Cancer survivors' perspectives on adjustment-focused self-management interventions: A qualitative meta-synthesis

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Abstract

Purpose Self-management interventions improve patient outcomes across a range of long-term conditions, but are often limited by low uptake and completion rates. The aim of this paper was to conduct a meta-synthesis of qualitative studies exploring cancer survivors' views and experiences of engaging with adjustment-focused self-management interventions in order to inform the development of future interventions targeting this population.

Methods Four electronic databases were systematically searched. Studies that used qualitative methods to explore cancer survivors' views and experiences of engaging with adjustment-focused self-management interventions were included. A meta-ethnographic approach was used to synthesize the findings.

Results Thirteen studies met the inclusion criteria. Engaging with adjustment-focused self-management interventions enabled cancer survivors to gain emotional and informational support from peers and/or facilitators in an open, non-judgemental environment, become empowered through enhancing knowledge and skills and regaining confidence and control, and move beyond cancer by accepting illness experiences, reprioritising goals and adopting a positive outlook. However, the extent to which they engaged with, and benefited from, such interventions was mitigated by diverse preferences regarding intervention design, content and delivery. Personal obstacles to engagement included low perceived need, reticence to discuss cancer-related experiences and various practical issues.

Conclusions Cancer survivors derive a range of benefits from participating in adjustment-focused selfmanagement interventions; potential barriers to engagement should be addressed more comprehensively in intervention marketing, design and delivery.

Implications for cancer survivors The findings suggest some key considerations for the development and implementation of future adjustment-focused self-management interventions that may help to optimize their appeal and effectiveness among cancer survivors.

Keywords: meta-synthesis; qualitative research; self-management; cancer; survivorship

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Introduction

Self-management refers to an "individual's ability to manage the symptoms, treatment, physical and psychosocial consequences and lifestyle changes inherent in living with a chronic condition" [1, p. 178], and represents an ideological shift in healthcare from viewing patients as passive recipients of care to empowered partners in managing their own health [2]. Self-management interventions focus on enhancing patients' ability and confidence to manage their condition effectively by providing education, training and support to develop their knowledge, skills and both internal and external resources [3]. They have been developed for a range of different long-term conditions and can take a variety of forms (e.g., lay or professionally led, generic or disease-specific, group or individually delivered) [1]. They typically incorporate multiple components targeting core skills such as problem solving, action planning/goal setting, communicating with healthcare providers, and making effective use of available resources [4].

A large body of research suggests that self-management interventions have the potential to improve a range of clinical and psychosocial outcomes [1, 5, 6] and reduce healthcare use [7] among people with long-term conditions, including cancer [8, 9]. Despite these potential benefits, significant gaps remain in understanding which aspects of self-management interventions work best, in what circumstances, and for whom [3, 10]. A substantial proportion of patients do not engage with self-management interventions, as indicated by low uptake and high attrition rates observed in research and clinical practice [2, 10, 11]. Given that the impact and cost-effectiveness of self-management interventions are dependent on the extent to which individuals in the target population are willing to engage with them, patients' perspectives should be taken into consideration and integrated into their design and delivery.

The promotion of self-management has gained increasing recognition as an important aspect of cancer survivorship care [8, 12]. Although cancer survivors may wish to take an active role in dealing with challenges related to their condition and its treatment, they often need specific support in learning how to do this [13]. Despite growing calls for the development of self-management interventions for cancer survivors, it remains unclear how best to design such interventions to engage this diverse population and address their needs and preferences [9]. Qualitative research conducted among cancer survivors who have experience of engaging with self-management interventions offers an opportunity to explore their perspectives; this information may, in turn, be valuable in determining how to optimise the appeal – and effectiveness – of future interventions targeting this population. Meta-synthesis involves drawing together the findings of qualitative studies in order to build a more in-depth understanding of a specific phenomenon, and is being increasingly employed to inform health-related policy and

practice [14]. The aim of the present study was to conduct a meta-synthesis of qualitative research examining cancer survivors' views and experiences of engaging with self-management interventions in order to inform the development of future interventions.

Method

There are a number of evolving methods for synthesising qualitative research [14]. In the present study, a metaethnographic approach was employed based on methods described by Noblit and Hare [15, 16]. Meta-ethnography is an interpretative rather than aggregative approach, which involves the reciprocal translation of qualitative findings (i.e., comparing each study's concepts and their interrelationships with those of other studies, while preserving the meanings and context of the primary data) to develop new theoretical insights that give a better understanding of the "whole…based on selective studies of the parts" [15, p. 62]. This approach was chosen for the present synthesis as it is widely used in research on healthcare and is suited to exploring patient experiences [17]; it has also been recommended for synthesising smaller numbers of papers [18]. The Enhancing Transparency of Reporting the Synthesis of Qualitative Research (ENTREQ) statement was followed [18].

Search strategy

A systematic search of four electronic databases (Medline, PsycINFO, CINAHL, and Web of Science) from 1990 to November 2015 was conducted. A search strategy combining controlled vocabulary and free-text search terms was created and adapted to each database (an example is provided in Appendix 1). This strategy was supplemented by manually searching the reference lists of papers selected for further potentially relevant material. Due to time and budgetary constraints, results were limited to English language publications.

Selection of eligible papers

Following the removal of duplicates, all titles and abstracts were independently screened by two authors (LC and OM). Articles identified as potentially eligible for inclusion were obtained in full and reviewed independently by LC and OM. Differences in opinion were discussed and brought to a third reviewer (PG) if consensus could not be reached.

Papers were selected for inclusion if they: (i) included cancer survivors (defined as individuals from point of diagnosis onward) who were aged 18 years or over when diagnosed; and (ii) presented analysis of qualitative data

that explored their views and experiences of engaging with a self-management intervention (mixed methods papers were eligible if qualitative data were reported separately and in detail). Based on previous reviews of this topic [19, 20], self-management interventions were defined for the purposes of the present meta-synthesis as structured, multi-component interventions of limited duration that provide education, training and support in selfmanagement and teach core self-management skills, such as goal setting and problem solving, through a process of interactive and participatory learning. Interventions covered by this definition were eligible, irrespective of their design (e.g., lay or professionally led, individual or group-based, delivered face-to-face or via Internet/telephone). Interventions that included carers or relatives were considered eligible if they were primarily targeted towards cancer survivors. This meta-synthesis concentrated on adjustment-focused (i.e., facilitating overall transition to survivorship) rather than problem-focused (i.e., enhancing skills for managing specific problems or symptoms) self-management interventions, in line with Davies and Batehup [20]. Papers were ineligible if interventions: (i) involved provision of information alone (i.e., no training in self-management skills); (ii) were not delivered by some form of organised content delivery and/or were open-ended in duration (e.g., informal cancer support groups); (iii) focused on a specific aspect of cancer survivorship (e.g., diet/exercise, return to work, side-effects of specific treatments, or specific symptoms); (iv) focused specifically on end-of-life concerns for advanced cancer/palliative care patients; or (v) were mindfulness-based stress reduction or life coaching interventions.

Quality appraisal

The quality of eligible papers was appraised independently by two authors (LC and OM) using the Critical Appraisal Skills Programme (CASP) qualitative research checklist [21], which considers rigour and credibility of relevant studies under eight headings (research design, recruitment, data collection, researcher-participant relationship, ethical issues, data analysis, findings, and value of the research). The reviewers used a three-point system to rate each paper on how it explained each of the eight areas (weak = 1, moderate = 2, strong = 3) [22]. Any differences between reviewers' scores were resolved through discussion and, if needed, reference to a third reviewer (PG). Scores were then summed for each paper, giving a possible score of 8-24. This quality review was conducted to aid readers' critical consideration of the credibility of the included papers' findings, and as such papers were not excluded on the basis of their scores, Furthermore, as ratings on CASP criteria tend to reflect the quality of reporting rather than that of the research undertaken, and do not necessarily indicate the robustness, trustworthiness or transferability of findings [17,18].

Data extraction and synthesis

Meta-ethnography involves three levels of construct: first-order constructs (participants' interpretations of their experiences as reported in direct quotations); second-order constructs (study authors' interpretations of participants' accounts); and third-order constructs (the synthesis team's interpretations of the first- and second-order constructs) [23]. Two reviewers (LC and OM) read and re-read the papers in alphabetical order and independently compiled tables of second-order constructs extracted from each paper, illustrating them with first-order constructs. These tables were compared to identify and develop working definitions for key concepts. A grid was created, in which each row represented a paper and each column represented a key concept. Cells were populated by the first- and second-order constructs extracted previously. By reading off the grid and checking that the content of each cell was accurately represented by the column label, it was possible to write a translation of these key concepts across papers while ensuring that they fully encompassed the first- and second-order constructs identified from the primary data, with labels retaining the authors' original wording wherever possible. These translations were further developed and synthesised into third-order constructs using a 'lines of argument' approach. This involves constructing a new overarching interpretation that can be applied across studies, which integrates their similarities and differences [15, 24]. LC led the synthesis; the third-order constructs were independently confirmed by OM.

Results

The initial searches yielded 5,016 articles excluding duplicates (Figure 1). Thirteen papers were eligible for inclusion in the meta-synthesis [25-37]. The study and intervention characteristics of each paper are provided in Tables 1 and 2, respectively.

