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Peer support for people with advanced cancer: a systematically constructed scoping review of quantitative and qualitative evidence --Manuscript Draft--

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Peer support for people with advanced cancer: a systematically constructed scoping review of quantitative and qualitative evidence

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Abstract

Purpose of review: The number of people living with advanced cancer is increasing, and appropriate support to this population is essential. Peer support is increasingly advocated as a component of care, but little is known about how to provide this in the context of advanced cancer. This review describes the experience and impact of different forms of peer support for people with advanced cancer.

Recent findings: Data from 22 papers were reviewed, primarily descriptive studies. They describe three forms of peer support (one-to-one, group and online), reaching primarily those who are female, middle aged and well educated. Only two studies focused on support to people with advanced cancer, but those with advanced cancer were frequent users of all forms of peer support. Benefits of peer support were described, but no data were presented to allow a determination of the best form of support for people with advanced cancer.

Summary: Practitioners can be assured that peer support is likely to be beneficial, and provide care that complements that of clinicians. However there is a need for a comprehensive programme of high quality evaluative research of peer support for people with advanced cancer.

Key words: Advanced cancer, peer support, peer group, volunteer, palliative care

Introduction

The number of people living with and beyond cancer increases by 3.2% each year (1). Whilst some remain disease free, a proportion are living with, and dying from, advanced cancer. One model estimates that there are around 3-4 metastatic breast cancer cases for every breast cancer death(2). It is therefore critically important that services not only support excellence in diagnosis and treatment, but also provide effective and appropriate support for a prolonged period of time, designed to meet the needs of those with advanced cancer (3).

Clinical services are unlikely to meet all the needs of those with advanced cancer. This may be because of their capacity to provide care, or because needs may be best met outside formal healthcare systems. Compassionate support cannot be the responsibility only of health and social care professionals, and wider support, including from peers and the community, may be important (4, 5). Social networks and social capital are important contributors to health (6, 7), buffering the effects of crisis, providing a framework that may prevent burn out, and demonstrating the importance of supportive social contexts (8-10).

One form of support that may have merit is that provided by peers. Peer support involves people drawing on shared personal experience to provide knowledge, social interaction, emotional assistance or practical help, often in a way that is mutually beneficial (11). Peer support is different because the source of support is a similar person with relevant experience, and health policy recognizes the importance of such support (12).

Peer support, within a health care context is:

'The provision of emotional, appraisal, and informational assistance by a created social network member who possesses experiential knowledge of a specific behaviour or stressor and similar characteristics as the target population, to address a health-related issue of a potentially or actually stressed focal person' Dennis 2003 (13)p329.

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Peer support is a specific form of supportive relationship, distinctive from 'embedded' social networks (such as family members, friends, co-workers or neighbours). Peer support is a 'created' social network, provided with a range of professional support and involvement ranging from self-help groups with little outside involvement to 'paraprofessionals' who may have extensive training for their peer support role (13). Figure 1 presents conceptual distinctions of different forms of peer support and the effect models and proposed outcomes of peer support.

<Insert Figure 1 around here>

The mechanisms of effect of peer support are theorised to be either direct (direct effect on health outcomes through e.g. decreasing feelings of isolation), buffered (e.g. through reframing threat appraisals and improving coping responses (14), or through mediating (e.g. indirectly influencing health through emotions, cognitions, and behaviours (15).

Previous reviews of peer support for people with cancer are summarised in table 1.

< Insert table 1 around here>

Some focus on describing peer support, providing taxonomies or models of types of support (16, 18), others on outcomes generally (17), or of the effect of specific forms of peer support such as one-to-one support (19, 20) or social media/online support (21, 22). All identify satisfaction with models of peer support from those who receive it, but with criticisms of the descriptive focus of some studies, and methodological weaknesses in the literature.

What none of these reviews offer is an appraisal of peer support for people with advanced cancer. The needs of those with advanced cancer are distinct (3), and there may be differences in their desire for, experience, and impact of different forms of peer support. There is a need for an up to date review that addresses the experience and impact of different forms of peer support for people with advanced cancer.

Methods

This is a scoping review which enables literature to be mapped whilst addressing a broad question. This approach allows overview, identification and mapping of key concepts rather than synthesis of evidence. A formal assessment of methodological quality of included studies is usually not performed (23, 24).

Review question

What is the experience and impact of different forms of peer support for people with advanced cancer?

Inclusion and exclusion criteria

The key concept is the provision of any form of peer support (13), for people with a diagnosis of advanced cancer. This can be in any setting or geographical location. This concept and context guided our inclusion and exclusion criteria (table 2):

<Include table 2 around here>

Search strategy

Key terms from existing reviews of peer support were used to combine terms for 'peer support' with terms for 'cancer' (Table 3). Citation tracking of key papers in existing reviews was also used, and from a recent broad report on peer support across a number of disease areas (11). Databases searched include PubMed and Cochrane Databases(11).

<Insert table 3 around here>

The process of searching for papers and determining exclusion and inclusion is detailed in figure 2.

<Insert figure 2 around here>

Data extraction

Data were extracted and charted to describe and summarise information relevant to the question, concept and context of the scoping review.

Findings

Twenty two papers were included in this review, two were from the same project. The studies are summarised in table 4.

