Nursing strategies to support psychological adaptation in adult cancer patients: a scoping review

Estratégias de enfermagem para apoiar a adaptação psicológica em pacientes adultos com câncer: uma revisão de escopo

Estrategias de enfermería para apoyar la adaptación psicológica en pacientes adultos con cáncer: una revisión del alcance

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ABSTRACT
Objective: To map the scientific evidence published in the literature about nursing strategies and intervention programs directed at supporting psychological adaptation in adult cancer patients. Method: A scoping review based on Joanna Briggs Institute Reviewers’ Manual 2015 Methodology for JBI Scoping Reviews was conducted. Twelve databases were searched between 1 January 2012 and 31 January 2019. Results: From 2203 studies, 32 were included. Evidence was grouped in five subjects: procedures, outcome assessment measures, nursing feasibility, effectiveness and cost-effectiveness. The cognitive-behavioral therapy was most frequent intervention. These interventions were developed between 5 to 10 weeks, included 3 to 6 sessions and lasted up to 60 minutes. Despite a wide range of outcome measures employed, three main areas were identified, adjustment and coping; stress, anxiety and fear of recurrence; and quality of life. Conclusion: This review allowed to identify nursing strategies to support psychological adaptation in adult cancer patients, to assess vulnerabilities and difficulties related to nurse interventions and to recognize the need for further insights into the effectiveness and cost-effectiveness.

DESCRIPTORS
Neoplasms; Oncology Nursing; Adaptation, Psychological; Review.

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INTRODUCTION

Scientific literature has provided conceptualizations increasingly focused on adaptive processes, showing that dealing with chronic diseases requires adaptation in multiple life domains. The interest in recognizing physiological, emotional, social, behavioral and cognitive aspects of psychological adaptation to oncological disease has also grown over the last decade.

Historically, multiple studies have been developed with the purpose of understanding the adaptive processes and relationship between stress, coping and psychological adjustment concepts.

Consciously or unconsciously, individuals with cancer define a trajectory to go through and deal with the challenges of a chronic disease. Facing an oncological disease - with its associated physical, psychological and social integrity challenges, strong feelings of loss and suffering and vulnerability emergence - has a significant impact on how individuals define themselves and the environment around them. Therefore, in addition to all the biological changes associated with the process of cell growth and division, cancer entails a psychosocial adaptation of the individual to his new condition.

Adjustment or adaptation, despite often referred to as synonyms, are different concepts. Theoretically, the first integrates the process of interaction between the individual and surrounding environment and the individual response to eliminate stimuli in action at that moment; the second relates to results and implies a structural, perceptual or behavioural change by which an organism increases its chances of surviving or of answering more favourably to the environment and its conditions.

Coping strategies present as a range of cognitive and behavioural efforts (health status acceptance, role performance, physical impairment adaptation, health status satisfaction, hope, body image, family and social support, anxiety self-control, fear of recurrence, self-esteem, disease management, sexual performance, motivation, among others) that the individual adopts to adjust to internal and external requirements emerging in stressful situations, and can be defined as a personal burden or a demand which overcomes the subject’s personal resources. Coping is not an isolated phenomenon but an integral part of a complex and dynamic process involving the subject, the environment, and the relationship between both. It is believed that coping strategies can contribute to adaptive behaviours by the individual and are able to mediate the whole process.

Considering cancer acceptance, coping as an adaptive mechanism aims to solve problems related to the disease and its consequences in a realistic way, reduce feelings of threat, preserve physical integrity, help to maintain social relationships and performance in different roles, promote a positive self-concept, create a personal concept of value and social acceptance, increase self-esteem and increase quality of life (QoL).

The authors of the present work proposed to develop an educational nursing intervention able to foster the adaptive process of cancer patients following recommendations of the Medical Research Council for development and evaluation of complex interventions. This study represents the first step for achieving that goal and aims to map the scientific evidence published in the literature about nursing strategies and intervention programs directed at supporting psychological adaptation in adult cancer patients.

The research question for this review was: “What is known in the existing scientific literature about nursing interventions and intervention programs directed at supporting psychological adaptation in adult cancer patients?”. For the construction of this question, the PPC mnemonic was used (Population – adult cancer patients, Concept - psychological adaptation, Context - nursing interventions and intervention programs). The aims, inclusion criteria and methodological approach of this review were detailed in a previously developed protocol.

METHOD

STUDY DESIGN

A scoping review was conducted using the methodological framework developed by Joanna Briggs Institute Reviewer’s Manual for Scoping Reviews and Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist for data organization. This type of study allows for a systematic approach to the existing scope of evidence about a specific theme, by summarizing and outlining findings, identifying knowledge gaps and suggesting future studies. Therefore, this study consists of a scoping review about nursing interventions aiming at promoting a psychological adaptation to oncological disease in adults.

DATA COLLECTION

Study search for this review was accomplished by searching Academic Search Complete®, Business Source Complete®, CINAHL Complete®, Educational Resource Information Center®, Library, Information Science & Technology Abstracts®, MedicLatina®, MEDLINE with Full Text®, Psychology & Behavioral Sciences Collection®, Regional Business News®, SPORTDiscus with Full Text® and Cochrane Library®, using Medical Subject Heading (MeSH) terms and free text words combined with boolean operators “OR” and “AND” and the tool “*”. Exploratory searches were previously conducted on the referred databases using the terms cancer, adaptation and nursing, so as to provide the best framework for the review. After reading and analysing some relevant articles, the most common keywords were identified. We believe that the set of selected databases is sufficiently large and, at the same time, sufficiently specific to answer the research question.