*** Figure 1 about here ***

Study characteristics

Papers were published between 1998 and 2015 and originated from the UK (n=4), USA (n=3), Australia (n=2), Canada (n=2), Hong Kong (n=1), and Malaysia (n=1). Qualitative data were collected using interviews (n=9), open-ended questions (n=5), and/or focus groups (n=2). In five studies, the sample comprised survivors with different types of cancer; eight studies had samples limited to one type of cancer [breast (n=3), ovarian (n=1), colorectal (n=1), head and neck (n=1), lung (n=1), testicular (n=1)] (Table 1).

Interventions were delivered to participants face-to-face (n=9), by telephone (n=2), or through a combination of these methods (n=2) in either a group format (n=8), individually (n=3), or both (n=2). Interventions targeted individuals newly diagnosed with cancer (n=5), those who had completed primary treatment (n=4), or were open to individuals at any stage of their cancer journey (n=4) (Table 2).

*** Table 2 about here ***

Quality appraisal

CASP scores for the 13 included papers ranged from 10-19 out of a possible 24 (Table 1), with a mean value of 15.31 (median = 17). Many scored poorly (i.e., a score of one) in the areas of reflexivity, ethical issues and data analysis.

Synthesis findings

Synthesis of the included papers' findings resulted in five third-order constructs associated with cancer survivors' experiences and perceptions of engaging with self-management interventions: 1) gaining support (sharing experiences with peers; interacting with intervention facilitators; having a safe space to talk); 2) becoming empowered (increasing knowledge; learning new skills; regaining confidence and control); 3) moving beyond cancer; 4) issues around intervention design - one size does not fit all (preferences about group composition, intervention delivery, and intervention content); and 5) personal obstacles to engagement. Table 3 presents these constructs along with illustrative quotations from participants, and shows which papers contributed to their development.

*** Table 3 about here ***

Gaining support

Gaining support from fellow cancer survivors and/or intervention facilitators in an open and non-judgemental environment was highlighted by study participants as an important aspect of their intervention experience.

Sharing experiences with peers

Participants in group-based interventions valued their supportive and empathic interactions with fellow cancer survivors highly [25, 26, 29-31, 34-37]. Many experienced feelings of isolation as a result of their illness, and having the opportunity to meet others "in the same boat" [26, p. 27] made them feel less alone [25, 26, 31, 37]. Participants were keen to share their stories with each other and compare their experiences [25, 26, 31, 34-37]. Finding out that they faced similar issues – such as pain, fear of recurrence, altered body image [34], anxiety [37], depression, fatigue, or feeling hopeless [25] - was reassuring, as it validated their own experiences of survivorship and helped to normalise what they had been through [25, 26, 31, 34, 35, 37]. These reciprocal exchanges also allowed participants to learn from each others' experiences [31, 34-37]. Hearing about how other people dealt successfully with their cancer, especially those who had more traumatic experiences [35] or were further along in their cancer journey [35, 36], provided them with inspiration to overcome the challenges they faced [31, 34, 35, 37]. For example, Loh and colleagues [34] described how observing the healthy behaviours and upbeat attitude of other participants encouraged breast cancer survivors who took part in their intervention to make positive changes in their own lives. Participants often felt a deep sense of connection and "togetherness" [37, p. 13] with their fellow cancer survivors as a result of their shared experiences [25, 26, 29-31, 34, 37], and were an important source of companionship and support during the intervention [25, 26, 30, 31, 34] and beyond in some cases [34]. Many expressed a desire for more group discussion time in their interventions [25, 26, 31] in order to facilitate "a greater degree of social attachment, support and the sharing of experiences" [26, p. 28].

Interacting with intervention facilitators

Facilitators were an important source of emotional and informational support for participants in both one-on-one [27, 28] and group-based [26, 29, 31, 34-37] interventions. Their knowledge of cancer survivorship and understanding of the various challenges it poses were positively received by participants [27, 28, 31, 37], who valued having the opportunity to ask questions about their illness and its consequences [26, 35, 37] and appreciated their ability to convey information in everyday language [35, 37]. Some commented that they were especially skilled at managing group discussions and ensuring that everyone's voice was heard [35, 36]. Facilitators' empathic interactions with participants helped them to open up about their cancer-related experiences [26-28, 35, 37]. The support and encouragement provided by facilitators in these exchanges had a positive influence on participants' emotional wellbeing [26-29, 31, 37].

Having a safe space to talk

Participants noted how the support and understanding provided by peers and/or facilitators helped to foster an open and "non-stigmatised" [34, p. 1494] environment in which sensitive issues relating to their experiences of cancer – such as recurrence [37], death [27], sexuality [28], or stigma (of lung cancer) [27] – could be discussed freely and without self-censorship [25-28, 34, 35, 37]. Testicular cancer survivors in Martin and colleagues' [35] study remarked that men rarely talked openly about their experiences, which made this aspect of their intervention particularly important to them. Some participants talked about how their loved ones had trouble understanding or accepting what they were going through [26, 27]; having a "neutral" [27, p. 66] audience, independent from other sources of support in their lives, with whom they could talk about their experiences was greatly valued.

Becoming empowered

Participants described how engaging with self-management interventions enabled them to become empowered in managing the consequences of their condition and its treatment by equipping them with knowledge and skills and allowing them to regain their confidence and control.

Increasing knowledge

Participants were often critical of the limited amount of information they received about cancer and its consequences prior to taking part in an intervention [28, 34, 35]; acquiring greater knowledge of their condition was considered an important aspect of taking part [28, 31, 34, 35, 37]. The information they were provided with helped to dispel unhelpful myths about cancer [34] and allay fears about what lay ahead [28, 31, 35, 37], which helped to reduce anxiety and facilitate a greater sense of control. For participants in two studies [28, 37], finding out more about resources available in the community provided reassurance. Some participants expressed their satisfaction at how information was delivered incrementally over the course of their intervention, which prevented them from becoming overwhelmed [34, 35].

Learning new skills

Across studies, participants reported receiving education and training in the use of various skills and practices that enhanced their ability to self-manage the consequences of cancer and its treatment [25-32, 34-36]. Goal setting (or action planning) was a central component of several interventions [25, 29, 30, 32, 35, 36]. Learning how to set and monitor progress towards valued goals provided motivation and focus, which was reinforced by feedback received from peers and/or facilitators [32, 35, 36]. Striving towards and successfully attaining goals, no matter how small, boosted participants' confidence and gave them a real sense of achievement [25, 30, 35]. Learning

how to manage negative thoughts was another common intervention component [26, 27, 30]. Participants found this practice useful in reframing their illness experiences and putting things into perspective, which helped them to cope better with challenges [26, 30] and manage their distress more effectively [27]. Self-monitoring of daily activities using observation logs or activity scheduling helped participants to identify any negative patterns in their own thoughts or behaviour and enact changes to break this cycle [26, 29]. Training in relaxation and breathing exercises, which were considered effective in aiding sleep [27, 28], improving mood [27], and providing distraction in potentially stressful situations [26], was also frequently included [25-28, 30, 31]. Advice about diet and exercise was helpful in increasing participants' motivation to maintain a healthy lifestyle [34, 35]. Both breast and testicular cancer survivors commented on the value of receiving training in physical self-examination to detect recurrence [34, 35]. Practicing these self-management skills regularly helped participants to gain confidence in their use and integrate them into their everyday lives [30, 34], while teaching them to friends and family members appeared to further enhance their expertise [30, 31, 34]. Many participants continued to employ the skills learned during their intervention long after its completion [25, 30, 31, 34, 35]. Participants noted that take-home materials such as manuals, factsheets and relaxation tapes were helpful in encouraging and supporting their ongoing use [26, 29, 30, 32, 37].

Regaining confidence and control

Providing participants with the knowledge and tools to self-manage the impact of cancer more effectively allowed them to regain their confidence and sense of control over their lives [25, 27, 29-31, 34, 35, 37]. Participants found that engaging with a self-management intervention had increased their self-efficacy [27, 30, 34] and given them the motivation and confidence to take responsibility for their own wellbeing [25, 37] and deal with challenges more proactively [27, 34]. Some participants talked about how they were more confident in communicating with health professionals [34, 37] and making treatment decisions [34] as a result of taking part.

Moving beyond cancer

Taking part in a self-management intervention often acted as a "major catalyst or turning point" [25, p. 40], giving cancer survivors the impetus needed to move on with their lives [25, 27, 29-31, 34-37]. Having the opportunity to reflect on their experiences in a supportive environment helped them to reach a sense of acceptance about their illness [25, 27, 34, 35]. Rather than remaining focused on cancer, participants were determined to live life to the full [25, 37]. For many, this involved reprioritising their goals and devoting more time to enjoyable activities [26, 30, 31, 34], such as hobbies and interests [30, 31] or volunteering [30, 34], without feeling guilty [30].

Participating in a self-management intervention also helped survivors to develop a more positive outlook [29, 31, 34, 35, 37] and imbued them with a sense of hope [31, 36].

Issues around intervention design - one size does not fit all

Although study participants were generally very positive about their experience of taking part in a selfmanagement intervention, issues regarding group composition and intervention design, content and delivery appeared to hinder their engagement.