<Insert table 4 around here>

Studies came from the US (n=8), Canada (n=2), Australia (n=2), Netherlands (n=2) and one each from Norway, Denmark, Finland, Germany, Hungary, Ireland and the UK. Study designs included qualitative (n=8), cross-sectional surveys (n=8), pre-post surveys (n=1), comparative design (n=1) and different forms of trial design (n=4). Only two studies exclusively explored peer support for people with advanced cancer (35, 45), others included people with advanced cancer alongside those at other stages of disease. Themes presented here include the type of peer support, who participates in peer support, and the benefits or risks of peer support.

Type of peer support

Studies investigated three types of peer support: one-to-one support (n=5), group support (n=6), and online support (n=9). One paper compared group support offered either face-to-face or online. No studies compared different types of peer support, so it is not possible to conclude if one form of support is more effective.

Who participates in peer support programmes?

Peer support programmes typically report reaching out to people in middle age, female, and who are well educated. The mean ages of those receiving support, where reported, ranged from 48-62. Some studies only investigated peer support for those with specific diagnoses, often a gendered diagnosis, typically breast cancer (n=11), but also gynaecological cancer (n=1), or prostate cancer (n=1). Two studies only included those with lung cancer; five studies included those with any cancer diagnosis. Of the studies that included those with any diagnosis, most participants were nevertheless female. A study of a Peer Connect programme found that of their 'guides' 66% were female, and their 'partners' were 84% female (28). A similar pattern was found in a social network intervention with 77% female participants (38), and 78% of users of an online lung cancer support community were female (39). Study participants were typically well educated. One study of online social support found that most had a polytechnic or college degree (39%), and nearly one in four (24%) had a university degree (43), while a study of one-to-one peer support found that 51% had a college degree(29).

All studies reviewed have some participants with advanced cancer, but not exclusively so. Only two studies solely examined support for those with advanced cancer (35, 45), but others identified that people with advanced cancer were frequent users of all forms of peer support. A study of a Patient Survivor Advocacy programme found that over 90% of both advocates and patients had invasive cancer (26), the Woman to Woman programme had 19% of women with stage IV ovarian cancer(29), a belly dancing support group had 31% with metastatic disease(31), and 25% of participants in a trial of the Health-Space online intervention had late stage cancer(38).

What are the benefits or risks of peer support?

Most studies were descriptive cross-sectional studies, typically using a qualitative interview or survey design. Satisfaction with peer support was high (26), no risks were identified. Multiple benefits are described, mostly characterised as emotional or informational support.

Emotional support included conveying hope and ways of coping(25, 29), reducing loneliness(27), and improving self-esteem(34). Peer support helps people communicate with partners and family members(29). Depressive symptoms and distress were reduced through group support (30, 33), but a trial of online support found no difference in depressive symptoms(44). A trial of an online support group for women with metastatic breast cancer showed a trend to distress reduction(45). How people interacted was important, with humour important to conveying trust(37). Those who were highly active online, but who managed their emotions less actively, had increased emotional wellbeing (40). Informational support was also important (31), including health information and navigation(34). Informational needs were particularly noted by users of online support groups (39, 42, 43). However one study comparing online and face to face groups concluded that face to face groups were better for exchanging information and caring for others (46).

Socially, peer support was seen as providing a framework for social comparisons (25), where exchanging thoughts was easier with a peer(27), and with a need for mutual identification(36). Being a peer supporter was felt to be positive and important, giving people a sense of achievement (25, 26). Studies with a specific intervention (such as motivational interviewing), found that peers developed proficiency in the intervention (28).

Discussion

Summary

This review describes a range of studies that investigate different forms of peer support used by people with advanced cancer. Three main forms of peer support are one-to-one support, group support or online support. Those who use peer support, or participate in studies of peer support, are

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typically female, younger, and well educated. Peer support is well received, with people reporting a range of benefits centred on emotional and informational support, however there are few robust trials or other experimental studies. No risks from peer support were identified. Few studies specifically study peer support for those with advanced cancer, but people with advanced cancer are frequent users of peer support.

Comparison with previous reviews

Past reviews of peer support have been critical of this field of research, identifying issues with a focus on breast cancer, lack of theory, poor or absent specification of peer support interventions, and the lack of robust, high quality comparative studies such as trials (18-20). These issues, broadly, remain. A large proportion of studies reviewed focus attention on those with breast cancer (26, 30, 32-34, 36, 37, 42). Whilst people with breast cancer require support, especially those with advanced cancer (47), so too do people with other diagnoses. Studies reviewed are mostly not underpinned by any form of theory, a trend also identified in a recent review of behavioural theories in end-of-life care research(48). Peer support intervention descriptions were often poor, it was challenging to extract details from many included papers, such as understanding the intervention at 'Cairn Centres' (25), the use of former patients(27), or the form and function of some groups(34). This is an issue both for practice implementation and for study replication.

Research included was typically descriptive, with few trials or other evaluative or comparative studies. Many studies did not use validated measures of outcome e.g. (26, 28, 29). Studies of the perception of peer support are, and have been, overwhelmingly supportive of the benefits of peers. This is no longer the research that is needed. Questions that remain focus on who might benefit most from peer support and what sort of peer support might be most effective. This is particularly true for those with advanced cancer, who were frequent users of peer support programmes, but where the programmes were rarely specifically designed to meet their needs. It is not possible on the basis of this review to recommend a particular form of peer support for those with advanced cancer, and studies are urgently

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needed to investigate this. Peer support for those with (or by) advanced cancer is likely to have specific issues associated with sensitive appreciation of the disease status, fluctuating health, and likely death of those involved in the programmes. This was rarely acknowledged in the included papers, but is important, with important methodological issues(49). Street (35) found two dominant but separate narratives – those who wished to discuss death, and those deferring such discussions. Any peer support programme needs to acknowledge and accept these different approaches.

