results

- Participants with depression were nearly three times more likely than those without depression to rate sexual function as a severe or very severe problem (OR=2.80; p<0.001)
- Those who self-identified as non-Hispanic white were 2 times more likely than non-white racial groups to report sexual function as a severe or very severe problem (OR=2.03; 95 percent Cl=1.06, 3.88; p=0.033)
- The odds of rating sexual function as a severe or very severe problem were two times greater among
 those who were hormone-receptor positive compared to negative (OR=2.13; p=0.001) and 86%
 greater among those who received chemotherapy compared to those who did not (OR=1.86; p=0.003)
- · Note: 21% of breast cancer survivors indicated sexual function was a severe or very severe problem

Methods

- Nearly 3,000 breast cancer survivors have joined the Breast Cancer M.A.P. Project, an online registry designed to examine the psychosocial impact of breast cancer
- In October 2010, registrants were emailed and asked to log into their M.A.P. Project account and answer study specific questions about:
 - Distress related to their cancer experience
- · Demographic information
- · Medical history information
- A total of 972 answered question the question regarding sexual function (not a problem to very severe problem)
- Those who answered sexual function item were an average of 4 years younger than those who did not answer the item (p=0.002)

Implications

- Younger age, race, depression and treatment related variables predict higher levels of distress among breast cancer survivors
- Cancer related distress is associated with sexual dysfunction well beyond treatment for breast cancer, extending into survivorship
- These data highlight the need for all survivors throughout the survivorship continuum to be screened for distress-related problems with sexual function and provided appropriated referrals and follow-up
- Sexual dysfunction is a complex problem that can be addressed with a variety of intervention types:
- education and lifestyle changes, sexual counseling, sexual aids, medications, and dietary supplements

Future Directions

- · Research needs to focus on:
- Sub-groups at high risk for distress related to sexual function
- The needs of various ethnic, geographic and culturally diverse populations
- Impact of distress screening on quality of life, health, and cost outcomes
- Screening for distress related sexual dysfunction that is more culturally sensitive and inclusive
- Programs around sexual function and cancer need to be made available in the community

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Problem-related distress and quality of life in cancer survivors participating in a community-based screening program

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PURPOSE: As part of an initiative to validate a distress screening tool, the purpose of this analysis was to identify the sources of distress that have the greatest impact on quality of life(QOL).

METHODS: A cross-sectional group of 319 survivors (84% female; 83% white) of mixed cancer diagnosis (45% breast) who participated in a screening study at 14 community-based affiliates of the Cancer Support Community completed the Functional Assessment of Cancer Therapy-General version (FACT-G) scale and the Cancer Support Community Screener (CSCS), a validated distress screening tool that asks participants to rate the severity of 36 problem-related distress items.

RESULTS: Findings from regression analysis showed eight items were significantly associated with QOL (adjusted R2=0.64; n=284): feeling down or depressed (p=0.002), worry about the future (p<0.001), needing practical help at home (p=0.003), fatigue (p<0.001), physical appearance (p=0.023), sleeping (p<0.001), finding meaning or purpose in my life (p<0.001), and feeling unsupported by my partner (p=0.001). Fatigue (p<0.001), pain (p<0.001), side-effects of treatments (p<0.001), needing practical help at home (p=0.004), and finding community resources near where I live (p=0.012) were significantly associated with physical well-being (adjusted R2=0.63; n=294). Four items predicted social/family well-being (adjusted R2=0.38; n=295): feeling isolated, alone or abandoned (p<0.001); talking with family, children and friends (p<0.001); feeling unsupported by my partner (p<0.001); and finding meaning or purpose in my life (p=0.003). Six items predicted emotional well-being (adjusted R2=0.62; n=295): feeling anxious or fearful (p<0.001); worry about the future (p<0.001); feeling down or depressed (p<0.001); questions and fear about end of life (p<0.001); weight gain or loss (p=0.022); and physical appearance (p=0.048). Finally, worry about the future (p=0.004), fatigue (p<0.001), finding meaning or purpose in my life (p<0.001), sleeping (p<0.001), and needing practical help at home (p=0.062) were significantly associated with functional well-being (adjusted R2=0.44; n=303).

CONCLUSIONS: The CSCS can be used to screen for problems related to key components of QOL.

RESEARCH IMPLICATIONS: The CSCS can be used to assess QOL over time among patients being treated in community settings. Future efforts are needed to demonstrate the feasibility of screening in the community.

CLINICAL IMPLICATIONS: These data can be used to inform programs, referrals and resources designed to reduce distress and improve QOL for cancer patients in the community.

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