Preferences about group composition

Cancer survivors' engagement with group-based interventions appeared to be influenced significantly by their preferences regarding group composition [25, 29, 35-37]. Although having the opportunity to share with and learn from others was considered valuable, for some participants the quality of those interactions was contingent upon their perceived similarity to, and ability to identify with, the rest of the group [25, 29, 37]. For example, cancer survivors who attended groups comprising people with different long-term conditions talked about how they struggled to bond with fellow participants whom they perceived not to share the same problems as them [25]. Even within cancer-only groups, factors such as age [29, 37], stage of illness [25] and type of treatment received [29] sometimes impinged on participants' sense of connection with each other. In Beckmann and colleagues' study [25], for example, several participants whom they perceived to have a worse prognosis. A participant in Cimprich and colleagues' [29] study recommended having a closer "match" between group members in order to circumvent such discomfort. Conversely, participants in other studies responded well to having a mix of people in their groups. For example, some commented favourably on the presence of people who had completed their treatment several years previously, as they were a source of hope and inspiration [35, 36], with one participant suggesting that "future classes would benefit by planning for such diversity" [36, p. 767].

Preferences about intervention delivery

Participants differed in their preferences for the mode and timing of intervention delivery [25, 29, 33-36]. With respect to the most appropriate point in the cancer trajectory at which to offer a self-management intervention, some believed that either before [33-35] or during treatment [34] would be most helpful, as people would be apprehensive at this time [33] and in need of support [34]. Conversely, participants in Beckmann and colleagues' [25] study felt that the information and skills provided by their intervention would be less beneficial for individuals

who were still in the 'acute' treatment phase compared with those who were recovering and beginning to move on with their lives. Participants who had completed their primary treatment some time ago appreciated the social aspect of their interventions but felt that the support and education provided would have been more beneficial "at the front end of survivorship" [36, p. 767], when they were less equipped for what lay ahead of them [25, 35, 36]. Conflicting views on mode of delivery were also observed. For example, although the majority of participants in Kilbourn and colleagues' [33] study were in favour of telephone counselling, some were dissatisfied with its impersonal nature and suggested that meeting their facilitator in person prior to commencement would help them to develop a rapport and improve their overall experience. Similarly, participants in Cimprich and colleagues' [29] study expressed a preference for face-to-face group sessions over their telephone-based contacts with facilitators.

Preferences about intervention content

Participants' observations and suggestions regarding intervention content indicated that it needed to be tailored to their needs as cancer survivors in order to engage them fully [25, 28, 34-36]. In Beckmann and colleagues' study, for example, the most common reason participants gave for not being completely satisfied with the generic Chronic Disease Self-Management Programme [CDSMP: 38] was that it was "not detailed or specific enough" [25, p. 40] to cancer survivorship. Even those who received a version of the CDSMP adapted for cancer survivors requested more cancer-specific content [36]. This desire for specificity extended to the materials used in interventions [35, 36]. For example, testicular cancer survivors from England who participated in Martin and colleagues' [35] study stated that the cancer survivors' stories they were provided with as part of their intervention were "too American" (p. E20) and requested examples they could relate to more easily. In several studies, participants identified additional cancer-related topics they would have liked to have been covered in their interventions, including post-operative care [28], fatigue [36], fear of recurrence [34, 36], cancer-specific dietary advice, complementary therapies, dealing with mortality [25] and the death of fellow participants [34], and coping with late and long-term side-effects of treatment [33, 36].

Personal obstacles to engagement

Participants across studies described a number of personal obstacles to engaging fully with self-management interventions [25-27, 31-33, 35-37]. Firstly, some survivors indicated that they were not especially motivated to engage with their interventions as they felt that they received enough support from family and friends [27, 33] or were already managing the impact of their illness successfully [27, 32, 33]. Others felt apprehensive about

discussing their personal experiences of cancer [25, 27, 31], especially in a group setting [26, 35, 37]. Some participants found discussion of topics such as death and dying [26, 37] particularly anxiety-provoking. Participants in Fitch and colleagues' study [31] asked for greater sensitivity regarding how challenging it could be for cancer survivors to relive their experiences. In Martin and colleagues' [35] study, participants suggested allowing the opportunity to submit questions to the facilitator anonymously for those who were uncomfortable speaking to the group. Practical issues that participants faced such as hearing difficulties [27], treatment-related side-effects, competing activities (e.g., treatment sessions) [33] and travel-related restrictions (e.g., parking, commute time) [36] also curtailed their engagement.

Discussion

To the authors' knowledge, this is the first meta-synthesis to explore cancer survivors' views and experiences of engaging with adjustment-focused self-management interventions. The findings offer further evidence for the benefits of providing education and training in self-management to cancer survivors [8, 9], including gaining support, becoming empowered, and moving beyond cancer. Importantly, we have also identified potential barriers to survivors' engagement with such interventions, which relate to their preferences regarding various aspects of intervention design and personal obstacles such as low perceived need and reticence to talk about cancer experiences. Addressing these in the development and marketing of self-management interventions targeting this population could help increase uptake and improve completion rates.

Overall, our findings provide qualitative support for the effectiveness of adjustment-focused self-management interventions in enhancing important outcomes such as self-efficacy, mood and quality of life among cancer survivors [8, 20]. Participants' perceived benefits of engaging with such interventions align closely with Foster and Fenlon's [13] conceptual framework on recovery of health and wellbeing in cancer survivorship. This framework postulates that sources of self-management support (i.e., healthcare workers, family and friends, accessing information, networking with other cancer survivors) and personal strategies for self-managing psychological, physical, and social difficulties facilitate the resolution of problems associated with cancer survivorship, thereby enhancing wellbeing. The findings of the present meta-synthesis suggest that engaging with an adjustment-focused self-management intervention may facilitate the process of adaptation through the provision of additional emotional and informational support as well as training in specific self-management skills. Focusing exclusively on outcomes such as reductions in healthcare costs in evaluations of self-management interventions may disregard their effectiveness in yielding other such benefits in participants' lives [39]. The selection of outcome measures in future trials of interventions should thus reflect what matters to cancer survivors themselves as well as broader economic concerns. Furthermore, including qualitative as well as quantitative components in future evaluations may allow us to discover not only *if*, but also *how*, such interventions and their 'active ingredients' work [10, 40].

Despite these benefits, participants held conflicting views on various intervention characteristics, which appeared to pose potential barriers to their engagement. Indeed, our findings provide further evidence for the limitations of a 'one size fits all' approach to self-management support [10, 40, 41], and demonstrate the need for tailoring the design, content and delivery of self-management interventions to the needs and preferences of specific groups of cancer survivors in order to optimise their 'reach'. Firstly, although participants' views on the value of sharing their experiences with fellow cancer survivors lends further support to the benefits of peer support in this cohort [42, 43], perceived similarity with others (e.g., in terms of age or time since diagnosis) was a key influence on the acceptability of group-based interventions. This corresponds with findings in other long-term conditions [44], and indicates that greater attention should be paid to the influence of group composition and dynamics.

Secondly, conflicting views on the timing of adjustment-focused self-management interventions for cancer survivors as well as their mode of delivery suggest that flexibility and choice is required to optimise engagement. Given that cancer survivors' needs change across the cancer trajectory [45], access to tailored support may need to be available from diagnosis throughout survivorship, for whenever survivors need or are ready to avail of these. Indeed, low perceived need for participation in such an intervention represented a personal obstacle to engagement; the timely availability of the intervention will critically impact such decision making. With regard to mode of delivery, face-to-face group-based intervention designs were the most commonly represented in the present meta-synthesis; little qualitative data was available on perceptions of other delivery modes, although initial evidence suggests that telephone-based interventions were felt to be impersonal [29, 33]. Many cancer survivors viewed the opportunity for gaining support as a benefit of taking part in self-management interventions, yet some expressed discomfort in sharing their experiences of cancer with others, particularly in a group setting. Participants in individually-delivered interventions appeared to be highly satisfied overall with their experiences, which was aided by facilitators' depth of knowledge regarding cancer survivorship and ability to foster a close therapeutic relationship. This suggests that well-trained, empathetic facilitators may be able compensate for the absence of peer interaction and provide similar benefits to group-based interventions in terms of emotional and informational support. Given the considerable costs and personnel requirements involved, however, alternative means of delivering self-management support may need to be explored. Given the apparent benefits of eHealth and mHealth

interventions in terms of accessibility, health service burden and cost-effectiveness [46], further qualitative research should examine the feasibility and acceptability of online self-management interventions in this cohort; preliminary findings are promising [47].

Thirdly, cancer survivors were keen to receive information specific to their condition, indicating the importance of specificity in intervention content and suggesting that generic self-management programmes might not satisfy their needs. Furthermore, participants across studies highlighted additional issues they would like addressed, suggesting that interventions should allow scope in their design for responding to participants' individual concerns. This could be achieved through the inclusion of open question and answer sessions, for example, or by scheduling sessions in which participants nominate topics to be covered.

Finally, it was found that some participants did not engage with self-management interventions, as they felt that they were receiving enough support from family and friends or were successfully managing the impact of their illness themselves. This points towards the risk inherent in predominant orthodoxies around self-management of assuming that cancer survivors' existing self-management strategies are 'maladaptive' and require external intervention to be deemed 'effective' [48]. Indeed, many individuals with long-term illness develop their own strategies that enable them to manage the consequences of their illness capably on their own, and it should not be assumed that all cancer survivors need to attend, or will necessarily benefit from, formal self-management interventions. The autonomy of people with long-term illness to determine how they should live their own lives must be respected, regardless of any prescribed notions of what constitutes adaptive behaviour [49]. Moreover, it should be acknowledged that responsibility for cancer survivors' wellbeing does not start and end with the individual. Self-management is to a large extent dependent on the supports, work, and skills that are mobilized in the process of self-care, especially when it takes place within the home, and is not always possible or appropriate. For example, significant functional disability may inhibit people's ability to self-manage and necessitate their reliance on family members in order to successfully deal with long-term illness and its consequences. Furthermore, self-management occurs in a broader social, political and economic context, and the experience of illness is "embedded in family, community and societal conditions that shape and influence – and may constrain – the choices people make, or can make" [50, p. 15]. For example, women tend to carry out the majority of unpaid work in the home (e.g., housework, childcare), which significantly constrains their available free time [51]; this could negatively affect their ability not only to attend such interventions but also to self-manage the consequences of their illness effectively. This may be further complicated by the association of gender with other factors such as age, income, and geographic location, all of which can make it more difficult for people to successfully selfmanage. Focusing exclusively on change at an individual level runs the risk of 'blaming the victim' and ignoring larger socio-economic inequalities [52].