Through EBSCOhost Web® search engine, a search was conducted at Academic Search Complete®, Business Source Complete®, CINAHL Complete®, Educational Resource Information Center®, Library, Information Science & Technology Abstracts®, MedicLatina®,...
The following filters were activated: (((Neoplasms) OR (Cancer) OR (Cancer Patient*))) NOT ("Child")) AND ("Adaptation, Psychological") OR ("Coping") AND ("Nursing") OR ("Nursing care")). The following filters were activated: Published date – 2012/01/01-2019/01/31.

Subsequently, Cochrane Library® was used to complete the search by using a boolean phrase specific to this database: (Neoplasms OR Cancer OR Cancer Patient NOT Child) AND (Adaptation, Psychological OR Coping) AND (Nursing OR Nursing care); Publication from 2012/01/01 to 2019/01/31; Search all text; Word variations were searched.

This search was carried out in February 2019 and the use of some filters in the search allowed to access the most recent research on the subject, to extend the search to the full text of the articles and to consider some variations of the searched keywords. This option reduced the possibility of eliminating articles that could be considered relevant.

**Selection criteria**

The search was conducted in English and scientific articles written in English, Spanish or Portuguese and published between 1 January 2012 and 31 January 2019 were eligible for inclusion. No restrictions were made concerning the type of study. Due to the high specificity of interventions directed at children and adolescents, studies including these specific patient populations were excluded, as well as those concerning interventions not amenable to be performed by nurses. Emphasizing the need to consider family and caregivers throughout the cancer journey as useful resources for nursing interventions, studies addressing both patients and partners/caregivers were also included. Studies including only partners or caregivers of cancer patients were excluded. Studies addressing the impact of nursing interventions in the process of psychological adaptation to oncological disease including nurses in the study sample were also included, due to their relevance. All disease stages (including advanced and palliative) and a comprehensive number of cancer types were considered.

Grey literature was also incorporated in the review, by including studies retrieved from free searches complying with predefined inclusion criteria. Study references were also analysed to identify further studies for inclusion. Both study review and data extraction were conducted by two independent investigators. Disagreements between the two authors were resolved by listening a third member of the research team.

**Data analysis and treatment**

Retrieved studies were analyzed in two phases. On the first phase, a descriptive analysis exploring studies’ methodological characteristics (study design, cancer type/stage and sample) and results (including study year and geographic distribution) was performed. On the second phase, retrieved evidence was sorted in five groups related to nursing interventions: procedures (including the conceptual framework), outcome assessment measures, feasibility, effectiveness and cost effectiveness. Evidence tables were developed to organize data, according to the five categories above.

**RESULTS**

The original search retrieved 2203 studies, 576 of which from Academic Search Complete®, 6 from Business Source Complete®, 399 from CINAHL Complete®, 1 from Library, Information Science & Technology Abstracts®, 2 from MedicLatina®, 943 from MEDLINE with Full Text®, 57 from Psychology & Behavioral Sciences Collection®, 1 from Regional Business News®, 6 SPORTDiscus with Full Text®, 190 from Cochrane Library® and 22 from the grey literature. A total of 395 were duplicates and therefore removed through a reference manager (Zotero®). Thirty-two articles were selected for data extraction and analysis. Figure 1 depicts the process of selection, with article selection flow from identification to final inclusion.

Most studies included in this review were published in 2013 (n=14), five in 2014, four in 2016. The scientific community interest in this theme was perceived as higher in Europe (n=11) and in the American continent (n=12), where five of eleven studies were retrieved from the United Kingdom and ten of twelve studies from the U.S., respectively. Studies were also included from Oceania (n=5; including four from Australia) and Asia (n=3). Only two studies were from Portugal. Countries like New Zealand, Canada, Japan, Mexico, China, Singapore, Ireland, Netherlands, German and Norway contributed with one study each.

Methodological characteristics were well balanced among studies, with 11 experimental studies (including eight Randomised Controlled Trials [RCTs] and three Clinical trials with pre- and post-intervention measurements) and ten literature reviews included. Furthermore, two Quasi-experimental studies, two Pilot studies of Randomized controlled trials and three Protocols of Randomised Controlled Trials were also included. Notably, empirical studies accounted for more than 55% of analysed articles (n=18).

Breast cancer was the most studied cancer type (n=11). However, a relevant number of studies (n=11) included more than one type of tumour simultaneously. Prostate (n=3), lung (n=2), head and neck (n=2), hematological (n=1), colorectal (n=1) and gynaecological (n=1) cancers were the remaining cancer types included in this analysis. Importantly, six studies included both oncological patients and their partners (n=5) or caregivers (n=1) and one study comprised health professionals as part of the sample, for the purpose of developing nursing interventions directed at promoting breast cancer psychological adaptation.

With the exception of one study considering the advanced/palliative setting, the concept of adaptation is mentioned in the literature in every single stage of the oncological disease. Eleven studies were found which approached adaptation independently of disease stage, eleven studies...
focused treatment stage and ten other studies focused survival/post-treatment stage.