Recommendations for policy, practice and future research

Peer support has a sufficient evidence base for policymakers and practitioners to be confident in recommending it in policy and putting schemes in to practice. Whilst care is required in thoughtful use of peer support it is likely to be positively perceived. However, the caveat to this is that there are major unanswered questions and issues that require attention:

- a) Peer support interventions should be clearly specified, such that they can be reported using the TIDieR guidelines (50). This does not mean that programmes cannot be responsive and flexible, as this is likely a hallmark of peer support. Rather, care should be taken in planning and describing what is meant by a peer, and how support was given such that practice can be carefully implemented and studies replicated.
- b) Robust, adequately powered, theoretically underpinned, comparative and evaluative studies are required. These should compare different forms of peer support, using appropriate validated measures, in controlled conditions such that a clear understanding of what form of peer support may benefit particular people is known. Designs such as wait-list or stepped wedge trials may offer possibilities where it is felt that the intervention should not be withheld from participants(51-53). Embedded qualitative process evaluations are likely to be required to facilitate understanding of programme implementation and response(54).
- c) Studies which focus on the peer support of those with advanced cancer are urgently needed.These may be specific studies, or where the needs and responses of those with advanced

cancer are studied within a larger project. Nevertheless, attention must be paid to the type of support mechanism required and how to sensitively and methodologically manage issues of deterioration and death.

Conclusion

Peer support appears important to those with advanced cancer, but has little evidence base. Attention must be paid both in service and project design to incorporating the needs of people with advanced cancer in future studies.

Key points:

- Peer support complements, but is distinctive from, health and social care services.
- People with advanced cancer are frequent users of peer support services, but little is known about how best to provide these services, nor their effect.
- A high quality programme of evaluative research is required to understand what forms of peer

support are most effective for people with advanced cancer.

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- 3. Conflicts of interest. None declared.

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Figure 1. Conceptual distinctions of peer support. Reprinted with permission from (13)







Author, date	Review question	Dates searched/Inclusion criteria	Included papers	Findings	Comments
Dunn et al. 2003. (16)	To assess the prevalence and contribution of articles on peer support	1990-2001 Cancer programmes, primarily peer support, with evaluation.	25 Descriptive (15), cross-sectional pre-post evaluations (5), case comparisons (1), experimental (1), Trial (1)	Taxonomy: style of supervision, interpersonal context, and mode of delivery. Peer support programs help by providing emotional and informational support from the perspective of shared personal experience	Paucity of studies, especially trials. No specific comment on advanced cancer.
Campbell et al. 2004. (17)	What types of cancer peer support programs have been evaluated? What do we know about participants? What benefits, risks and barriers are associated with cancer peer support programs?	1980-2002 Peer support by survivors to patients, excluding active role of health care professionals. Exclude children or caregivers.	21 Needs assessments (2), interviews (4), observation (1), focus groups (1), pre-post surveys (7), comparison groups (3), trials (5)	Consistent informational, emotional and instrumental benefits were identified	Moderate scientific quality (lacking theory, program descriptions, validated instruments). No specific comment on advanced cancer.
Hoey et al. 2008. (18)	To identify models of peer support for cancer patients and systematically review evidence of their effectiveness in improving psychosocial adjustment	1980-2007 Peer support to people with cancer, where peer had been diagnosed/treated for cancer.	43 papers 26 descriptive papers, 8 non- randomized comparative papers, and 10 papers reporting eight randomized controlled trials (RCTs)	Five models of peer support were identified: one-on-one face-to-face, one-on-one telephone, group face-to-face, group telephone, and group Internet Papers indicated a high level of satisfaction with peer-support programs; however, evidence for psychosocial benefit was mixed	Tentative recommendations only due to populations (mostly breast cancer) and few comparative studies. No specific comment on advanced cancer.
Macvean et al. 2008 (19)	To conduct a systematic review of literature reporting on the use of volunteers in support programs for people with cancer.	To 2007 Described a program where unpaid volunteers provided one-to-one support to people with cancer	28 papers:8 papers with no data or only service usage data;10papers with one group descriptive data; 6 papers reporting non-randomized comparative studies;4papers reporting randomized controlled trials	Only 19 papers described peer support programmes. Most volunteer-based support programs are well received and have benefits, including improving well-being and/or reducing anxiety	Methodologically poor or inappropriate. No specific comment on advanced cancer.
Meyer et al. 2014 (20)	To determine whether one- to-one peer support programmes benefit cancer patients.	2007-2014 Empirical studies, one-to-one peer support, cancer, in person or by phone, adults.	13 studies: four randomised controlled trials, one non- randomised comparative study	All studies reported high participant satisfaction with the peer support intervention, and the majority noted positive	No specific comment on advanced cancer.