Strengths and limitations

A number of factors relating to the literature on self-management posed difficulties in conducting this metasynthesis. Firstly, the lack of a 'gold standard' definition for self-management [1] and divergence in the literature around what constitutes a self-management intervention made the study selection process difficult; this was further exacerbated by the fact that interventions promoting self-management are often not referred to explicitly as such [3]. Another factor that hindered our literature search was the poor labelling of qualitative studies in research databases [53]. This was compounded in the present meta-synthesis, as qualitative research on selfmanagement interventions often comprised part of a larger evaluation and therefore did not always feature in the keywords. We overcame these issues by keeping our search terms relating to self-management broad and incorporating a comprehensive qualitative filter combining controlled vocabulary and free-text search terms, resulting in the identification of over 5,000 studies for screening.

Despite the large number of studies screened, only thirteen met our eligibility criteria. Certain shortcomings of the included studies placed limits on the conclusions we could draw from our synthesis. For example, few reported participants' education levels and cultural background, factors considered to have substantial influence on self-management intervention uptake and effectiveness [54, 55]. It should also be acknowledged that participants in these self-management interventions were inevitably self-recruited to a certain extent, and their views may not be representative of the entire target population. Indeed, previous research indicates that individuals who take part in self-management interventions tend to be younger, white, and married, and those who complete their interventions tend to be employed and have fewer depressive symptoms at baseline than those who do not [20]. Our findings should therefore be interpreted with caution, as it is possible that individuals with less positive experiences of the included interventions chose not to participate in the qualitative component of the research or dropped out at an earlier stage. Finally, the majority of included studies were conducted in developed countries, and the constructs we derived from our synthesis may not be applicable outside of this context. Further qualitative research with more diverse groups is required to explore the influence of factors such as culture and education on cancer survivors' experiences of engaging with self-management interventions.

Implications for practice

Our findings provide further evidence for the need to develop evidence-based self-management interventions that take into account the specific needs and preferences of the specific target population in their design, delivery and selection of measures by which their effectiveness is evaluated. However, this must be balanced against more practical concerns such as cost-effectiveness, availability of resources and demand for services. It is also critical that self-management interventions are compatible with existing resource infrastructure so that they can be integrated into existing clinical services [56]. Guidelines on the development of self-management interventions for cancer survivors recommend engaging patients and other stakeholders in an iterative process of design, testing and feedback to ensure interventions are effective, clinically feasible, and sustainable [20, 56]. The views expressed in the present meta-synthesis about intervention design, delivery and content reinforce the need to take such a 'bottom-up' approach.

Our findings also highlight potential barriers to engagement that should be taken into account in the marketing of self-management interventions. Low uptake of psychosocial or supportive care services is frequently observed among cancer survivors, who often opt to manage their own distress [56]. Careful consideration of how self-management interventions are 'pitched' to cancer survivors is required to overcome such barriers, where possible. For example, a recent synthesis of research on self-management support for men with long-term conditions suggested that marketing interventions as practical and solution-focused may appeal to a broader base [3]. Process evaluations of self-management interventions should seek the views of individuals who choose not to participate in addition to those who do so that we can learn more about potential barriers to engagement for 'hard-to reach' groups and adapt interventions and recruitment strategies accordingly [57, 58].

Conclusion

Despite growing calls for the development of self-management support for cancer survivors, the existing evidence base has not yet provided much insight into how best to design and deliver interventions to address their distinct needs and preferences. This meta-synthesis found that participation in adjustment-focused self-management interventions was highly valued by many cancer survivors. Engaging with such interventions offered the opportunity to gain support independent of loved ones in an open, non-judgemental environment, to become empowered by enhancing their knowledge and skills and regaining confidence and control, and to move beyond cancer by accepting their illness experiences, reprioritising their goals and adopting a more positive outlook. Potential barriers to engagement, including issues around intervention design, content and delivery and personal obstacles such as low perceived need and reticence to discuss personal experiences of cancer, were also identified. The findings point towards some key considerations in relation to the development of future self-management interventions for cancer survivors, which may be important in helping to optimize their acceptability.

Compliance with ethical standards

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Ethical approval: This article does not contain any studies with human participants performed by any of the authors.

Limiters:

- English language
- Humans
- Publication date 1990-current
- 1. exp neoplasms/
- 2. (neoplas* or cancer* or tumo?r* or carcino* or malignan* or adenocarcinoma* or lymphoma* or

leuk?emia* or onco* or metastat*).tw

- 3. 1 or 2
- 4. exp Self Care/
- 5. (self adj (care or help or manag* or direct* or monitor* or efficacy)).tw
- 6. (selfcare or selfhelp or selfmanag* or selfdirect* or selfmonitor* or selfefficacy).tw
- 7. ((symptom or stress) adj1 manag*).tw
- 8. Patient Education as Topic/
- 9. exp Consumer Participation/
- 10. ((health or patient*) adj2 (educat* or information)).tw
- 11. ((patient* or consumer*) adj (focus* or cent* or part*)).tw
- 12. exp Behavior Therapy/
- 13. exp Cognitive Therapy/
- 14. (cbt).tw
- 15. exp Adaptation, Psychological/
- 16. ((psychologic* or behavio?r*) adj1 (adjust* or adapt*)).tw
- 17. Social Support/
- 18. Self-Help Groups/
- 19. (peer or patient or emotional or social or psychosocial) adj1 (support or group*).tw
- 20. (cope* or coping or psychoeducation*).tw
- 21. Holistic Health/
- 22. (holistic or wholistic).tw
- 23. Self Efficacy/
- 24. "Power (Psychology)"/

25. (empower*).tw

26. ((behavio?r* or cognitive or psychological or psychosocial or interpersonal or relaxation) adj3 (therap* or program* or train* or instruct* or workshop)).tw

27. 4-26

28. Interviews as topic/ or interview/ or focus groups/ or narration/ or exp qualitative research/

29. (qualitative or ethnograph* or phenomenol* or ethnonurs* or grounded theor* or purposive sample or hermeneutic* or heuristic* or semiotics or lived experience* or narrative* or life experience* or cluster sample or action research or observational method or content analysis or thematic analysis or constant comparative method or field stud* or fieldwork or field work or key informant or theoretical sample or discourse analysis or focus group* or interview* or discussion* or ethnological research or ethnomethodolog* or mixed model* or mixed design* or multiple method* or multimethod* or triangulat*).tw

30. 28 or 29

31. Intervention Studies/ or evaluation studies/ or evaluation studies as topic/ or program evaluation/ or validation studies as topic/ or pilot projects/ or feasibility studies/

32. (pre- adj5 post-).tw

33. (pretest adj5 posttest).tw

34. (program* adj6 evaluat*).tw

35. (effectiveness or intervention or pilot or feasibility or process evaluation).tw

36. 31-35

37. 3 and 27 and 30 and 36

References

1. Barlow J, Wright C, Sheasby J, Turner A, Hainsworth J. Self-management approaches for people with chronic conditions: a review. Patient Educ Couns. 2002;48(2):177-87.

 Boger E, Ellis J, Latter S, Foster C, Kennedy A, Jones F, et al. Self-management and self-management support outcomes: a systematic review and mixed research synthesis of stakeholder views. PloS one.
 2015;10(7):e0130990.

3. Galdas P, Darwin Z, Kidd L, Blickem C, McPherson K, Hunt K, et al. The accessibility and acceptability of self-management support interventions for men with long term conditions: a systematic review and meta-synthesis of qualitative studies. BMC Public Health. 2014;14:1230.

4. Lorig KR, Holman HR. Self-management education: history, definition, outcomes, and mechanisms. Ann Behav Med. 2003;26(1):1-7.

5. Warsi A, Wang PS, LaValley MP, Avorn J, Solomon DH. Self-management education programs in chronic disease: a systematic review and methodological critique of the literature. Arch Intern Med. 2004;164(15):16419.

6. Chodosh J, Morton SC, Mojica W, Maglione M, Suttorp MJ, Hilton L, et al. Meta-analysis: chronic disease self-management programs for older adults. Ann Intern Med. 2005;143(6):427-38.

7. Panagioti M, Richardson G, Small N, Murray E, Rogers A, Kennedy A, et al. Self-management support interventions to reduce health care utilisation without compromising outcomes: a systematic review and meta-analysis. BMC Health Serv Res. 2014;14(1):356.

8. McCorkle R, Ercolano E, Lazenby M, Schulman-Green D, Schilling LS, Lorig K, et al. Self-management: enabling and empowering patients living with cancer as a chronic illness. CA-Cancer J Clin. 2011;61(1):50-62.