Most studies (n=12) included samples with no less than 100 participants, three included samples with 50–100 participants and the remaining included less than 50 participants. The subject of the present review is relevant, as it allows to understand how other intervention programs were developed and discloses procedures implemented in nursing interventions (34). Chart 1 summarizes the main characteristics (aims, results and conclusions) of studies included.

Chart 1 – Characteristics of studies included.

<table>
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<th>Author/s and Aim</th>
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<td>Decker et al. (37) - To develop and evaluate the feasibility of a brief intervention to attenuate the incidence of psychosexual morbidity within the dyad secondary to the diagnosis and treatment of breast cancer.</td>
<td>Interesting trends concerning differences between the intervention and comparison groups on the dyadic adjustment were obtained. The intervention was feasible and acceptable. Intervention by telephone was shown to be as effective as face-to-face mode of delivery.</td>
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<td>Lambert et al. (38) - To test the efficacy of Coping-Together: a multimedia, self-directed, coping skills training intervention for patients with cancer and their partners.</td>
<td>Not applicable. No results. Protocol study.</td>
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<td>Lambert et al. (39) - To examine acceptability of methods used to evaluate Coping-Together, one of the first self-directed coping skill intervention for couples facing cancer, and to collect preliminary efficacy data.</td>
<td>For patients, results suggested that Coping-Together may improve distress (intrusion and avoidance) and contribute to potentially appraising cancer as less challenging. Although both groups reported a consensus decrease, Coping-Together couples decline was lower than minimal ethical care (MEC) participants. Some improvements in the MEC group were also noted in terms of mental quality of life, uncertainty, harm/loss appraisal, and supportive dyadic coping by oneself.</td>
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<td>McCaughan et al. (40) - To describe development and evaluation of the content of a self-management psychosocial intervention for men with prostate cancer and their partners.</td>
<td>Not applicable. No results. Protocol study.</td>
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<td>Chambers et al. (41) - To compare the effectiveness of two low-intensity approaches for distressed patients with cancer and caregivers who called cancer helplines seeking for support.</td>
<td>For low-education patients, only the psychologist intervention was associated with a significant distress drop. For all other participants, distress decreased over time in both arms with small to large effect sizes. Post-traumatic growth increased over time for all participants.</td>
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Figure 1 – PRISMA diagram flow chart of study identification and inclusion (35).

### Chart 1 – Characteristics of studies included.

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<td>Isardas et al. (42)</td>
<td>Not applicable. No aim. Evidence-based care sheet (recommendations).</td>
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<td>Dorros et al. (43)</td>
<td>Survival concerns focused on cancer and treatment-related issues, whereas partners’ concerns centered on the spouse/partner with cancer well-being, and what they were doing to help their loved ones cope with his/her illness. Key concerns for all consisted of relationship maintenance and communication issues. Further, discussion of these concerns was predictive of significant improvements in post-counselling adjustment for women with breast cancer. Discussion of interpersonal concerns may play a more important role in the well-being of women, rather than men, coping with cancer.</td>
</tr>
<tr>
<td>Von et al. (44)</td>
<td>Survivors identified a structured environment and validation of their cognitive concerns as essential to adjustment. Although interventional research is still limited, non-pharmacological approaches such as cognitive training programs show the greatest promise.</td>
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<td>Hori et al. (45)</td>
<td>Although requiring further testing, findings suggested that improvements in lung cancer patients’ quality of life can be achieved by combining the use of this model with positive self-evaluation and interventions to raise self-adjustment ability.</td>
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<tr>
<td>Sekse et al. (46)</td>
<td>Main findings indicated that participation in the rehabilitation group was considered a special community moment of mutual understanding and belonging. Education and knowledge sharing endowed women with a clearer vocabulary and a better understanding of women’s self-lived experiences. Attending a nurse-led education and counselling group intervention had a positive impact on various aspects of women’s experiences.</td>
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<tr>
<td>Chen et al. (47)</td>
<td>Couple coping intervention is more effective than individual coping intervention for improving self-efficacy and quality of life in patients with resected lung cancer.</td>
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<tr>
<td>Jefford et al. (48)</td>
<td>To examine the effectiveness of an innovative supportive care program (SurvivorCare) comprising survivorship educational materials, provision of a tailored survivorship care plan (SCP), an individually tailored nurse-led end-of-treatment consultation and telephone follow-up for people with potentially cured colorectal cancer, aiming to reduce psychological distress and unmet needs in the six months following treatment completion.</td>
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<tr>
<td>Smith et al. (49)</td>
<td>At 3- and 6-month follow-up, mean scores improved for all key outcome measures, including depression, anxiety, posttraumatic stress, fatigue, and well-being from baseline. Results were most pronounced among participants who reported 24/10 on the Distress Thermometer at baseline. Changes in each targeted resource were associated with 3-month improvements in, at least, one outcome. Participation in the Pillars4Life program was associated with statistical and clinically significant improvements in scores on pre-specified outcomes and targeted resources.</td>
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<tr>
<td>Whitehead et al. (50)</td>
<td>Systematic review and meta-analysis of randomized controlled trials (RCTs) and quasi-RCTs assessing the effects of HBMS programmes in maintaining or improving quality of life in women with stages 0 to 3 breast cancer who completed primary cancer treatment up to 10 years earlier. A total of 22 RCTs and four quasi-RCTs comprising 2272 participants were included. Intervention components were categorised into four groups: educational and psychological; educational and physical; physical and psychological; and educational, physical and psychological. Results revealed that HBMS programmes seem to have a short-term beneficial effect in improving breast cancer global quality of life in survivors. In addition, HBMS programmes were associated with anxiety, fatigue, and insomnia reduction immediately after the intervention.</td>
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<tr>
<td>Gaston-Johansson et al. (51)</td>
<td>A model measuring effectiveness of CCSP on QoL at 1-year follow-up showed that the CCSP group significantly improved overall QoL, health and functioning, and socioeconomic and psycho-social/spiritual well-being compared with the control group. CCSP patients frequently used the CCSP to manage psychological and sleep problems. CCSP improved QoL for patients at 1-year follow-up. Patients overwhelmingly reported that CCSP was beneficial. CCSP showed potential as a self-management program for breast cancer survivors.</td>
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<tr>
<td>Thomas et al. (52)</td>
<td>Meaning-centered psychotherapy appeared to effectively enhance meaning and spiritual well-being for cancer patients. Authors showed that psychotherapy can be offered in group or individual format and modified for patients with advanced cancer, cancer survivors, or even nursing staff. The longer-term benefits of treatment, its impact on emotional or physical distress, its level of cost-effectiveness, and its potential for dissemination remained unclear.</td>
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### Author/s and Aim