Table 1. Existing reviews of peer support for people with cancer

			and eight one-group descriptive studies.	outcomes regarding psychological adjustment	
Kim and Park,	1.What are the	2000-2014	37 articles were selected for	The most popular mode of intervention	Not all included
2015. (21)	characteristics of the		the systematic review, and	delivery was "peer-to-peer access" in the	papers were on
	current web-based self-	People with cancer, or carers, interventions include	the meta-analysis included 5	communicative functions category,	peer support.
	management support	Web-based self-management support interventions.	articles for fatigue, 7 for	followed by "the use of an enriched	
	interventions for cancer	Only experimental designs.	depression, 5 for anxiety, and	information environment" in the	No specific
	survivors? 2. What modes of		5 for overall quality of life	automated functions category. The effects	comment on
	intervention delivery are			across all outcome measures were small	advanced cancer.
	used for cancer survivors on			to moderate compared to standard care.	
	the Web? 3.Were the web-				
	based interventions for				
	cancer survivors more				
	effective than the standard				
	interventions				
Falisi et al.	To provide a systematic	2005-2015	98 publications	Online support groups were the most	Few assessed
2017 (22)	synthesis of the current			commonly studied platform, followed by	impact on people
	literature on social media in	Has online or web component that is participatory,	13 commentaries and reviews,	interactive message boards and web forums.	with breast cancer.
	order to inform (breast)	breast cancer survivors.	47 descriptive studies, and 38	Limited research focuses on non-Caucasian	
	cancer health		intervention studies	populations. Psychosocial well-being was the	No specific
	communication practice and			most commonly measured outcome of	comment on
	cancer survivorship research			interest	advanced cancer.

Table 2. Inclusion and exclusion criteria

Inclusion criteria	Exclusion criteria
Studies exploring the form, experience or	The question is on hypothetical rather than
impact of any form of peer support for people	actual support.
with cancer.	
	The focus is on peer support for cancer
Peer support (13) has to include being	screening or prevention.
supported by someone with personal	
experience of cancer within a 'created' social	The focus is on training people to be peer
network.	supporters.
This may be part of a wider or more complex	The support is provided by 'embedded social
intervention.	networks' (e.g. friends, neighbours),
	community volunteers, or health and social
	care professionals.
The population receiving peer support must	The population are only those with early stage
include adults with a diagnosis of	or curable cancer.
advanced/metastatic cancer.	The second transformed to be the due formal
	The peer support is only provided to family
	carers, parents or children.
Primary research, any research design.	Review papers
Papers published after 2014 if the focus is on	Papers in languages other than English
one-to-one support, after 2010 for other forms	
of peer support, to avoid duplicating existing	
reviews.	

Table 3. Search terms used

Terms for cancer	Terms for peer support
(MeSH heading or keywords used where possible,	(MeSH heading or keywords used where possible,
truncations allowed, all combined with OR)	truncations allowed, all combined with OR)
Combined	with AND
Neoplasm	Peer group
Cancer	Peer support
Oncology	Peer volunteer
Terminally ill	Peer discussion
Advanced cancer	Peer counselling
	Volunteers
	Hospital volunteers
	Voluntary
	Mentors
	Cancer survivors
	Psychosocial support systems
	Social support
	Self-help groups
	Peer mentor support
	Cancer support
	Buddy

Table 4. Table of included studies

Author, Date,	Research	Design	Data collection	Participants (Peer Mentor	Peer Mentor	Mentee	Findings
Country	question				intervention type	characteristics	Characteristics.	
1:1 support								
Skirbekk et al. 2018. Norway (25)	To explore what peer supporters, patients and their relatives want and gain from peer support in cancer care.	Qualitative.	Focus group and in- depth interviews and observation of daily activities. Systematic text condensation.	38 people interviewed in focus groups or individually. Five FGs (19 peer supporters), 12 interviews (10 patients, 2 spouses), 7 peer supporters.	'Cairn Centres', within hospital settings, provide settings for peer support programmes. Peer supporters available every weekday in common spaces. Patients rarely see the same peer supporter. Peer supporter's patient association provides training.	No information, other than recruited and trained by national cancer association, have had experience of cancer.	Mean age 52. Age and gender typical of Cairn Centre users.	Peer support conveyed hope and ways of coping, protecting against stress. Provided a framework for social comparisons. Were an important supplement to family and health care providers. Being a peer supporter is positive and important.
Mirrielees et al. 2017. US (26)	To evaluate patient, advocate and clinician experience with a Patient Survivor Advocacy (PSA) program	Survey.	Survey created to explore experience, impacts and quality of life topics, experience of program.	14 advocates trained, 40 newly diagnosed breast cancer patients referred. 25 matched to an advocate. 14 surveys received.	Patient Survivor Advocate (PSA) program facilitates peer-to-peer support between those who have completed breast cancer treatment and newly diagnosed patients. Advocates who have completed treatment 1+ years ago were recruited if endorsed by a clinician. 2 day training. Matched to patients on basis of age, type of breast cancer and life factors identified by patients. Contact logs maintained (53% email, 36% telephone, 8% text, 2% face to face)	Advocates: Mean age 50, 93% with invasive cancer.	Patients. Mean age 49. 93% with invasive cancer.	Satisfaction with programme reported, 92.9% say helpful, and would recommend, all peer advocates had a sense of achievement. Contact with advocates improved communication with family and the healthcare team, make treatment decisions, provided information.