9. Gao W, Yuan C. Self-management programme for cancer patients: a literature review. Int Nurs Rev. 2011;58(3):288-95.

10. Trappenburg J, Jonkman N, Jaarsma T, van Os-Medendorp H, Kort H, de Wit N, et al. Self-management: one size does not fit all. Patient Educ Couns. 2013;92(1):134-7.

11. Taylor D, Bury M. Chronic illness, expert patients and care transition. Sociol Health Illn. 2007;29(1):27-45.

12. Department of Health, Macmillan Cancer Support and National Health Service Improvement. The National Cancer Survivorship Initiative Vision. London: Department of Health; 2010.

13. Foster C, Fenlon D. Recovery and self-management support following primary cancer treatment. Br J Cancer. 2011;105:S21-8.

14. Barnett-Page E, Thomas J. Methods for the synthesis of qualitative research: a critical review. BMC Med Res Methodol. 2009;9:59,2288-9-59.

15. Noblit GW, Hare RD. Meta-ethnography: synthesizing qualitative studies. Newbury Park: Sage; 1988.

16. Britten N, Campbell R, Pope C, Donovan J, Morgan M, Pill R. Using meta ethnography to synthesise qualitative research: a worked example. J Health Serv Res Policy. 2002;7(4):209-15.

17. Atkins S, Lewin S, Smith H, Engel M, Fretheim A, Volmink J. Conducting a meta-ethnography of qualitative literature: lessons learnt. BMC Med Res Methodol. 2008;8:21.

18. Tong A, Flemming K, McInnes E, Oliver S, Craig J. Enhancing transparency in reporting the synthesis of qualitative research: ENTREQ. BMC Med Res Methodol. 2012;12:181,2288-12-181.

19. Kroon FPB, van der Burg LRA, Buchbinder R, Osborne RH, Johnston RV, Pitt V. Self-management education programmes for osteoarthritis. Cochrane Database Syst Rev. 2014;1:CD008963.

20. Davies N, Batehup L. Self-management support for cancer survivors: Guidance for developing interventions. An update of the evidence. Macmillan Cancer Support; 2010.

21. Critical Appraisal Skills Programme (CASP). CASP Checklists. Oxford: CASP; 2014.

22. Duggleby W, Holtslander L, Kylma J, Duncan V, Hammond C, Williams A. Metasynthesis of the hope experience of family caregivers of persons with chronic illness. Qual Health Res. 2010;20(2):148-58.

23. Malpass A, Shaw A, Sharp D, Walter F, Feder G, Ridd M, et al. "Medication career" or "Moral career"? The two sides of managing antidepressants: A meta-ethnography of patients' experience of antidepressants. Soc Sci Med. 2009;68(1):154-68.

24. Jackson LJ, Roberts TE. Conceptualising quality of life outcomes for women participating in testing for sexually transmitted infections: A systematic review and meta-synthesis of qualitative research. Soc Sci Med. 2015;143:162-70.

25. Beckmann K, Strassnick K, Abell L, Hermann J, Oakley B. Is a chronic disease self-management program beneficial to people affected by cancer? Aust J Prim Health. 2007;13(1):36-44.

26. Bottomley A. Group cognitive behavioural therapy with cancer patients: the views of women participants on a short-term intervention. Eur J Cancer Care. 1998;7(1):23-30.

27. Chambers SK, Morris BA, Clutton S, Foley E, Giles L, Schofield P, et al. Psychological wellness and health-related stigma: a pilot study of an acceptance-focused cognitive behavioural intervention for people with lung cancer. Eur J Cancer Care. 2015;24(1):60-70.

28. Chow KM, Chan CW, Chan JC, Choi KK, Siu KY. A feasibility study of a psychoeducational intervention program for gynecological cancer patients. Eur J Oncol Nurs. 2014;18(4):385-92.

29. Cimprich B, Janz NK, Northouse L, Wren PA, Given B, Given CW. Taking CHARGE: a self-management program for women following breast cancer treatment. Psychooncology. 2005;14(9):704-17.

30. Watts S, Edgar L. Nucare, a coping skills training intervention for oncology patients and families: participants' motivations and expectations. Can Oncol Nurs J. 2004;14(2):84-95.

31. Fitch M, McAndrew A, Magee S, Turner F, Ross E. Evaluation of a workshop for survivors: Picking Up the Pieces. Can Oncol Nurs J. 2011;21(3):140-4.

32. Gray NM, Allan JL, Murchie P, Browne S, Hall S, Hubbard G, et al. Developing a community-based intervention to improve quality of life in people with colorectal cancer: a complex intervention development study. BMJ Open. 2013;3(4):e002596.

33. Kilbourn KM, Anderson D, Costenaro A, Lusczakoski K, Borrayo E, Raben D. Feasibility of EASE: a psychosocial program to improve symptom management in head and neck cancer patients. Support Care Cancer. 2013;21(1):191-200.

34. Loh SY, Ong L, Ng LL, Chew SL, Lee SY, Boniface G. Qualitative experiences of breast cancer survivors on a self-management intervention: 2-year post-intervention. Asian Pac J Cancer Prev. 2011;12(6):1489-95.

35. Martin F, Turner A, Bourne C, Batehup L. Development and qualitative evaluation of a self-management workshop for testicular cancer survivor-initiated follow-up. Oncol Nurs Forum. 2013;40(1):E14-23.

36. Risendal B, Dwyer A, Seidel R, Lorig K, Katzenmeyer C, Coombs L, et al. Adaptation of the Chronic Disease Self-Management Program for cancer survivors: feasibility, acceptability, and lessons for implementation. J Cancer Educ. 2014;29(4):762-71.

37. Thompson J, Coleman R, Colwell B, Freeman J, Greenfield D, Holmes K, et al. Preparing breast cancer patients for survivorship (PREP) - a pilot study of a patient-centred supportive group visit intervention. Eur J Oncol Nurs. 2014;18(1):10-6.

38. Lorig KR, Sobel DS, Stewart AL, Brown Jr BW, Bandura A, Ritter P, et al. Evidence suggesting that a chronic disease self-management program can improve health status while reducing hospitalization: a randomized trial. Med Care. 1999;37(1):5-14.

39. Wilson PM. The UK Expert Patients Program: lessons learned and implications for cancer survivors' selfcare support programs. J Cancer Surviv. 2008;2(1):45-52.

40. Salander P. Why doesn't mind matter when we are to find out what is helpful? Psychooncology. 2011;20(4):441-2.

41. Taylor SJC, Pinnock H, Epiphaniou E, Pearce G, Parke HL, Schwappach A, et al. A rapid synthesis of the evidence on interventions supporting self-management for people with long-term conditions: PRISMS – Practical systematic Review of Self-Management Support for long-term conditions. NIHR HS & DR 2014;2(53).

42. Campbell HS, Phaneuf MR, Deane K. Cancer peer support programs—do they work? Patient Educ Couns. 2004;55(1):3-15.

43. Ussher J, Kirsten L, Butow P, Sandoval M. What do cancer support groups provide which other supportive relationships do not? The experience of peer support groups for people with cancer. Soc Sci Med. 2006;62(10):2565-76.

44. Embuldeniya G, Veinot P, Bell E, Bell M, Nyhof-Young J, Sale JEM, et al. The experience and impact of chronic disease peer support interventions: a qualitative synthesis. Patient Educ Couns. 2013;92(1):3-12.

45. Harrison JD, Young JM, Price MA, Butow PN, Solomon MJ. What are the unmet supportive care needs of people with cancer? A systematic review. Support Care Cancer. 2009;17(8):1117-28.

46. Ross J, Stevenson F, Lau R, Murray E. Exploring the challenges of implementing e-health: a protocol for an update of a systematic review of reviews. BMJ Open. 2015;5(4):e006773,2014-006773.

47. Jansen F, van Uden-Kraan CF, van Zwieten V, Witte BI, Verdonck-de Leeuw IM. Cancer survivors' perceived need for supportive care and their attitude towards self-management and eHealth. Support Care Cancer. 2015;23(6):1679-88.

48. Kendall E, Rogers A. Extinguishing the social?: state sponsored self-care policy and the Chronic Disease Self-management Programme. Disabil Soc. 2007;22(2):129-43.

49. Lawn S, McMillan J, Pulvirenti M. Chronic condition self-management: expectations of responsibility. Patient Ed Couns. 2011;84(2):e5-8.

50. Kendall PR. Investing in prevention: improving health and creating sustainability: the Provincial Officer's special report. Victoria, BC: Office of the Provincial Health Officer. 2010.

51. Milkie MA, Raley SB, Bianchi SM. Taking on the second shift: time allocations and time pressures of US parents with preschoolers. Soc Forces. 2009;88(2):487-517.

52. Thirsk LM, Clark AM. What is the 'self'in chronic disease self-management?. Int J Nurs Studies. 2014;51(5):691-3.

53. Shaw RL, Booth A, Sutton AJ, Miller T, Smith JA, Young B, et al. Finding qualitative research: an evaluation of search strategies. BMC Med Res Methodol. 2004;4:5.

54. Swerissen H, Belfrage J, Weeks A, Jordan L, Walker C, Furler J, et al. A randomised control trial of a selfmanagement program for people with a chronic illness from Vietnamese, Chinese, Italian and Greek backgrounds. Patient Educ Couns. 2006;64(1):360-8.