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<td>Scott et al. (50)</td>
<td>To conduct a systematic review of studies examining the effectiveness of multidimensional rehabilitation programs (MDRPs) in maintaining or improving the physical and psychosocial well-being of adult cancer survivors. Participating in a MDRP was associated with an increase in physical health component scores. Findings from the narrative analysis suggested that MDRPs with a single domain or outcome focus appeared to be more successful than programmes with multiple aims. In addition, programmes that comprised participants with different types of cancer compared to cancer site-specific programmes were more likely to show positive improvements in physical outcomes. The most effective mode of service delivery appeared to be face-to-face contact supplemented with at least one follow-up telephone call. There was no evidence that MDRPs which lasted longer than six months improved outcomes beyond the level attained at six months. There was also no evidence that services were more effective if delivered by a particular type of health professional.</td>
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<tr>
<td>de Leeuw et al. (54)</td>
<td>To compare conventional medical follow-up with follow-up including additional nursing consultations regarding psychosocial adjustment and health-related quality of life (HRQoL) of head and neck cancer patients. Intervention group had a larger score improvement, which was significant for one of the seven adjustment scales and 19 of the 33 HRQoL scales at 6 and 12 months, respectively. These results suggested that nurse-led consultations for patients with head and neck cancer have a positive effect, primarily concerning HRQoL. Nurse-led follow-up leads to a similar psychosocial adjustment as conventional follow-up, even among patients with worse performance at follow-up start. Authors concluded that nurse-led follow-up may be a cost-effective way to improve follow-up care for this patient population.</td>
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<tr>
<td>Mustafa et al. (53)</td>
<td>To assess the effects of psychological interventions on psychosocial and survival outcomes for women with metastatic breast cancer. Ten RCTs was included, seven of which on group psychological interventions, three on cognitive behavioural therapy and four on supportive-expressive group therapy. The remaining three studies were individual-based and types of psychological interventions were not comparative or supportive-expressive. The overall effect of psychological interventions across six studies on one-year survival favoured the psychological intervention group. Pooled data from four studies did not show any survival benefit at five-year follow-up. There was evidence of a short-term benefit for some psychological outcomes and pain score improvements. Psychological interventions appeared to be effective in improving survival at 12 months but not at longer-term follow-up and were effective in reducing psychological symptoms only in some assessed outcomes in women with metastatic breast cancer.</td>
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<tr>
<td>Jassim et al. (56)</td>
<td>To assess the effects of psychological interventions on psychological morbidity, quality of life and survival among women with non-metastatic breast cancer. A total of 28 studies were included. A wide range of interventions were evaluated, with 24 trials investigating a cognitive behavioural therapy and four trials investigating psychotherapy compared to controls. A psychological intervention, namely cognitive behavioural therapy, produced favourable effects on some psychological outcomes, particularly anxiety, depression and mood disturbance. However, evidence for a survival improvement was still lacking. The authors emphasise that existing findings are open to criticism due to the notable heterogeneity and shortcomings of studies included.</td>
</tr>
<tr>
<td>Parahoo et al. (57)</td>
<td>To evaluate the effectiveness of psychosocial interventions for men with prostate cancer in improving QoL, self-efficacy and knowledge and in reducing distress, uncertainty and depression. Nineteen studies comparing psychosocial interventions versus usual care in a total of 3204 men with prostate cancer were included in this review. Results showed that psychosocial interventions result in small improvements in QoL at the end of intervention, although it was not clear whether they actually made a difference to participants. Interventions were also effective in increasing knowledge up to three months after the intervention. No evidence suggested that these interventions improved self-efficacy or reduced uncertainty, distress and depression in men with prostate cancer. No clear evidence showed that group-based were more effective than individual-based interventions for most outcomes measured in this review.</td>
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<tr>
<td>Semple et al. (58)</td>
<td>To assess effectiveness of psychosocial interventions to improve quality of life and psychosocial well-being for patients with head and neck cancer. Seven trials, accounting for 542 participants, met eligibility criteria. Analysis of these studies showed no evidence that psychosocial interventions promote global quality of life for patients with head and neck cancer at the end of intervention as measured by the European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire. There was no significant change in levels of anxiety or depression following intervention. Authors concluded that, at present, there is insufficient evidence to refute or support the effectiveness of psychosocial interventions for patients with head and neck cancer.</td>
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<tr>
<td>Northouse et al. (59)</td>
<td>To determine whether patient-caregiver dyads, randomly assigned to either a brief or extensive dyadic intervention (FOCUS Program), had better intermediary outcomes (i.e. less negative appraisals and increased resources) and better primary outcomes (i.e. improved QoL) than control dyads receiving only usual care; and to determine whether risk for distress and other antecedent factors (e.g. gender, type of dyadic relationship and cancer type) moderated effect of the brief or extensive program on intermediary and primary outcomes. Significant group by time interactions showed that there was an improvement in dyads’ coping, self-efficacy, and social QoL, as well as in caregivers’ emotional QoL. Effects varied by intervention dose. Most effects were found at 3 months only. Risk for distress accounted for very few modification effects. Both brief and extensive programs had positive outcomes for patient-caregiver dyads, but few sustained effects.</td>
</tr>
<tr>
<td>Sherman et al. (60)</td>
<td>To examine physical, emotional and social adjustment of women with early-stage breast cancer who received psychoeducation by videotapes, telephone counseling or psychoeducation plus telephone counseling as interventions addressing women’s specific needs during diagnostic, post-surgery, adjuvant therapy, and ongoing recovery phases of breast cancer. Improvements were observed for patients in all groups concerning overall health, psychological well-being and social adjustment. No significant group differences were observed in physical adjustment, as measured by side effect incidence and severity or overall health. Poorer emotional adjustment over time was registered in the usual care (control) compared to the intervention groups concerning distress side effect. Telephone counseling group showed a marked decline in psychological well-being from the adjuvant therapy phase through the ongoing recovery phase. There were no significant group differences in t social adjustment dimensions.</td>