Borregaard et	To examine	Qualitative,	Phenomenological	9 Patients,	Weekly availability of a	Male former	3 women, 6	Four themes: exchanging
al. 2018.	how	based on text	qualitative	18+, having	trained former patient	patient.	men between	emotional thoughts easier
Denmark (27)	hospitalised	interpretation	interviews with a	surgical lung	within the hospital ward	Recruited,	ages of 22-80.	with a peer, talking to a
	surgical lung	theory.	narrative structure.	cancer	setting. Current patients	interviewed,		peer reduces loneliness,
	cancer			treatment.	advised of opportunity	with contract		being ambiguous about a
	patients				to talk with him.	to provide		relationship with fellow
	experience					support. 2		patients, being the main
	talking to a					years +		person in the conversation
	former					following own		with a peer.
	patient.					admission.		
						Aged 65.		
Allicock et. al,	What is the	Longitudinal	Telephone survey,	15 trained	Motivational	'Guides' were	'Partners' had a	Guides were proficient at
2014. US (28)	role of guides,	Survey and	Likert scale	'volunteer	Interviewing based 'Peer	18+, either	cancer	MI. Mean of 5 calls to
	perceived	telephone	exploring perceived	guides' (3	Connect' programme.	cancer survivor	diagnosis or	partner discussing fears,
	program	interviews	efficacy, matching,	carers) and 19	Primarily 1:1 telephone	1 year + post	caregiver, 18+.	support needs, coping and
	efficacy,		benefits.	'partners' (4	support. 2 day DVD	treatment, or	Self-referred to	care issues. Partners valued
	program		Qualitative	carers). 4	training on MI, with 6	caregiver.	programme.	listening, support, and non-
	satisfaction		telephone	'partners' had	supplemental sessions.		Matched	judgemental attitude.
	and partner's		interviews.	been	Coordinator managed	Females 66%	mostly on	Diagnosis matching not
	perceptions			diagnosed for	recruitment, matching.	Mean age 56	diagnosis.	necessary.
	about			6+ months.	Six month follow up.	Breast cancer		
	support?			Data not		46%	Females 84%	
				collected on			Mean age 60.7	
				disease status			Breast cancer	
				of guides.			32%	
Moulton et al.	То	Telephone	Telephone survey	57 women	Woman to Woman	15 survivor	Referred by	Helped cope emotionally
2013. US (29)	understand	survey	with 17 questions	(58% response	provides 1:1 peer	volunteers,	oncology team,	with diagnosis (98%),
	experiences		about perceptions	rate) with	support to women in	some with	seen by social	treatment (97%), and
	of Woman-to-		of effectiveness (7	gynaecological	treatment of	recurrent	worker	managed anxiety (96%),
	Woman		point Likert), plus	cancer. Mean	gynaecological cancers.	disease. 8	coordinator.	provided hope. Helped
	programme,		open ended	age 58.	Matched on patient	hours of		communicate with partner
	and		questions on	72% White.	characteristics.	training.		(43%).
	perceptions		program.	51% college	Collaborates with	wonthly		
	or now met			uegree.	multidisciplinary team at	volunteer		
	psychosocial			50% Stage III	cancer centre. Follow	meetings.		
	needs.			ovarian	treatment visiting them			
				Lancer, and	in bosnital settings			
				13% Stage IV	tunically 10 20 minutes			
				ovarian	long			
	1			cancer.	iong.	1	1	

Group support								
Mens et al. 2016. US (30)	To identify mediators underlying the effects of an education and peer support intervention for women with breast cancer.	Randomised design comparing early stage vs late stage cancer randomised to education, peer support or a control condition.	Baseline, two weeks, 6 months. Interview or mailed survey. SF36, Center for Epidemiological Studies Depression Scale (CES-D). Life Engagement Test (LET), Confidence scale.	245 women with either first time diagnosis stage I or II breast cancer (180) OR initial diagnosis of stage IV or distant recurrence breast cancer (65).	Education: weekly group meetings to provide information about disease. Peer support: focused on fostering purpose on life by providing opportunity to support and care for each other. Group facilitator present. 1-hour meetings for 8 weeks. Low attendance noted.	NA	NA	Peer support intervention reduced depressive symptoms increased life purpose at 2 weeks for both early and late stage cancer for those who attended a meeting. ITT showed no effect.
Szalai et al. 2016. Hungary. (31)	To clarify channels of social support through a belly dancing peer support group.	Comparative, non- randomised quantitative study comparing belly-dancing support and aged matched controls.	Health related quality of life and overall life satisfaction. EORTC QLQ C30, F-SozU social support questionnaire. Baseline and 1 year follow up. Semi-structured interviews.	51 people interviewed. Mean age 48, educated, 31.4% had metastatic disease.	Belly dance rehabilitation programme, held outside the hospital setting. 3 hours weekly, 90 minutes physical activity, 90 minutes group discussion, without a facilitator.	NA	NA	Belly dancing group scored better at both baseline and follow up. Social support achieved through emotional, practical and informational support by the role model function.

a) Morris et al.	a) The role of	a)Pre-and	a) Social identity	51 women	A shared 1000 mile	NA	NA	a) Cancer related distress
2012.	social	post peer	measure,	with breast	motorcycle ride (2 rides			significantly reduced, but no
Australia (32)	comparison	intervention	Identification –	cancer, mean	in US and Australia),			difference to post-traumatic
	and social	survey.	Contrast Scale for	age 49,	preceded by a 6 month			growth. Challenge based
b) Morris et al.	identity based		social comparison,	average 6.39	online discussion group.			activities may provide a
2010 Australia	on group	b) Qualitative	Impact of event	years since				positive peer support
(33)	membership		Scale – Revised	diagnosis.				environment.
	on		(IES-R) to measure	14% had				
	posttraumatic		distress,	recurrent				b) Peer support is a safe
	growth and		Posttraumatic	breast cancer.				network, providing
	distress.		Growth Inventory					understanding and
	b) To		(PTGI).					acceptance. Overcoming
	understand							challenge enables bondinig
	the lived		b)	b) 37 women.				and affirmed a survivor
	experience of		Phenomenological	Demography				identity.
	Breast cancer		interviews and	as above.				
	survivors		written narratives.					
	participating							
	in a peer-							
	support							
	programme							
Ashing-Giwa	To examine	Qualitative	Focus groups and	62 African	Five different peer	NA	NA	Themes include: a) comfort
et al. 2012. US	the impact of		questionnaires.	American	support groups.			and hope, (b) belonging and
(34)	support			breast cancer				companionship, (c) health
. ,	groups among			survivors.				information and navigation,
	African			Mean age 62.				(d) economic and functional
	American			8 stage III, 3				relief, and (e) self-esteem
	breast cancer			stage IV				and purposefulness. African
	survivors			cancer.				American BCSs prefer
								culturally and socio-
								ecologically embedded
								support groups.