55. Bosma H, Lamers F, Jonkers CC, van Eijk JT. Disparities by education level in outcomes of a selfmanagement intervention: the DELTA trial in The Netherlands. Psych Serv. 2011;62(7):793-5. 56. Schofield P, Chambers S. Effective, clinically feasible and sustainable: Key design features of psychoeducational and supportive care interventions to promote individualised self-management in cancer care. Acta Oncol. 2015;54(5):805-12.

57. Moore GF, Audrey S, Barker M, Bond L, Bonell C, Hardeman W, et al. Process evaluation of complex interventions: Medical Research Council guidance. BMJ. 2015;350:h1258.

58. Craig P, Dieppe P, Macintyre S, Michie S, Nazareth I, Petticrew M, et al. Developing and evaluating complex interventions: the new Medical Research Council guidance. BMJ. 2008;337:a1655.



Figure 1. Flow diagram of article selection process

Table 1. Overview of included studies.

First author	Country	Recruitment setting	Sample (qualitative	Data collection	Analytical	Aim (qualitative	Methodological
(year of	-		component)	(qualitative	approach	component)	quality using
publication)			_	component)			CASP (/24)
Beckmann	Australia	Local media,	29 cancer patients	Semi-structured	Constant	To determine whether	15
(2007)		support group	(20 participated in	interview	comparative	people affected by cancer	
		networks	cancer-specific	completed via	method	and their carers found the	
			programme, 9	telephone 4-6		programme useful in	
			participated in	weeks post-		addressing some of the	
			mixed-condition	intervention		longer-term impacts of the	
			programme), 11			disease; and whether it was	
			carers and one			more beneficial to offer the	
			person with another			programme as one	
			chronic condition			exclusively for people	
						diagnosed with cancer (and	
			Characteristics for			their carers) or to refer	
			participants who			people affected by cancer	
			were cancer			to a general programme	
			patients (n=29):			incorporating participants	
						with various chronic	
			Type of cancer:			diseases.	
			Breast (n=8);				
			myeloma/leukaemia				
			(n=5); bowel (n=4);				
			prostate (n=3);				
			ovarian (n=2); renal				
			(n=2); other (n=4);				
			not reported (n=1).				
			Currently receiving				
			treatment: Yes				
			(n=9); No (n=20).				
			Time since				
			diagnosis: <12				
			months (n=8); 1-4				
			years (n=14); 5+				
			years (n=4);				
			unknown (n=3).				

Bottomlev	UK	Two district general	7 newly diagnosed	Semi-structured	Thematic analysis	To examine and	17
(1998)	_	hospitals	cancer patients	interview		qualitatively report on the	
(/			identified as	within 3 weeks		experiences of participants	
			psychologically	of completing		in a group cognitive	
			distressed (HADS >	intervention		behavioural therapy	
			10 for anxiety or $>$			(GCBT) programme in	
			8 for depression)			order to give health	
						workers the patients'	
			Age: $M = 50.4$			perspectives on the most	
			years. Gender:			useful components of the	
			female (n=7).			programme to inform the	
			Marital status:			development and	
			married and living			evaluation of future	
			with partner (n=5);			programmes.	
			widowed (n=2).				
			Social class (using				
			OPCS 1984				
			classification				
			method): 1 (n=1); 3				
			or 4 (n=6). Type of				
			cancer: breast				
			(n=6); ovarian				
			(n=1). Disease				
			stage: local disease				
			(n=4); local disease				
			and regional spread				
			(n=3). Treatment				
			received: surgery				
			and chemotherapy				
			(n=6); radiotherapy				
			(n=2); prescribed				
			Tamoxifen (n=5).				
Chambers	Australia	Local cancer	31 lung cancer	Semi-structured	Thematic analysis	To test the acceptability of	17
(2015)		support networks	survivors (22	interview at 3-	(based on an	an acceptance-focused	
			participants, 9 non-	month follow-	interpretative	cognitive behavioural	
			participants)	up	phenomenological	intervention targeting	
					framework)	stigma in people with lung	
			Characteristics for			cancer – to examine how	
			subset of			helpful the intervention	

	-	1					
			working full-time (36%); working part-time (32%); unemployed/retired (32%). Family income: <\$30,000 (8%); \$30,000- \$69,000 (40%); \$70,000+ (52%). Disease stage: Stage II (52%). Treatment: combination of lumpectomy, radiation therapy and adjuvant chemotherapy (46%).				
(2004)	Canadia	support	patients and one	questionnaire	questionnaire: not	participation in a	11
		organisation	close friend of a	(including	reported	psychoeducational coping	
			patient	open-ended questions)	Focus group:	skills training program, called Nucare – to examine	
			Characteristics not	completed via	content analysis	the benefits of, and the	
			reported	telephone 2-4 months post-		barriers to, the helpfulness of the intervention.	
			Characteristics for	intervention			
			subset of participants who	(n=20)			
			took part in focus	Focus group 3-			
			group (n=10):	5 months post-			
			Gender: male	(n=10)			
			(n=2); female	/			
			(n=8).				12
Fitch (2011)	Canada	Ovarian Cancer	97 women who had	Evaluation	Evaluation	I o describe women's	13
(2011)		Canada	been diagnosed	survey	survey: content	perspectives about the	
		publications and	with and treated for	(including	itom open-ended	workshop and determine	
			ovarian cancer, 6	open-enaea	items was collated	now mey made use of the	

		stakeholder mailings	caregivers/family members Age: 27-74 years (M = 54 years, median = 55 years). Type of cancer (cancer survivors only): ovarian (n=83), other (n=14). Time since treatment (cancer survivors only): 0- 300 months (M = 23 months). Characteristics for subset of participants who took part in interviews (n=15) not reported	questions) self- completed at end of workshop (n=103) Semi-structured interview completed via telephone 6 months post- intervention (n=15)	and organized on the basis of similarities in perspectives Interviews: content analysis	information they received and skills they developed – to examine women's recollections about the workshop experience, what had been inspiring about the workshop, what had been challenging in attending the workshop, how the workshop learning had been applied, and suggestions for improving any future workshops.	
Gray (2013)	UK	Colorectal oncology clinics	12 newly diagnosed colorectal cancer patients Characteristics for subset of participants who took part in interviews not reported	Semi-structured interview 4-8 weeks after home visit	Not reported	To explore patients' experiences of and attitudes towards the intervention.	10
Kilbourn (2013)	USA	Radiation oncology clinic	11 newly diagnosed head and neck cancer patients undergoing treatment including radiotherapy	Process evaluation interview completed via telephone 1 month post-	Constant comparative method	To test the feasibility and acceptability of the intervention and provide a preliminary assessment of the intervention benefits among participants – questions regarding	13

	· · · · ·
Characteristics for intervention (n recruitment procedures,	
subset of = 11) intervention process	
participants who (timing, content, and use of	
took part in Exit interview telephone), overall	
interviews not $(n = 8)$ impressions of the	
reported program, and suggestions	
for improvement.	
Loh (2011)MalaysiaNot reported21 breast cancerFocus group 2Thematic analysisTo explore women's18	
survivors who had years post-	
participated in intervention experiences after, attending	
programme when a self-management	
newly diagnosed programme for breast	
cancer survivors, and	
Age: 30-64 years whether or not it had any	
(M = 50.67 years). bearing on their post-	
Education level:	
Grade 6-tertiary	
education.	
Employment status:	
employed outside	
home (n=14):	
housewife (n=5):	
retired (n=2).	
Marital status:	
married (n=16).	
divorced $(n=1)$:	
$\frac{d}{d} = \frac{d}{d}$	
Ethnicity: Chinese	
(n=17): Malay	
(n-2): Indian $(n-2)$	
Body mass index:	
17-31 (M - 22 1)	
Martin IIK Cancer services at a 6 testicular cancer Semi-structured Framework To evolore the evolution of 17	
(2013) [general hospital] survivors who had interview analysis of participation in a	
completed primary completed via	
treatment 5-12 telephone 6	
months prior to the weeks post	
intervention intervention on process evaluation	
concerning the most and	

			Age: 29-45 years			least helpful aspects of the	
			(M - 35)			workshop parcoptions of	
			(101 - 55).			workshop, perceptions of	
						relevance, and userumess	
						of activities and suggested	
				_		changes.	
Risendal	USA	Community,	113 individuals	Impact	Thematic analysis	To evaluate the feasibility	17
(2014)		healthcare and	aged over 21 years	evaluation		and acceptability of the	
		regional/community	diagnosed with	questionnaire		delivery of an adaptation of	
		cancer centres	cancer that required	(including		the Chronic Disease Self-	
			radiation, surgical	open-ended		Management Program	
			or adjuvant	questions) self-		(Cancer Thriving and	
			chemotherapy who	completed 6		Surviving) to cancer	
			were not in active	weeks post-		survivors.	
			treatment	intervention			
			Characteristics for				
			subset of				
			participants who				
			completed open				
			anded questions not				
			ended questions not				
(70)	1117			0 1	F 1 <i>d</i>		10
Thompson	UK	Not reported	31 Stage I-III breast	Semi-structured	Evaluation	To evaluate an intervention	19
(2014)			cancer survivors at	course	questionnaire:	which supports the	
			least 2 years post-	evaluation	thematic analysis	transition from cancer	
			diagnosis in routine	questionnaire		patient to cancer survivor	
			hospital follow-up	(including	Interviews:	for breast cancer patients	
			without	open-ended	framework	being discharged to	
			signs/symptoms of	questions) self-	analysis	primary care.	
			recurrence	completed at			
				end of final			
			Characteristics not	session/returned			
			reported	by post within			
			1	two weeks of			
			Characteristics for	course ending			
			subset of	(n=31)			
			participants who	(01)			
			took part in	Semi-structured			
			interviews (n-0).	interview			
				within one			
				within one		1	

	Age: 46-75 years	month of		
	(M = 58 years).	completing		
	Time since	course (n=9)		
	diagnosis: 3.3-9.5			
	years ($M = 5.1$			
	years)			

Table 2. Description of interventions in included studies.