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<td>Antoni et al. (61)</td>
<td>To summarize current knowledge on psychological and physiological adaptation processes affected by cancer-related stress, and the effects of psychosocial interventions on psychological adaptation, cancer disease progression, and changes in stress-related biobehavioural processes that may mediate intervention effects on clinical cancer outcomes. According to authors, behavioural research suggests the importance of cognitive, behavioural, and social factors in facilitating adaptation during active treatment and throughout cancer survivorship, which forms the rationale for the use of many psychosocial interventions in cancer patients. Changes in adaptation may alter tumor growth-promoting processes (increased angiogenesis, migration and inflammation) and tumor defense processes (decreased cellular immunity) relevant for cancer progression and QoL of cancer patients. Some evidence suggests that psychosocial interventions can improve psychological and physiological adaptation indicators in cancer patients. Available evidence shows the ability of many different psychosocial interventions in improving stress and adversity responses to cancer experience as a way to improve psychological adaptation. Improvements in psychological adaptation (decreased negative affect and social disruption and increased positive affect and QoL) have been linked to an improved physiological profile during and after treatment, which may increase the odds for disease-free survival in some cancers.</td>
</tr>
<tr>
<td>Salgado (62)</td>
<td>To contribute to the development of a set of nursing interventions promoting breast cancer adaptation as a way to improve patients’ QoL. A total of 79 nursing interventions for women with breast cancer were suggested, which remain to be tested in the clinical practice for clinical efficacy assessment.</td>
</tr>
<tr>
<td>Beatty et al. (63)</td>
<td>To evaluate the efficacy of a self-guided web-based cognitive behavioural therapy intervention, designated as intervention Cancer Coping Online (CCO), compared with an attention control in improving cancer-related distress, HRQoL, and maladaptive coping among individuals with a recent diagnosis of cancer. Significant effects were found for cancer distress, global QoL, physical function, role function, social function and anxiety preoccupation. Post hoc between-group comparisons showed that CCO participants had statistically significantly higher physical functioning compared to controls at 3-month follow-up. Furthermore, compared to controls, post hoc comparisons found a moderate between-group size effect favouring CCO post-interventions for cancer distress and anxious preoccupation, and at 6 months of follow-up for global QoL.</td>
</tr>
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<td>García et al. (64)</td>
<td>To demonstrate the efficacy of cognitive-behavioral therapy in a sample of patients diagnosed with breast cancer in anxiety and depression reduction and in developing positive coping skills to improve QoL perception. Patients who participated in the individual intervention had statistically significant differences in QoL, physical health, interpersonal relations, anxiety subscale and Hospital Anxiety and Depression Scale (HADS). Authors concluded that cognitive-behavioral therapy was efficacious in the sample studied.</td>
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<td>David et al. (65)</td>
<td>To test the effectiveness of an internet-based program for hematologic cancer patients tested in a randomized controlled trial under field experimental conditions. At registration, most participants displayed clinically significant distress and lacked alternative access concerning psychosocial care. In contrast to the waiting list, the intervention group displayed a significant increase in fighting spirit. The effect was confirmed by intention-to-treat analysis. Otherwise, no effects were observed. Patient satisfaction with the program was high. Results demonstrated the potential efficacy of internet-based programs, also highlighting their limitations.</td>
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<tr>
<td>Carpenter et al. (66)</td>
<td>To develop an interactive web-based version of a Cognitive Behavioral Stress Management (CBSM) intervention for breast cancer survivors – the Coping with Cancer Workbook – and to evaluate its effectiveness in a randomized waitlist-controlled trial. An internet intervention based on an empirically supported CBSM intervention appeared to be effective in helping breast cancer patients live with more confidence in their ability to cope with stress. Given the increasing demands on healthcare and the fact that breast cancer patients are living longer as survivors, it is critical to find low impact ways to improve their lives. More research is needed to ascertain the long-term effects of such interventions, whether women are able to maintain these positive changes, and whether such an intervention can help prevent incidence of depression and other disorders in cancer patients.</td>
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<td>Brandão et al. (67)</td>
<td>To identify and describe psychological interventions for couples coping with breast cancer and evaluate their efficacy. Ten studies were included. Conflicting results were obtained regarding efficacy, although the large majority of studies (n=8) found benefits for both women and their partners in some dimensions, including QoL, psychological distress, relationship functioning, and physical symptoms associated with cancer. Psychological interventions for couples coping with breast cancer appear to be effective for women and their partners. However, further studies are needed to evaluate the efficacy of couple-based interventions and to identify for whom and how they are more effective.</td>
</tr>
<tr>
<td>Tomei et al. (68)</td>
<td>To determine the feasibility, acceptability and satisfaction of individual interventions to reduce fear of cancer recurrence. General trends in baseline and intervention stages were compared. Individual interventions appeared to help survivors lower their high fear of cancer recurrence (FCR) and cancer-specific distress. Qualitative exit interviews conducted with study participants showed that the intervention was acceptable and satisfactory. This clinical intervention allows researchers to systematically focus on evidence-based treatments for managing FCR and displays treatment options availability in different therapeutic modalities. However, further research is needed to identify active therapeutic ingredients and mechanisms of change in the intervention. Overall, intervention studies suggested it is possible to help cancer survivors manage their FCR.</td>
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Nine studies referenced the conceptual background supporting the investigation. Five of those were based on the Transactional Model of Stress and Coping (9,38,40,59-60,65) and two were based on the Social Cognitive Theory (38,40,68). Other theoretical contributions included the Adaptation Model of Nursing (63,69), the Crisis Intervention Model (60,70), the Social-cognitive processing model of emotional adjustment to cancer (41,71), the Client-centred therapy (46,72), and the Salutogenic model (46-73), among others, each referenced only once.

