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Challenges Encountered and Methods Used by Healthcare Providers in Psychosocial Support for Pediatric Cancer Patients

Metropolia University of Applied Sciences
Degree Programme in Nursing
Bachelor's Thesis
20 March 2023

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Title	Challenges Encountered and Methods used by Healthcare Providers in Psychosocial Support for Pediatric Cancer Pa- tients
Number of Pages	40 pages + 2 appendices
Date	20 March 2023
Degree	Bachelor of Health Care
Degree Programme	Degree Programme in Nursing
Instructors	Kirsi Talman, Principal Lecturer

Psychosocial support is a concept utilized by healthcare providers to grant emotional and social assistance. Pediatric patients experience their condition differently, and healthcare providers must understand and recognize each patient from an individual point of view. Without proper psychosocial support, pediatric patients diagnosed with cancer may struggle to cope with their condition. Successful psychosocial support improves patients' quality of life.

The purpose of this literature review was to describe the psychosocial methods used and challenges faced by healthcare providers when caring for a pediatric cancer patient. The aim was to produce a summary of psychosocial support methods provided to pediatric patients diagnosed with cancer as well as the challenges that healthcare providers faced while providing them. The data was analyzed with some methods of inductive content analysis.

The results showed the need for psychosocial support methods. The benefits of play, animal-assisted therapy, and social activities in promoting children's psychological well-being and promoting positive nurse-patient relationships were recognized. The challenges faced were a lack of resources and personal motivation among healthcare providers.

The results lead to conclusions which emphasize the importance of comprehensive psychosocial support for pediatric cancer patients and highlight the different methods and challenges faced by healthcare providers in providing such support.

Keywords	Pediatric cancer, Healthcare providers, Psychosocial support
K AVWORDS	Padiatric cancar Haaithcara brovidare Pevenosociai siinnort
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Tekijät	Julia Mäkinen ja Noora Rguibi
Otsikko	Hoitotyön ammattilaisten käyttämät menetelmät syöpää sairas- tavan lapsen psykososiaaliseen tukemiseen, ja heidän haas- teensa
Sivumäärä	40 sivua + 2 liitettä
Aika	20.03.2023
Tutkinto	Sairaanhoitaja (AMK)
Tutkinto-ohjelma	Degree Programme in Nursing
Ohjaajat	Kirsi Talman, yliopettaja

Tämän kirjallisuuskatsauksen tarkoituksena oli selvittää millaisia erilaisia psykososiaalisia menetelmiä hoitotyön ammattilaiset käyttävät tukeakseen syöpää sairastavaa lasta, sekä mitä haasteita he kohtaavat psykososiaalisen hoitotyön aikana.

Tavoitteena oli koota menetelmistä ja haasteista kattava tiivistelmä, josta syöpää sairastavan lapsen hoitava henkilökunta voisi hyötyä, sillä tällä hetkellä tieto psykososiaalisista menetelmistä on hajanaista, erityisesti lasten ja nuorten hoitotyön puolella.

Katsausta varten, tutkimuksia haettiin kolmesta eri tietokannasta, joita olivat Cinahl, Medline, sekä PubMed. Kirjallisuuskatsaukseen valittiin 10 tutkimusta, joista kaikki olivat julkaistu englannin kielellä.

Tutkimukset analysoitiin induktiivista sisällönanalyysia käyttäen. Katsauksen tuloksena löytyi useita erilaisia psykososiaalisia menetelmiä, joista osa oli yksilökeskeisiä ja osa ryhmäkeskeisiä menetelmiä, kuten ulkonäön parantamiseen liittyvät aktiviteetit ja eläinavusteinen terapia. Tutkimuksista löytyvät haasteet olivat muun muassa resurssien puute, motivaatio, sekä puuttuva koulutus.

Jatkotutkimuksiksi suosittelemme kestävien ja tehokkaiden psykososiaalisten tukiohjelmien kehittämistä, jossa otetaan huomioon potilaan ja perheen yksilölliset tarpeet. Lisäksi tulevissa tutkimuksissa tulisi käsitellä millaisia psykososiaalisia resursseja on tarjolla kehittyvissä maissa.

