Palliative Care Education to Enhance Informal Caregivers’ Skills in Caring for Patients with Cancer: A Scoping Review

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Abstract

BACKGROUND: Living with cancer causes stress for both patients and caregivers. Empowering family caregivers is critical in palliative care. It is well known that a lack of proper knowledge and training of informal caregivers is a barrier to palliative care provision at home.

AIM: This scoping review aimed to explore palliative care education to enhance informal caregiver skills in caring for a cancer patient.

METHODS: A scoping literature review was conducted with systematic searches in multiple databases – PubMed, Cochrane, PsycINFO, and SCOPUS (2000–2021). Studies were selected based on programs content and its impact evaluation.

RESULTS: The remaining 181 citations were examined at full-text level; 173 studies did not meet inclusion criteria, yielding eight included papers. Four papers focused on palliative care educational programs for family caregivers, and four papers included patients and caregivers. There was a diverse variation in the mode of delivery and duration of educational input. The programs offered an insight into the main elements of working with individuals in a palliative care bundle. Most studies reported participants improved their knowledge, self-efficacy, and competency and prepared for their roles.

CONCLUSION: The findings show the need for family caregivers for more regular and reliable palliative education programs. Randomized controlled trials with rigorous randomization processes, more significant sample numbers and more appropriate control groups focused explicitly on caregiver education may improve the evidence.

Introduction

Living with cancer causes stress for both patients and caregivers [1]. Patients suffer from disease burden, while caregivers suffer from the stress of caring for a loved one with a life-threatening condition. Many cancer patients will depend on family and friends (hence referred to as “caregivers”) to help them care. Cancer caregivers express physical and emotional exhaustion [2]. Many caregivers report feeling under-prepared when dealing with cancer symptoms [3], [4]. A lack of confidence and competence may exacerbate caregivers’ distress in offering the complex care [5], [6]. When caregivers’ psychological well-being suffers, patients’ well-being suffers as well [7]. When caregivers’ psychological well-being is impaired, patients’ well-being also worsens [7].

Empowering family caregivers is critical in palliative care. There is broad agreement regarding caregivers’ knowledge gaps, abilities, and attitudes [8], [9]. It is well established that a lack of proper knowledge and training is a barrier to palliative care integration [10]. The World Health Organization (WHO) has recommended that palliative care be integrated into existing healthcare systems, using the Public Health Model as a starting point [11]. The education of healthcare staff and the public is one of these model components. Other international organizations, such as the European Association of Palliative Care (EAPC), have previously emphasized the necessity of education and including the family caregiver issue [12], [13]. These guidelines should optimize health care, provide tools for best practices, and expand caregivers’ knowledge on critical issues. They should pay attention to the family and the role it plays. This could help family caregivers and healthcare professionals avoid stress or burnout [14].

Numerous research studies on palliative care have been conducted. However, research findings are worthless unless they are put into action. It is generally established that active teaching methods, such as teaching evidence-based practice, can result in higher levels of engagement than some traditional...
Furthermore, the effectiveness of interventions is often judged by the study quality rather than the influence on caregivers’ and patients’ health [16]. Its effect must be evaluated and monitored regularly. The significance of the family caregiver subject is well understood in academia. However, it is uncertain whether or not it has been offered in the educational field [17]. Overall, the purpose of this integrative literature review has been to explore palliative care education to enhance informal caregiver skills in caring for terminally ill patients, highlighting the approach to the topic of family caregivers and how it has been discussed. This review is part of a larger initiative that focuses on informal caregiver education and training.

Methods

The Preferred Reporting Items defined the reporting of this review for Systematic Reviews and Meta-Analyses (PRISMA) standards [18], [19]. This scoping review employed a framework developed by [20] and an integrated method to collect primary data from various study types: randomized and nonrandomized trials with or without comparison groups; qualitative, quantitative, and mixed-method.

Inclusion criteria

Only published research was considered, and the study period was confined from January 1, 2000, to August 1, 2021. English and Indonesian language restrictions were applied. The inclusion criteria were: (1) The study included oncology-diagnosed children, adolescents, and young adults as well as their families. (2) Describe a specific education program on palliative or end-of-life care. (3) the outcome was caregiver skill in caring for cancer patients in the terminal stage.