The Cognitive-behavioral therapy (n=9) was most frequent intervention used by nurses to foster cancer psychological adaptation, followed by the Educational therapy (n=6) and Counseling (n=6). Nursing psychotherapy intervention (n=2), Psychosocial intervention (n=2), Psychological intervention (n=1), Psychoeducation (n=1) and Supportive therapy (n=2) were also used.

The specific procedures used to operationalise nursing interventions were diversified. In the literature retrieved,
telephone (n=9) and face-to-face (n=8) interventions were the most common strategies to promote cancer psychological adaptation, but references were also found to the use of videotapes, multimedia or internet (n=5), group meetings (n=3) and booklets (n=3).

In an RCT study[37], which concluded that the effectiveness of couple coping interventions is superior to individual interventions in fostering cancer psychological adaptation, the intervention target was investigated. It was observed that most interventions were performed individually on the cancer patient (n=11), an appreciable number of studies (n=6) had the couple as the intervention target and a smaller number of studies (n=3) considered the dyad patient/caregiver[37].

Intervention programs’ length, including number of weeks and duration of each session, was also analysed. It was noted that most interventions were developed between 5 to 10 weeks (n=11), included 3 to 6 sessions (n=12) and lasted up to 60 minutes (n=7). None of the intervention programs analysed had a duration inferior to five weeks, four had a duration of 11 to 26 weeks and only two had a duration superior to 27 weeks. Regarding the number of sessions, only one program had less than three sessions, with four programs comprising seven or more sessions. Three intervention programs lasted between 61 and 120 minutes and only one program lasted longer than 120 minutes.

An analysis of instruments used in intervention programs was performed to investigate how results of these interventions were evaluated. Despite a wide range of outcome measures employed, three were mainly identified: one (assumed as a primary outcome) focused on adjustment and coping and two (considered as secondary outcomes) focused on stress, anxiety, fear of recurrence and QoL.

A group of studies were found considering assessment of patient adjustment and coping through: Brief COPE Inventory, assessing a broad range of coping responses[38,39,40,49,59]; Ways of Coping Checklist, analyzing individuals’ thoughts and actions to deal with specific stressful events[37]; Mini-Mental Adjustment to Cancer Scale, assessing psychological response and cancer coping styles[60,62,64]; Positive and Negative Affect, widely used as an indicator of the couple psychological well-being and social adjustment[51,54,62]; Fear of Cancer Recurrence Inventory, which simultaneously measures depression and anxiety[36,39,51,63]; Brief Symptom Inventory, which evaluates psychological distress and psychiatric disorders[41,48,64]; Distress Thermometer, an efficient and rapid screening tool for evaluating distress in cancer populations[38,48,49]; Revised Impact of Event Scale, measuring stress reactions after traumatic events[39,41,65]; Trait Anxiety Inventory[37,51]; and Fear of Cancer Recurrence Inventory[37].