Street et al.	To investigate	Qualitative	Telephone	20 people (10	Telephone and online	NA	NA	Two dominant narratives: a
2012.	motivations		interviews.	online group	groups facilitated by			focus on dving with dignity
Australia (35)	for		qualitative content	10 telephone	cancer information and			or an interests in deferring
/ (00)	involvement		analysis	group) Mean	support service Those			discussion of death to focus
	in technology-		unurysisi	age 49 14	for people with			on the present Groups
	hased support			females	advanced cancer are			were accessible and safe
	groups for			Diagnosis of	facilitated by purses			environments in which to
	people with			advanced	who make check-calls to			discuss difficult topics
	advanced			auvanceu	accoss availability and			discuss difficult topics.
	auvanceu			cancer.	assess availability allu			
	Caller				see II ally issues. Six			
					facture sessions			
					forthightly for each			
					online group (60-90			
					minutes), with 6-8			
					participants and 2			
					palliative care nurses.			
					Online meet in a			
					password protected			
					chat room. Telephone			
					groups meet as a			
					teleconference.			
Power &	To evaluate a	Qualitative	Pre and post	8 women with	7 week facilitated peer	NA	NA	Themes: The need for
Hegarty, 2010,	facilitated		program focus	breast cancer.	support programme.			mutual identification, post-
Ireland (36)	breast cancer		groups. Content	Aged 30 – 60,	Run in a cancer support			treatment isolation, help
	peer support		analysis.	completed	house. Led by nurse			with moving on, the impact
	program			treatment.	counsellor, with a Reach			of hair loss, consolidation of
					to Recovery volunteer,			information,
					trained as a peer			enablement/empowerment,
					supporter. Groups			the importance of the
					lasted 2.5 hours.			cancer survivor.
Online support	<u>.</u>	•	<u>.</u>	<u>.</u>	J		1	1

Lovatt et al.	To examine	Interpretive,	Sample from	135 threads	Online forum,	NA	NA	Three dimensions to trust:
2017. UK (37)	now trust	qualitative	threaded forum	across 9	moderated by the staff			structural, relational and
	develops and	approach.	posts from a UK	boards.	of a cancer charity.			temporal, which are
	influences		based breast cancer	Includes a				intersecting. Aspects such as
	sharing		charity.	board called				not ranting and using
	among users			'end of life'.				humour were key to
	of an online		Semi structured					assessing and conveying
	breast cancer		interviews face to	Interviews				trust.
	forum.		face, skype or	with 14 forum				
			telephone.	users, no				
				information				
				on disease				
				status.				
Owen et al.	To evaluate	Wait-list trial.	Baseline and 12	299	Health-Space	NA	NA	Four different kinds of
2016. US (38)	social	Randomised	week measures.	participants	intervention included			communication channel
	network	allocation to	Depression (CES-D),	from larger	access to confidential			that create independent
	characteristics	immediate or	trauma (IES-R),	wait-list study.	community of cancer			opportunities for people to
	of different	12 week wait	social support (Yale	77% female,	survivors (asynchronous			interact. Multiple channels
	forms of	intervention.	Social Support	mean age	discussion, personal			expands networks and
	social	Reported	survey, YSS), and	53.8, well	pages, blogs, mail, and			enhances engagement.
	networking	here are data	social constraints	educated.	real-time 90 minute			
	interventions,	on all those	(Social Constraints	24.7% had	weekly chat) and			
	determine	who accessed	Inventory SCI).	late stage	professional facilitators			
	who	intervention,		cancer. 45%	and a structured, 12			
	participates,	regardless of	Network attributes	breast cancer,	week coping skills			
	and evaluate	randomised	such as density,	14% prostate	training intervention.			
	whether	condition.	clustering,	cancer.	-			
	community		connectedness.					
	membership							
	impacts							
	engagement.							

Lobchuk et al.	To describe	Descriptive	Convenience	Registered	Secured, monitored	NA	NA	Themes: disease, test,
2015. Canada	the content of	exploratory	sample of archived	users were 36-	online support			treatment information;
(39)	messages in	qualitative	online threaded	65 years old,	community. Monitors			symptoms, marked
	an online	case study	messages within an	78% female.	respond to some			deterioration, advocacy,
	support	approach to	online lung cancer	Around 50%	postings to correct			experiencing healthcare
	community	analyse a	support community	were support	erroneous information,			providers, survivorship,
	for lung	sample of	over a two month	persons (e.g.	remove spam, abuse			making sense of emotions.
	cancer.	online pages.	period.	family, the	etc. Volunteer peer			Predominant focus on
				others	monitors guided on how			symptoms and meeting
				diagnosed	to respond to posts and			instrumental and emotional
				with lung	report concerns.			needs.
				cancer.				
Batenburg and	Hypothesised	Longitudinal	Survey.	133 people	Dutch online	NA	NA	Increased emotional
Das. 2014.	an interaction	cohort study	Demographic	with breast	communities for people			wellbeing if highly active
Netherlands	between		information. Social	cancer, 109	with breast cancer.			online, and approach their
(40)	emotional		support (FACT-B),	visited online				emotions less actively.
	coping style		Depression (CESD-	communities.				
	and intensity		10), Emotional	Mean age 48.				
	of online		coping scale, Profile	Educated.				
	participation.		of concerns about	32.5% had				
			breast cancer,	'cancer cells'				
			intensity of use of	currently.				
			online					
			communities					