Searching strategies

Four databases were used in the search: PubMed, Cochrane, PsycINFO, and SCOPUS (2000–2021). Search terms were using indexed MeSH terms, included “palliative care” OR “palliative” OR “hospice” OR “end of life” AND “education” OR “training” OR “teaching” AND “family” OR “caregivers.” The search strategies were screened independently by two reviewers. The most recent search was conducted on August 1, 2021. Additional studies were checked in the reference lists of all included studies. The research team evaluated the risk of bias and assigned a quality rating to each paper based on a criterion specific to the study type (Table 1). In defining their contribution to the data synthesis, all included research were given equal consideration.

Risk of bias assessment

Reviewers were provided with an electronic folder including typical bias criteria for quality assessment ratings. Each reviewer examined the criteria for risk of bias in nonrandomized trials using the Effective Public Health Project tool (www.ephpp.ca/tools.html), developed by the Effective Public Health Project. Reviewers used the Consolidated Criteria for Reporting Qualitative Research criteria to analyze qualitative research for bias [18] and additional studies with reporting following Critical Appraisal Skills Programme standards (http://www.caspinternational.org/?o=1020). The funding source and the author’s acknowledgment of potential bias were investigated.
Table 1: Characteristics of included studies

| Author et al., Country, Year | Study design and Target audience | Mode of delivery, strategies and duration | Content | Evaluation method | Measures | Impact on health care professionals | Risk of bias |
|-------------------------------|---------------------------------|------------------------------------------|---------|------------------|---------|--------------------------------------|-------------|
| Bender et al., 2020, Canada    | Explanatory, mixed-method study design Survivors and caregivers | 24 h of self-study, facilitated online discussion, and collaborative activities | Peer navigator training program (PNTP). (1) The peer navigator role, functions, and boundaries (2) The care pathway and barriers to care (3) Social inequities and patient barriers | Post-test | Questionnaires included questions pertaining to (a) understanding of learning objectives (b) Self-efficacy for core competencies (c) eHealth literacy | A blended learning course is feasible and acceptable to PC survivors and caregivers and effective in increasing knowledge and competency for the peer navigator role | Low bias |
| Kizza et al., 2018, Uganda     | Pre/post-test, survivors and caregivers | First component, One-on-one training sessions (each lasting 45–60 min), Booklet, Second component, Each FGC was visited once every 4 weeks for a period of 12 weeks, The PSVs, using step-by-step approach as guided by the study algorithm, held self-focused discussions on the current ACPs condition and pain status, and checked on the FCGs progress with the caregiving role and pain management | FGC included two components: (a) Two interactive one-on-one training sessions. The content on characteristics and sources of cancer pain and management, and concepts such as addiction, tolerance, drug abuse, and dependence, “around-the-clock” and “as-needed” treatment. (b) The second component of the intervention that included three follow-up support home visits was conducted by a single peer support volunteer (PSV) | Post-test | Cancer Caregiver Self-Efficacy scale, Katz Index of independence, in activities of daily living, Family Pain, Questionnaire, The Preparedness for Caregiving Scale | The FCGs’ knowledge and self-efficacy for pain management increased significantly after the intervention. Conducting the education intervention in the FCGs and ACPs’ home setting was a safe, affordable, and an effective approach to supporting and empowering the FCGs, and enhancing access to quality cancer pain management | Low bias |
| Forbat et al., 2017, Australia  | Single-arm mixed-method feasibility proof-of-concept trial, informal caregivers | The manualized training followed a structured topical outline with standard activities for each teaching area | Palliative Caregivers Education Package (PCEP), consisted of two modules identified as priorities in the palliative literature on caregiver needs: nutrition/hydration and pain management | Post-test | Self-efficacy, measured using the CalSES tool, Cancer Caregiving Tasks, Consequences, Needs Questionnaire (CaTCoN), The Preparedness for Caregiving Scale | This innovative approach used distance learning to overcome the shortcomings of face-to-face delivery. Without relying on Internet access or travel to group sessions, the approach offers equitable learning opportunities which can be used by caregivers wherever they live. The approach enabled caregivers to feel more prepared for their role. Caregivers in the Enhanced-CT group had significant increases in self-efficacy for managing patients’ cancer symptoms and stress, and preparedness for caregiving immediately after training. A caveat for implementation, however, is the additional time required for this training that consequently will require the examination of nurse workload | Low bias |
| Hendrix et al., 2016, USA       | Two-armed, randomized controlled trial, patients and caregivers | The training lasted one to 2 h and, if desired, caregivers could spread this out over two sessions | Enhanced caregiver (CT) training has two components: management of patient symptoms and caregiver stress management | Post-test | Caregiver self-efficacy, The Preparedness for Caregiving scale, Profile of Mood States (POMS) anxiety sub-scale, The Rapid Estimate of Adult Literacy in Medicine | Caregiver self-efficacy | Low bias |
| Lee et al., 2016, Taiwan        | A two-group comparative design with repeated measures, caregivers | 30–40 min face-to-face sessions at approximately 2-week intervals until the patients’ death | Integrated caregiver support program that included coping strategies, assistance, recourses, and education (CARE) 1. Develop an individual care guide for FCGs 2. Provide education regarding symptom management, including symptom monitoring, symptom control, hospice care, ADL support 3. Help to relieve patient suffering (physical, psychological, and spiritual sign and symptoms.) 4. Help to find support system of families 5. Improve communication and negotiation and reduce conflict within families 6. Enhance problem-solving skills | Post-test | Caregiver Self-efficacy Scale | The caregiver support intervention can increase caregiver self-efficacy and reduce the subjective caregiving burden in the 3 months before the death of advanced cancer patients. The intervention is, therefore, an appropriate strategy for supporting caregivers in the last 3 months of a patient’s life | Low bias |