First author	Intervention	Intended audience	Mode of	Intervention	Format	Details
(year of			delivery	facilitator(s)		
publication)						
Beckmann	Chronic Disease	People directly	Group-	Two trained	Six	Programme that aims to reinforce knowledge
(2007)	Self-Management	affected by cancer	based,	facilitators,	weekly	and skills around managing physical
	Programme	and their carers	face-to-	one of	sessions	symptoms, continuing with usual daily
	(CDSMP)		face	whom was a		activities, and coping with emotional
				lay person		demands of a chronic condition. Topics
				who		covered include dealing with anger, fear,
				experienced		frustration and depression, relaxation and
				the		cognitive symptom management,
				condition		fitness/exercise, fatigue, medications,
				themselves		communication, working with health care
						professionals, problem solving and making
						action plans.
Bottomley	Group cognitive	Newly diagnosed	Group-	A research	Eight 90-	Highly structured intervention based closely
(1998)	behavioural	cancer patients	based,	psychologist	minute	on CBT approach of Adjuvant Psychological
	therapy (GCBT)	identified as	face-to-	and a	weekly	Therapy. It has a cancer specific orientation
	programme	psychologically	face	counsellor	sessions	and includes homework review and setting,
		distressed (HADS				lectures, feedback, relaxation. Sessions 1-3
		≥ 10 for anxiety				focus on introductions and teaching
		or ≥ 8 for				behavioural exercises (e.g., relaxation,
		depression)				activity scheduling). Session 4 focuses on the
						CBT model and concepts. Sessions 5-8 deal
						with challenging dysfunctional thinking and
						learning coping skills. Booklets and leaflets
						relating to cancer and CBT and relaxation
~	~	-			~.	tapes are distributed to participants.
Chambers	Psychological	Lung cancer	Individual,	Not reported	S1X	Acceptance-focused cognitive behavioural
(2015)	Wellness	survivors	telephone-		weekly	intervention that includes psycho-education,
	intervention		delivered		50-55	skills in stress reduction, problem-solving,
					minute	cognitive challenging and enhancing
					sessions	relationship support. Participants receive tip
						sneets matching each weekly session, self-
1		1	1	1	1	help materials including Jon Kabat-Zinn's

						book 'Full Catastrophe Living' and a
						meditation CD
Chow (2014)	Psychoeducational intervention programme	Newly diagnosed gynaecological cancer patients	Individual, face-to- face (sessions 1-2); individual, telephone- delivered	Registered nurse	Four 30- 60 minute sessions (1 pre- treatment, 3 post- surgery)	meditation CD. Based on a thematic counselling model. Different topics are covered in each session. Session 1: Information on gynaecological cancer and its treatment, common side- effects, and impact on body image and sexuality. Session 2: Post-operative wound management, diet, breathing and relaxation, coping skills. Session 3: Issues post-
			(session 3); group- based, face-to- face (session 4)			treatment and preparation for discharge. Session 4: Communication, sexuality, social support, social role changes.
Cimprich (2005)	Taking CHARGE	Women who completed primary treatment for early Stage I or II breast cancer	Group- based, face-to- face (sessions 1 and 4); individual, telephone- delivered (sessions 2 and 3)	Oncology nurse practitioner and health educator	Four sessions delivered at 2-week intervals	Self-management intervention designed to facilitate successful transitions to survivorship after breast cancer treatment. Involves a two-pronged approach building on self-regulation principles to (1) equip women with self-management skills to address concerns following breast cancer treatment, and (2) provide information about common survivorship topics. Session 1: enhancing psychological wellbeing. Session 2: managing physical symptoms and side- effects. Session 3: achieving functional wellness through a healthy lifestyle. Session 4: promoting functional adjustment in family, work, and social roles. Each participant received an intervention workbook that served as a 'road map' for each session and guided women through the steps of the self- regulation process and the breast cancer- specific content areas.
Edgar (2004)	Nucare coping skills training intervention	Cancer patients	Group- based,	Not reported	Three 2- hour sessions	Psychosocial educational intervention offered to cancer patients and their families to help them develop skills helpful in coping with

			face-to- face			cancer. There are seven specific components: 1) problem solving techniques; 2) goal setting; 3) cognitive reappraisal; 4) relaxation training; 5) effective use of social support; 6) communication; 7) components of a healthy lifestyle. Each participant receives a comprehensive workbook with simple instructions, exercises, and notes of encouragement.
Fitch (2011)	Picking up the Pieces workshop for survivors	Women diagnosed and treated for ovarian cancer	Group- based, face-to- face	Not reported	One 6- hour workshop	The intervention focuses on providing practical approaches to recovery after ovarian cancer. The content and activities are based on four phases of recovery: inquiry (recovering sense of self); discovery (recovering sense of control); growth (recovering sense of meaning); and reflection (recovering sense of future). Intervention content includes presentations, large and small group discussions, experiential exercises, active learning and practice around foundational skills (five-question check-in and attentive walking).
Gray (2013)	Community-based intervention to improve quality of life in people with colorectal cancer	Newly diagnosed colorectal cancer patients	Individual, face-to- face (home visit) and telephone- delivered (follow- up)	Nurse	1-hour home visit 6-12 weeks after diagnosis and telephone follow-up 1 week later	Evidence-based intervention informed by Control Theory to help participants identify personally important symptoms and activities; set appropriate goals; use action planning to progress towards goals; self- monitor progress; and identify (and tackle) barriers limiting progress. Participants receive factsheets on different symptoms/activities.
Kilbourn (2013)	The Easing and Alleviating Symptoms during Treatment (EASE)	Newly diagnosed head and neck cancer patients undergoing treatment	Individual, telephone- delivered	Not reported	Up to 8 sessions to correspond with key phases in treatment	Psychosocial intervention based on the Transactional Model of Stress and Coping, which involves: 1) an ongoing systematic assessment of physical, psychosocial, and functional needs; 2) a psychoeducational component geared toward the management of

	psychosocial	including			(e.g., time	treatment side effects: and 3) coping skills
	programme	radiotherapy			of	training to facilitate adaptive coping and
	r8	FJ			diagnosis	improve self-care and symptom management
					active	
					treatment	
					end of	
					treatment)	
$I_{ob}(2011)$	Staving Abreast	Newly diagnosed	Group	Not reported	Four	Guided by social cognitive theory, this
Lon (2011)	Moving Abead	breast cancer	based	Not reported	weekly	programme is designed to provide self
	(SAMA) solf	patients	face to		sossions	management adjustion via core self
	(SAMA) sell-	patients	face-to-		sessions	management duille learn generic drille that
	management		lace			management skills, learn generic skills that
	programme					can be applied to new problems as they arise,
						to practice new health benaviours and
						support via a patient-provider partnersnip.
						Core self-management skills taught include
						problem solving, decision making, resource
						utilization, the formation of a patient-
						provider partnership, action planning, and
						self-tailoring. Participants are given a
						workbook with group and individual
						exercises on medical task management,
						emotional management, health and role
						management, according to the themes of each
						week. Participants have to work out an action
						plan for each week.
Martin	Self-management	Testicular cancer	Group-	An	One 4-	Three intervention targets: moving forward,
(2013)	workshop for	survivors who had	based,	experienced	hour	psychological health, and providing
	testicular cancer	completed	face-to-	self-	workshop	information. Workshop schedule: overview
	survivors	primary treatment	face	management	_	and ground rules; what is self-management?;
				tutor and a		information on testicular cancer; managing
				male		fatigue; finding a meaning; cancer survivor-
				specialist		led discussion; open forum/question and
				cancer nurse		answer session; moving forward with hope.
Risendal	Cancer Thriving	Adult cancer	Group-	Two	Six	Modified version of CDSMP (see Beckmann
(2014)	and Surviving	survivors not in	based,	certified	weekly	above) for cancer survivors. Adapted to
	Program	active treatment:	face-to-	CDSMP	sessions	include restoration of self-confidence.
	0	support	face	facilitators		adjustment to changed self, and confidence to
		persons/caregivers		who are also		self-manage cancer-related problems to

		were also allowed to attend		cancer survivors		promote successful coping and recovery of wellbeing following a cancer diagnosis.
Thompson (2014)	Preparing Breast Cancer Patients for Survivorship (PREP)	Breast cancer survivors at least 2 years post- diagnosis	Group- based, face-to- face	A cancer support centre staff member and a counsellor	Four weekly two-hour sessions	Supportive patient-focused group visit intervention to facilitate the transition from cancer patient to cancer survivor. Each meeting has a specific theme. Week 1: experience of follow-up. Week 2: living with having cancer. Week 3: the threat of recurrence, signs and symptoms. Week 4: moving on from follow-up.

Table 3. Qualitative synthesis: themes, subthemes and inclusion in papers.