Batenburg and	Hypothesized	Cross-	Survey.	175 women	Dutch online	NA	NA	Breast cancer patients'
Das. 2014.	relationship	sectional	Demographic	with breast	communities.			ability to cope with
Netherlands	between	survey	information.	cancer. Mean				emotions and thoughts
(41)	active online	design.	Intensity of use of	age 48. 12%				regarding the illness
	support group	-	online	degree				influence the relationship
	participation		communities.	educated.				between online support
	and		Cognitive avoidance	14.3% stage				group participation and
	emotional		(Dutch mini-MAC),	III, 9.1% stage				psychological well-being
	wellbeing,		Emotional	IV.				
	depression,		Approach Coping					
	and concerns.		scale, Depression					
			(CES-D10).					
			Functional					
			Assessment of					
			Chronic Illness					
			Therapy					
			questionnaire					
			(FACIT-B)					
Bender et al.	To explore	Cross-	Postal survey	73 survey	Any form of online	NA.	Peers who	Online communities used by
2013. Canada	the role of	sectional	exploring use of	respondents	community reported.		accessed any	31.5% mostly during
(42)	online	survey	online	(16.4% with			form of online	treatment, for information
	communities	followed by	communities.	recurrent			cancer support	(91.3%), symptom
	from the	qualitative	Telephone	disease), 12			community.	management (69.6%),
	perspective of	interviews.	interviews	interview			Often tested or	emotional support (47.8%).
	breast cancer		exploring how	respondents			accessed more	Addressed unmet needs
	survivors who		became aware of	(8.3% with			than one	during time of uncertainty.
	are		online	recurrent			community.	A different form of support
	facilitators of		communities,	disease).				and information.
	face-to-face		motivations,	Recruited				
	support		comparisons to	from those				
	groups.		other support	attending				
			forms.	support group				
				facilitator				
				training.				

VI: Latile at -1	Ta idaatifu	Company	<u>Outine</u>		Line of discussion formers	NIA	NIA	Initial attacult to use to the second
YII-Uotila et al.	To identify	Survey	Unline	74 adults.	Use of discussion forums	NA	NA	initial stimuli to use internet
2013. Finland	the initial		questionnaire,	Mean age 53.	hosted on a cancer			was ease of communication,
(43)	stimuli and		demographic	87% female.	society website.			access to information, need
	motives of		details, experience	Educated. One				for emotional and
	patients with		of cancer, use of	forum was				informational support.
	cancer to seek		the internet.	particularly				Seeking peer support was
	social support			for people				important, especially when
	on the			with chronic				fearful of expressing self to
	internet.			cancer or				family. Healthcare systems
				palliative care				cannot meet needs.
				treatment.				
Klemm. 2012.	To evaluate	Randomised	Depressive	50 women	Moderated or peer-led	NA	NA	No significant differences in
US (44)	the effects of	longitudinal	symptoms (CES-D),	with breast	12 week online support			depressive symptoms by
	different	design	demographic	cancer	groups. 15 women			group or extent of group
	formats of	comparing	information.	recruited from	recruited in to each			participation. Moderated
	online group	two forms of	Baseline, 6 weeks,	breast cancer	group in waves. Four			groups posted more often.
	support	online	12 weeks.	organisation.	groups in total.			
	(moderated	groups.		Mean age 53	Moderated groups			
	vs. peer led)	0		(moderated).	included social work			
	on depressive	Random		52 (peer led.	trained moderators.			
	symptoms	allocation to		16 had	trained in online			
	and extent of	moderated or		metastatic	support			
	narticination	neer-led		disease	Support			
	inwomen	online		alsease.				
	with broast	support						
	with breast	support						
	cancer.	group.		1	1		1	