(Contd...)
Table 1: (Continued)

| Author, country, year | Study design and Target audience | Mode of delivery, strategies and duration | Content | Evaluation method | Measures | Impact on health care professionals | Risk of bias |
|-----------------------|----------------------------------|------------------------------------------|---------|------------------|---------|-------------------------------------|------------|
| Marshall et al., 2013 USA | Pre- to post-test | Sport-test co-survivors | Each class consisted of 3 h of informational and skill-building modules or sessions | Classes were delivered collaboratively by a trained counselor and a promotor, and provided a) Evidence-based cancer information about coping with cancer and caregiving b) Explanation of depression as a treatable illness and not unexpected with cancer, and c) Information about the risks of breast cancer | Post-test | • Cancer Knowledge Questionnaire | By making informed, evidence-based, culturally relevant cancer-related information and support more readily accessible to family members, health care providers may reduce stress felt by co-survivors and enable them to more readily and effectively assist their loved ones with cancer | Low risk |
| Hendrix et al., 2013 USA | Pre- to post-test | Cost-test patient dyads | The program was manualized, including a book for caregivers and The caregiver training followed a structured topical outline with standard activities for each teaching area | The intervention provided caregivers training on strategies for managing patients’ cancer symptoms, with four major components: prevention of infection, pain control, maintenance of nutrition, and adequate elimination | Post-test | • Long’s self-efficacy scale | Caregiver self-efficacy in-home care and symptom management significantly increased after receiving an individualized caregiver training. The increase in self-efficacy appeared to have been sustained after 4 weeks of patient’s hospital discharge. This study finding has important implications on how nurses prepare patients and their caregivers for hospital discharge. Participants also reported many benefits associated with attending the program, including being more informed about services, feeling more supported, and being more prepared. For many family caregivers, time was the main obstacle to attending the program due to work and/or family commitments. It may be that a shorter version of the program could be offered or, alternatively, a multimedia version of the program could be developed for caregivers to watch at a convenient time | Low risk |
| Hudson et al., 2009 Australia | Mixed method | Primary family carers of patients with advanced cancer | The education sessions were semi-structured and included a mix of presentation and group work. Carers received a copy of a Carer Guidebook designed specifically for preparing family carers for the role of supporting a dying relative | The main content of the Carer Group Education Program (CGEP) was based on a psycho-educational intervention with individual home-based family carers. (1) the typical role of a carer in the palliative care context, including an overview of the services available from the palliative care team, local doctor, and other support services; (2) strategies for self-care (carer well-being) and for their relative/friend (e.g., symptom management); and (3) strategies or caring for a person when death is approaching, and overview of bereavement supports for the family carer | Post-test | • Carer Competence Scale; Preparedness for Caregiving Scale; Family Inventory of Needs; Rewards for Caregiving Scale | Participants also reported many benefits associated with attending the program, including being more informed about services, feeling more supported, and being more prepared. For many family caregivers, time was the main obstacle to attending the program due to work and/or family commitments. It may be that a shorter version of the program could be offered or, alternatively, a multimedia version of the program could be developed for caregivers to watch at a convenient time | Low risk |

Results

Search results

A total of 1495 studies were identified for inclusion in the review. After removing duplicates, 1210 remained. Of these, 1009 studies were discarded at an abstract level. The remaining 181 citations were examined at the full-text level. One hundred seventy-three studies did not meet inclusion criteria, yielding eight included papers. The most common reason for exclusion at the full-text level included did not investigate palliative care education for enhancing caregivers’ skills in caring for terminally ill patients. PRISMA flow diagram is available in Figure 1.