To assess the disease impact on patients and their QoL, the European Organisation for Research and Treatment of Cancer quality of life core questionnaire – EORTC QLQ-C30[48,54,62] and the Functional Assessment of Cancer Therapy scale[40,49,59,65] were employed.

Some of the studies included in this review performed a feasibility assessment, i.e. analysed the extent to which an activity or intervention is practical or viable in a particular context or situation.

One of the studies included in this review[37], which aimed to develop and evaluate the feasibility of a brief intervention to reduce the incidence of psychosexual morbidity within the dyad secondary to breast cancer diagnosis and treatment, was the only study which proposed to analyse feasibility. This study accessed feasibility and acceptability by participants of an intervention addressing intimacy and sexuality issues when coping with breast cancer and revealed that 98% of participants completed all intervention sessions and reported very positive critical evaluations of the same[37].

An RCT protocol[38] was developed to plan the testing of a multimedia, self-directed, coping skills training intervention for patients with cancer and their partners. The areas identified in that study as requiring greater inclusion in interventions are strategies for communicating with healthcare professionals, addressing communication difficulties between partners, dealing with emotional reactions such as fear, uncertainty, anxiety and depression in both partners and learning new skills to overcome a lack of effective coping skills. In addition, other studies[51,67] collected participants’ opinions about interventions of this type, showing that it was considered beneficial.

To analyze the effectiveness (i.e. the extent to which an intervention achieves the intended result or outcome) of studies included, only evidence level I studies were considered, i.e. those with experimental designs according to JBI Levels of Evidence: Systematic Review of Randomized Controlled Trials (RCTs), Systematic Review of RCTs and other study designs, RCTs and Pseudo-RCTs[74].

In 2012 an RCT study[64] reported that the intervention group displayed a significantly greater fighting spirit compared with the control group and demonstrated the potential efficacy of internet-based programs, while also highlighting their limitations. In the same year, other RCT[60] was developed to examine the physical, emotional and social adjustment experienced by women with early-stage breast cancer who received psycho education interventions and demonstrated improvements in their overall health, psychological well-being and social adjustment.

In 2013, was showed that the intervention group which has been submitted to a multimodal comprehensive coping strategy program displayed significant improvements in overall QoL versus the control group and evidenced the potential of a self-management plan for breast cancer survivors[51]. Another study[39] also reported greater improvements in coping, self-efficacy, social QoL and caregivers’ emotional QoL in the intervention group.

Authors from other study[65] found that the main intervention effect was a significant self-efficacy in coping with cancer.
and negative mood, also demonstrating that the intervention was effective in helping breast cancer patients to be more confident in their ability to cope with stress. In another RCT study conducted in Australia(41), the authors suggested that a large number of distressed cancer patients and caregivers may significantly benefit from a single nursing psycho-education intervention session, having their distress outcomes decreased and positive adjustments increased over the course of the trial. The results of a study(62) that evaluated the effectiveness of a self-guided Web-based cognitive behavior therapy (CBT) intervention showed significant main effects for cancer-related distress, global QoL, physical function, role function, social function, anxious preoccupation and maladaptive coping.

Results from systematic reviews(55) are equally important to analyse because showed the effectiveness of psychological interventions in improving 12-month survival and reducing psychological symptoms in metastatic breast cancer patients. Another review study(37) showed that psychosocial interventions aiming to improve QoL, self-efficacy and knowledge and reducing distress, uncertainty and depression in men with prostate cancer produced only minor QoL improvements by the end of the study. Additionally, this study found no clear evidence that these interventions improved self-efficacy or reduced uncertainty, distress or depression. In line with this, authors from a different review(38) also reported the lack of evidence to state that psychosocial interventions promote global QoL for patients with head and neck cancer at the end of the intervention.

However, findings from previous studies have been refuted(4). The use of psychosocial interventions in cancer patients is supported by studies showing the relevance of cognitive, behavioural and social factors in facilitating adaptation throughout active treatment and cancer survivorship(4). Furthermore, psychosocial interventions may improve psychological adaptation, stress and adversity response and psychological adaptation by reducing negative affect and social disruption and increasing positive affect and QoL(4). The results of Portuguese study(66) showed an improvement in QoL, psychological distress, relationship functioning, and physical symptoms for both members of couples coping with breast cancer, supporting psychological interventions. Lastly, other investigators(38) found that CBT had a positive impact on psychological outcomes, particularly anxiety, depression and mood disturbance.

Although a large number of studies mention the importance of analysing interventions’ cost and cost-effectiveness, none did so. Only the authors of a study mentioned that the SurvivorCare(40) has the potential to considerably reduce individual suffering, but it is also likely to reduce the cost of health provision to this group of patients, because failing to meet patients’ psychological and supportive care needs results in longer hospital stays and higher medical costs. Similarly, a developed protocol(58) stated that the intervention cost-effectiveness would be directly assessed in the trial, but no results are known to date.