Themes (third- order constructs)	Subthemes	Key concepts (translated second- order constructs)	Illustrative quotations from participants (first-order constructs)	Studies that included themes/subthemes
Gaining support	Sharing experiences with peers	Reduced sense of isolation	"It was good to meet others and to realize you are not alone. Sometimes I think 'Yes, I have cancer' but meeting others made me feel not so alone." (Beckmann et al., 2007, p. 40)	[25, 26, 29-31, 34-37]
		Validation/normalis ation of cancer experiences	"When she said 'I've got a pain here and there' and then I said, 'Yeah! Me too!' Then you don't feel like you're so abnormal, or something is wrong with you, or that you will get a recurrence" (Loh et al., 2011, p. 1494)	
		Being inspired by others	"those that were in the same workshop whose conditions had been dramatically worse than mine and how they've, you know, responded to that actually put it back into perspective again." (Martin et al., 2013, p. E20)	
		Sense of connection	"You are all bonded together, all going through the same emotional things and life, death, chemotherapy and whatever else it is and you just bond together because you're all doing the same thing." (Bottomley, 1998, p. 27)	
		More discussion time needed	"Sometimes it would have been nice to talk more as a group, but it was difficult as we had to cover so much, we liked to talk together, particularly at first. We wanted to see each others' problems and share them." (Bottomley, 1998, p. 28)	
	Interacting with intervention facilitators	Knowledge and understanding of cancer survivorship	"The facilitator is very comfortable with the material; she understands what survivors want and need." (Fitch et al., 2011, p. 142)	[26-29, 31, 33-37]
		Role in managing group discussions	"Leaders did a great job of keeping on topic and keeping people from dominating conversations." (Risendal et al., 2014, p. 767)	
		Provision of emotional support	"I think the [facilitator] listening to me, offering support, encouragement; you know just having someone you can talk to was a great thing." (Kilbourn et al., 2013, p. 198)	
	Having a safe space to talk	Open, non- judgemental environment valued	"I don't know how to explain it. It really satisfied me to talk like that, you know, to somebodyOpen, like really really open. Yes and somebody that understood." (Chambers et al., 2015, p. 67)	[26-28, 34, 35, 37]
		Need for support independent of loved ones	"Even your own family, although they care about me, they, not being in the same boat, don't know how I feel. So people that are in the sessions know how you feel, they have been through the same trauma. That was very helpful, being able to talk." (Bottomley, 1998, p. 27)	

Themes (third- order constructs)	Subthemes	Key concepts (translated second- order constructs)	Illustrative quotations from participants (first-order constructs)	Studies that included themes/subthemes
Becoming empowered	Increasing knowledge	Limited information prior to intervention	"In that workshop I found out more than I have done in the last probably six years of going through this." (Martin et al., 2013, p. E19)	[28, 31, 34, 35, 37]
		Information on cancer allays fears	"I know more about the disease and impending treatment. I am not so worried about the side effects now" (Chow et al., 2014, p. 390)	
		Information on available resources provides reassurance	"The feeling of not being the only one and reassurance of the facilities available, even after discharge." (Thompson et al., 2014, p. 13)	
		Information provided incrementally	"[T]he information over the four weeks was so helpful and no, there was no information overloaded (sic) – it was given in tolerable dose[s] over the weeks" (Loh et al., 2011, p. 1493)	
	Learning new skills	Goal setting	"[This exercise] actually meant I got off my backside and set myself a goal and said, 'Right, I'll try and achieve that'." (Beckmann et al., 2007, p. 40)	[25-32, 34-36]
		Managing negative thoughts	"Thinking a negative thought, I could push it around the other way and think something positive. So it made me train my mind more to not think on the negative aspects of things." (Bottomley, 1998, p. 27)	
		Relaxation techniques	"Whenever I can't get to sleep, I remember what you taught me. For example, deep breathing exercises help me sleep better (Chow et al., 2014, p. 390)	
		Diet and exercise	"I'm a non-exercise person actually but I find that I am now more aware and conscious about exercise and diet" (Loh et al., 2011, p. 1494)	
		Ongoing practice of self-management skills	"[The intervention] gave me the initiative to do the exercises and breathing and all that, which I still do now." (Beckmann et al., 2007, p. 40)	
		Take-home materials support skills use	"[The workbook is o]ne of the greatest gifts I have received, it is my second bible. It has been so helpful, and I will be referring to it often. I feel the workbook was written just for me." (Cimprich et al., 2005, p. 712)	
		Enhanced self- efficacy	"[A]fter each session I really felt uplifted. I really felt ok we can, I can, step forward. I can move forward and deal with what's coming at me, or being thrown at me." (Chambers et al., 2015, p. 66)	[25, 27, 29-31, 34, 35, 37)

Themes (third- order constructs)	Subthemes	Key concepts (translated second- order constructs)	Illustrative quotations from participants (first-order constructs)	Studies that included themes/subthemes
	Regaining confidence and control	Greater sense of responsibility	"I have taken responsibility back for my life and am no longer a cancer patient but now a survivor, living a healthy full life." (Beckmann et al., 2007, p. 40)	
		More proactive	"I've learnt to sort of not be so, to procrastinate about things and you know, not let things go and don't self-diagnose." (Chambers et al., 2015, p. 66)	
		Improved communication with health professionals	"I was able to refer back to the surgeon during my checkup like, 'Ok you removed my lymph nodes? May I know how many you removed? How many was cancerous? Do I have this oestrogen hormone positive, what about my herceptin status' things like that you know, which I am now more confident and able to ask" (Loh et al., 2011, p. 1493)	
Moving beyond cancer		Acceptance of illness	"It's definitely frightening and sad but we have to be positive. Face it. Go for treatment again if there's a chance. If [there] really [is] no chance you have to accept it. It's part and parcel of life." (Loh et al., 2011, p. 1492)	[25, 27, 29-31, 34-37]
		Desire to live life to the full	"That is where I was at – where you don't want to do anything else because your thoughts were always there, 'What is the point of going on? Why would I do that? There is going to be no tomorrow'. Whereas now I think we are not going to worry too much about tomorrow, we are just going to have a good time today." (Beckmann et al., 2007, p. 40)	
		Reprioritisation	"Without SAMA, I most probably would go into depression. I was crying all the time because of the diagnosis and everything including my marriage was falling apart. Joining SAMA at the right time save[d] my life and I could be independent for my children. I have even gone into advocacy work." (Loh et al., 2011, p.)	
		Positivity and hope	"Knowing others have been hit by this disease and come more or less through it. Confidence in the 'go forward and enjoy each day' philosophy." (Thompson et al., 2014, p. 13)	
Issues around intervention design - one size does not fit all	Preferences about group composition	Lack of similarity hinders engagement	"The other people were quite nice but I just felt I had nothing in common with them, so I only really went to the one session, because it didn't seem relevant at all." (Beckmann et al., 2007, p. 40)	[25, 29, 35-37]
		Desire for closer match between participants	"The first group meeting was a little awkward. It might have been nice to have a closer "match" to other members of the group, i.e. lumpectomy or mastectomy, age and whether they had children or not." (Cimprich et al., 2005, p. 712)	
		Value of diversity in group composition	"I think having longer term survivorsas well as those still undergoing treatment was very helpful Attendees hung on their every word." (Risendal et al., 2014, p. 767)	

Themes (third- order constructs)	Subthemes	Key concepts (translated second- order constructs)	Illustrative quotations from participants (first-order constructs)	Studies that included themes/subthemes
	Preferences about intervention delivery	Need for support before or during treatment	"That might be a good idea [starting the intervention prior to treatment] because obviously many people would feel apprehensive when you learn you've been diagnosed with cancer." (Kilbourn et al., 2013, p. 197)	[25, 29, 33-36]
		Need for support immediately post- treatment	"Being a nine-plus year survivor, much of this I learned in the beginning years. I think this would have benefited me more at the front end of survivorship." (Risendal et al., 2014, p. 767)	
Pre abc inte cor		Preference for face- to-face contacts	"I had a little better understanding and feel; I could relate and communicate better because I had seen my counsellor at least once and she was a persona and not a voice over the phone." (Kilbourn et al., 2013, p. 197)	
	Preferences about intervention content	Need for cancer- specific content	"Probably most of the things they talked about I had already looked into and I felt the course wasn't in enough depth for what I wanted to know To be helpful for me I needed more specific things." (Beckmann et al., 2007, p. 40)	[25, 28, 34-36]
		Need for cancer- specific materials	"I'd have liked to have read about someone my own age who goes down the pub, you know, whose gone through it, you know, typical lad or bloke." (Martin et al., 2013, p. E20)	
		Desire for coverage of specific cancer- related topics	"I want to know more. For example, the healing time for the abdominal wound, the duration of vaginal bleeding after the operation, and the feelings when stitches removal (sic). These can help to relieve me of doubt and worries." (Chow et al., 2014, p. 390).	
Personal obstacles to engagement		Low perceived need	"Cause I've got great family support. Look, I've got a friend that's going through cancer at the moment, I'm talking with her and I've got a friend who survived lung cancer and I talk to her when I wanna talk to someone that's been there." (Chambers et al., 2015, p. 67)	[25-27, 31-33, 35-37]
		Reticence to talk about cancer	"I think I was worried about talking about the diagnosis of cancer and opening up to people and not really knowing what to expect to get out of it, if I were or if I wasn't, whether I'd be better to stay at home and not get involved in something like that." (Bottomley, 1998, p. 27)	
		Practical issues	"I have trouble on the phone, I have dreadful trouble with the mobile. Just mainly because of the complications with the hearing." (Chambers et al., 2015, p. 67)	