Characteristics of included studies

Four papers focused on educational initiatives for family caregivers [21], [22], [23], [24] and four papers included patients and caregivers [25], [26], [27], [28].

Four studies are from the [25], [26], [27], [28], two from Australia [21], [23], one from Africa [24], and one from Taiwan [22]. The geographical spread highlights the worldwide attention to palliative care and the achievements in implemented education initiatives.

Modes of delivery and duration

There was a diverse variation in the mode of delivery and duration of educational input. Different courses have been identified using educational input following or adapting previously published
Teaching and learning strategies

The studies provide insight into teaching and learning practices via the lens of a “lesson plan”. These were separated into lectures emphasizing an explanatory approach, discussion groups, simulation training, videos, and workbooks. Several studies have indicated that information on teaching and learning practices is not widely shared.

The focus of education input

The programs offered an insight into the main elements of working with individuals at a palliative care bundle. Patient-centered topics included symptom management, communication, and complex interactions; nutrition and hydration; elimination; spirituality and bereavement, and dying and cultural complexity.

Means of evaluating learning and feature outcomes

Three studies were mixed-method studies [21], [23], [25], one intervention study used pretest-posttest [24], [26], [27], one study used two-group comparative design [22], and one study used a two-armed, randomized controlled trial [27]. As a measure, scales and questionnaires were tested previously by other authors but other settings or cultures, interviews, and focus groups. Most studies reported that participants improved their knowledge, self-efficacy, and competency and prepared for their roles. Three research incorporated qualitative data in written responses from participants [23], [25], [30]. Making skilled, evidence-based, culturally sensitive cancer information and assistance more accessible to family members can alleviate co-survivors stress and allow them to more readily and effectively aid their disease loved ones [26].

Discussion

In general, the content of these courses tended to incorporate parts of care that have been suggested in policy documents such as the EAPC [12], [13], the WHO [11], and other organizations [31], which is a favorable consequence. The engagement of family members as caregivers, on the other hand, is underreported in the development of the content. Educational programs must include a focus on family carers. While palliative care initiatives have grown in popularity, family caregiver challenges have received little attention. In addition, only a few studies have shown that a comprehensive education enhancement improved the ability to give extraordinary, compassionate palliative care regardless of geography, financial situation, political views, religion, race, or ethnic origin.

Even though most palliative care education programs included pretest and post-test results, these were associated with participants’ improvements in caring for cancer patients. Only a few research attempted to determine what participants learned. The most frequently measured outcomes in palliative care were knowledge, self-efficacy, and preparedness. The majority of research found an improvement in knowledge and self-efficacy among participants. However, only a few research studies conducted a follow-up study to examine the implementation of learning to practice. It is essential to consider the educational impact that these programs have on caregiver practice. The time it will take for the changes to take effect is unknown [16].

Our findings should be evaluated in light of the study’s limitations, which we have identified. Meta-analysis or meta-synthesis could not synthesize the results because of the heterogeneity in delivery model, length, and outcome variables among studies. A random allocation was employed in only one trial. As a result, many studies were prone to selection bias, which led to overestimating intervention effects. Despite this, they continue to provide helpful information.
Conclusion

Our findings point to various areas where more research should be done. Randomized controlled trials with rigorous randomization processes, more significant sample numbers and more appropriate control groups focused explicitly on caregiver education may improve the evidence. These studies should also collect data on how the instructional program affects changes in caregiver practice. Development of standardized and validated instruments to measure impact in practice, employing pretest and post-test or post-tested time-series designs, should be further researched. Furthermore, new activities related to cost-effectiveness and short- and long-term clinical effects are required. Despite the progress made in establishing an evidence base for caregivers in palliative care and respect for cultural diversity, palliative care requires specific resources as well.

Implications

The findings indicate the need for more regular and reliable palliative education programs. Discussions about educational material in this care area can also be bolstered by increased attempts to foster multimodal learning. Increased participation of the general public and service users in curriculum creation could improve the relevance of courses even further. An education and training program that is tailored to a particular purpose and practice is required. Gaps in caregiver training must be discovered, analyzed, and filled in to achieve this goal. More studies should be conducted to broaden our understanding and fill these gaps. Only then can we have a positive impact on future palliative care services. The dissemination of existing projects can aid in the development of a greater understanding of this topic.

Authors Contributions

CE contributed to the conception, study design and manuscript drafting. All authors contributed to data collection and data analysis, the absolute agreement and kappa statistics have been calculated for each data extraction category by two of the researchers. All authors read and approved the final version of the manuscript.

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