**DISCUSSION**

The majority of studies included in this review were performed by nurses and based their interventions on the theoretical contribution by *Transactional Model of Stress and Coping*(90). Although this model is derived from the principles of health psychology, and considering that autonomous nursing interventions should be based on nursing theories and expertise, this model is frequently used by oncological nurses due to its positive effect on cancer patients’ psychological health, especially when the intervention focus is illness adaptation, stress management and coping mechanisms(75–81). Nurses concerns with disease adaptation are not confined to the Psychology’s body of evidence, as evidenced by use of the *Adaptation Model of Nursing*(82–84) as theoretical framework for one of the studies included in this review.

Although many programs focusing oncological disease adaptation used *Educational therapy* and *Counselling* as interventional strategies, most of them used the *Cognitive-behavioral therapy*. Use of this technique by specialist nurses is very frequent, as exemplified in several studies, which investigated the impact of home-based exercises and cognitive behavioral therapy led by nurses on reducing cancer fatigue during and after chemotherapy(61), which used cognitive-behavioural therapy to improve mental health of women with breast cancer(85) and, which relied on cognitive-behavioural therapy for insomnia outcomes in women after primary breast cancer treatment(86).

The interest in using cognitive behavioral therapy in cancer care setting has expanded, as it has been shown to effectively provide a quick and accessible way to address psychological distress and improve QoL when compared with other interventions(87–88). Despite initially brought forward to handle depression(89), a number of studies have consistently evidenced the applicability of Cognitive-behavioral therapy in other settings, including anxiety and symptom management and coping approach.

Regarding the content and effectiveness of programs selected in studies retrieved, it becomes clear that nurses are in a privileged position to support psychological adaptation in cancer patients through interventions promoting and training coping ability, psychological adjustment, disease self-management, and reduction of anxiety and fear of cancer recurrence(17,41,44–46,48,43,47).

When comparing results from our review with other studies, similar conclusions can be withdrawn. This becomes evident from a study which focusing a psychoeducational nursing intervention program to enhance coping(90), and from another study which focusing a comprehensive coping strategy program to improve disease self-management and reduce treatment anxiety and side effects (mainly nausea and fatigue)(91).

Results from nursing interventions are consistent with those reported in most studies found in literature. A review with meta-analysis, with the objective of perceiving the effect of psychological interventions on anxiety in cancer patients, concluded that interventions targeting individuals at risk or suffering from psychological distress have relevant clinical effects(92). Similarly, a study reported that nurse-led cognitive behavioural guidance is effective in reducing anxiety and depression in cancer patients(93), and other study showed that telephone psychosocial nursing interventions are effective in
Nursing strategies to support psychological adaptation in adult cancer patients: a scoping review

According to scientific literature, cancer adaptation remains a complex, multidimensional and multifactorial phenomenon. Researchers in the field have revealed a keen interest in understanding the relation between psychological, emotional, familiar and social aspects of the adaptation process with patients’ functional ability, well-being and QoL. It is evident that well-adapted individuals, endowed with coping strategies for the challenges of the disease and its consequences.

This review allowed to identify nursing programs that promote adaptive responses in adult cancer patients, to identify vulnerabilities and difficulties related to nurses’ interventions and to recognize the need to produce more knowledge supporting the effectiveness and cost-effectiveness of nursing interventions, an often overlooked aspect of intervention research.

The present review is relevant, for it provides detailed information about nursing interventions in promoting cancer psychological adaptation, regardless of disease stage and tumor type. This work provides oncology investigator and/or nurse specialists with satisfactory evidence to support decision making while planning interventions, recognize difficulties and weaknesses intrinsic to nursing interventions in the area and recognize the need to increase knowledge that secures the effectiveness and economic impact of nursing interventions.

Overall, this review is very relevant for increasing nursing knowledge due to four main reasons: i) it provides evidence that coping strategies need to be implemented to deal with a variety of anxiety factors and enhance effective psychological adaptation; ii) it recommends psychological adaptation (particularly in the context of coping and anxiety) should be the main concern of nurses at every single stage of the disease and not be neglected in the survival phase; iii) it propose the idea that specialized oncology nurses are in a prime position to support cancer patients and their intervention appears to be effective in promoting cancer psychological adaptation; iv) it create awareness the adaptation changes have the potential to influence tumor growth, functional capacity, well-being and QoL.

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2015 del Manual de revisores del Joanna Briggs Institute para revisiones de alcance del JBI. Se realizaron búsquedas en doce bases de datos entre el 1 de enero de 2012 y el 31 de enero de 2019. **Resultados:** De 2203 estudios, se incluyeron 32. La evidencia se agrupó en cinco temas: procedimientos, medidas de evaluación de resultados, viabilidad de enfermería, efectividad y costo-efectividad. La terapia cognitivo-conductual fue la intervención más frecuente. Estas intervenciones se desarrollaron entre 5 y 10 semanas, incluyeron de 3 a 6 sesiones y duraron hasta 60 minutos. A pesar de una amplia gama de medidas de resultado empleadas, se identificaron tres áreas principales, ajuste y afrontamiento; estrés, ansiedad y miedo a la recurrencia; y calidad de vida. **Conclusión:** Esta revisión permitió identificar estrategias de enfermería para apoyar la adaptación psicológica en pacientes adultos con cáncer, evaluar vulnerabilidades y dificultades relacionadas con las intervenciones de enfermería y reconocer la necesidad de mayores conocimientos sobre la efectividad y la rentabilidad.

**DESCRIPTORES**
Neoplasias; Enfermería Oncológica; Adaptación Psicológica; Revisión.

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