Vilhauer et al. 2010. US (45)To evaluate the feasibility and acceptability of an online per support intervention for women with metastatic breast cancer.Baseline and 6 monthly30 women with with metastatic breast cancer.Three online support group for 6 months, or 4 months for waitlist condition. Some groups mixed immediate and waitlist condition participants.Size of study precluded definitive conclusions about intervention for women with metastatic breast cancer.Size of study precluded definitive conclusions about intervention per support support (MSPSS), Positive and Negative Affect Schedule (PANAS), Depression (CES-D).Three online support group for 6 months, or 4 months for waitlist condition. Some groups mixed immediate and waitlist condition participants.Size of study precluded definitive conclusions about intervention feasible.Vilhauer et al. and of a online intervention for women with metastatic breast cancer.Value breast precived social support (MSPSS), Positive and Negative Affect Schedule (PANAS), Depression (CES-D).Three online support metastatic breast cancer.Size of study precluded definitive conclusions about intervention participants.Vilhauer et al. metastatic breast cancer.Point positive and Negative Affect Schedule (PANAS), Depression (CES-D).Three online support metastatic breast cancer.Size of study precluded definitive condition participants.Vilhauer et al. breast cancer.Positive and Negative Affect Schedule (PANAS), Depression (CES-D).The online with metastatic breast canc
2010. US (45)the feasibility and acceptability of an online peer support intervention for women with metastatic breast cancer.with group for 6 months, or 4 metastatic breast cancer.group for 6 months, or 4 months for waitlist condition. Some groups mixed immediate and waitlist condition participants.definitive conclusions about intervention feasible.2010. US (45)the feasibility and acceptability of an online peer support intervention for women with metastatic breast cancer.with support (MSPSS), Positive and Negative Affect Schedule (PANAS), Depression (CES-D).with metastatic breast cancer.group for 6 months, or 4 months for waitlist condition. Some groups mixed immediate and waitlist condition participants.definitive conclusions about intervention effectiveness. Recruitment was lengthy, but other study procedures feasible.2010. US (45)the feasibility of an online peer support intervention for women with metastatic breast cancer.Satisfaction perceived social support (MSPSS), Positive and Negative Affect Schedule (PANAS), Depression (CES-D).with metastatic breast cancer.group for 6 months, or 4 months for waitlist months for waitlist mixed immediate and waitlist.monthly mixed immediate and waitlist.feasible.16 immediate, perceived social support (MSPSS), Depression (CES-D).Perceived social support (MSPSS), Depression (CES-D).support (MSPSS), perceived social schedule (PANAS), Depression (CES-D).Perceived social support (MSPSS)support (MSPSS), perceived social schedule (PANAS), <b< td=""></b<>
and acceptability of an online peer support intervention for women with metastatic breast cancer.metastatic breast cancer.months for waitlist condition. Some groups mixed immediate and waitlist condition participants.intervention effectiveness. Recruitment was lengthy, but other study procedures feasible.rowmen with metastatic breast cancer.Perceived social support (MSPSS), Positive and Negative Affect Schedule (PANAS), Depression (CES-D).metastatic breast cancer.months for waitlist breast cancer.intervention effectiveness. Recruitment was lengthy, but other study procedures feasible.Logbooks of timeLogbooks of timeLogbooks of timeLogbooks of timeLogbooks of timeLogbooks of time
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peer support intervention for women with metastatic breast cancer.ECOG performance scales. FACT-B, Perceived social support (MSPSS), Positive and Negative Affect Schedule (PANAS), Depression (CES-D).14 waitlist.waitlist condition participants.feasible.Image: Support (MSPSS) positive and Depression (CES-D).14 waitlist.waitlist condition participants.feasible.Image: Support (MSPSS) positive and Depression (CES-D).14 waitlist.waitlist condition participants.feasible.Image: Support (MSPSS) positive and Depression (CES-D).Positive and participants.feasible.feasible.Image: Support (MSPSS) positive and Depression (CES-D).Feasible.feasible.feasible.Image: Support (MSPSS) positive and Depression (CES-D).feasible.feasible.feasible.Image: Support (MSPSS) positive and Depression (CES-D).feasible.feasible.feasible.Image: Support (MSPSS) positive and Depression (CES-D).feasible.feasible.feasible.Image: Support (MSPSS) positive and positive and positive and positive and positive and positive and positive and positive and positive and <br< td=""></br<>
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Indication Perceived social for women Perceived social with support (MSPSS), metastatic Positive and breast cancer. Negative Affect Schedule (PANAS), Depression (CES-D). Logbooks of time
with support (MSPSS), metastatic Positive and breast cancer. Negative Affect Schedule (PANAS), Depression (CES-D).
metastatic Positive and increasing activity. breast cancer. Negative Affect Schedule (PANAS), Depression (CES-D).
breast cancer. Negative Affect Schedule (PANAS), Depression (CES-D).
Schedule (PANAS), Depression (CES-D). Logbooks of time
Logbooks of time
Logbooks of time
Logbooks of time
taken online and
activities.
Post-intervention
telephone
interviews
Comparing forms of support
Huber et al To identify Cross Quality of life 955 patients Face to face (230 NA NA Online used by younger
2017 differences sectional (FORT COLO C30) visiting face- groups) and online
Germany (46) and comparison Patient Health to-face groups (with 3357
similarities in study Questionaries support registered users)
anampestic (PHO-2) groups and organised by the (17 vs. 12% p<0.001). OSG
medical and Generalised Anviety 686 using Prostate Cancer Patient report more distress. Face
nsychological Disorder Scale online support Support Organization of to face better for
characteristics (GAD-2) distress groups Germany Face to face
of users of thermometer.
face-to-face Control Preferences E:E 12% group leader who
and online Scale. metastatic organises meetings.
support disease OSG
groups for 17%
nrostate
cancer

Editorial Manage	r MS Check Fo	orm, Current Opinion
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MS Number	SPC120308		
Corresponding Author name (# of authors?)	Catherine Walshe		
Review title	Peer support for people with advanced cancer: a systematically constructed scoping review of quantitative and qualitative evidence		
Section	Living with cancer and the consequences of treatment		
Author address on MS?	Y		
Author email on MS?	Y		
Structured abstract	V		
Kowwords			
	v		
Conclusion	Y		
Key points	Υ		
Word count: abstract	191		
Word count: text	2370		
Bullets/annotations	Y		
Refs. in sequence?	Y		
Conflicts of Interest	Y		

	Identify	Permissions
Colour figures	1	Original
Half tones	0	-
Line drawings	Fig 1	Got on RL
Tables	4	Original
Figures/Tables cited in text?	Y	
Figure legends and titles?	Y	

Colour online? (Y/N, charge or free)	Ν
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