	Lasten ja nuorten syöpä, Hoitotyön ammattilaiset, Psyko- sosiaalinen tuki

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1 Introduction

Psychosocial support is one of the key concepts when it comes to caring for a pediatric patient diagnosed with cancer. Even though the concept is taught to healthcare providers, execution of psychosocial support is lacking. Due to their condition, patients can have heavy emotional distress and declining mental health. In addition to this, the patient's family is also in need of guidance, assistance and comfort. Therefore, the need for psychosocial support cannot be overlooked by healthcare providers. Ranging from psychological to spiritual and social needs, healthcare providers need to actively and comprehensively care for the patient and their immediate family. Yet, there is dissatisfaction when it comes to emotional support and information provided. (Sultana et al. 2021: 442.)

Every patient experiences their condition differently. Factors which affect this include the patient's age, their support system, and the patient's own thoughts. Depending on the age of when they were diagnosed, pediatric cancer patients determine different levels of importance for different aspects of their condition. Considering prepubescent individuals, identity, appearance, and disassociation from parents are factors heavily affecting their life. Combining these factors with a cancer diagnosis and potential palliative care may alter the trajectory of their life and causes many to lose the identity they were creating for themselves. For younger pediatric patients, the concept of cancer, treatments and premature mortality may be too difficult to understand. (Zebrack et al. 2007: 376.) Healthcare providers can find it challenging to evaluate the psychosocial aspects of a situation and determine the specific type of support required for each child's unique circumstances (Laronne et al. 2021: 1618).

The pediatric patient's age alters the way they view their own beliefs and attitudes. In addition, they may see topics like religion, family, and medical treatment in a variety of ways. The struggle with the need for independence can contribute to the way the patient behaves with the healthcare provider, and exactly how much support they are willing to accept. Furthermore, different racial or ethnic backgrounds and gender identities may make it difficult for a healthcare provider to relate to the patient, and therefore struggle to actively and comprehensively grant proper psychosocial aid. (Fernandez et

al. 2019: 3.) Successful non-medicinal support can help the patient cope with their condition and improve their quality of life (Zebrack et al. 2007: 381).

2 Background

2.1 Pediatric Cancer

Pediatric cancer is a major cause of mortality, particularly in developed countries. In 2019, a total of 291,319 new cases of childhood cancer were reported worldwide, resulting in 98,834 deaths, while the number of prevalent cases reached 1,806,630. Apart from the physical challenges posed by the disease, patients undergoing cancer treatments are often confronted with a multitude of difficulties, including escalating financial burden, limited work, and social opportunities due to physical impairments, as well as psychological disorders such as depression and anxiety. These factors inevitably result in a decrease in quality of life if they are not treated. (Wu et al. 2022: 234.)

A substantial portion of pediatric cancer patients experience several emotional and behavioral changes following their diagnosis. These changes range from fear and anxiety about the recurrence of cancer, to chemotherapy related appearance changes, to even death. Furthermore, patients experience disturbed relationships with their peers due to the time-consuming treatment or behavioral changes, such as difficulty controlling emotions or verbal and physical aggression. Finally, patients suffer from a decrease in social activity compared to their healthy peers. These findings demonstrate the far-reaching and complex effects of cancer on a patient's psychosocial wellbeing. Understanding these impacts and the different methods of psychosocial support is critical for the development of effective interventions to support patients and families affected by a cancer diagnosis. (Yousif et al. 2021: 81.)

Pediatric oncology is a medicinal field diagnosing, supporting and caring for a child with cancer. This area includes all patients under the age of 18 who are suspected of having or are already diagnosed with a type of malignant tumor. Pediatric oncology is considered a harsh environment for healthcare providers due to the emotional strain of car-

ing for the child and supporting their family. Oftentimes, financial and emotional counselling and burden is placed upon the healthcare provider. Furthermore, pediatric oncology is the field in medicine where psychosocial care and support are most often seen and used. (Dyrmyshi et al. 2022: 907.)

2.2 Psychosocial Support

Different supporting mechanisms are used by healthcare providers to alleviate pain and increase the patient's comfort and health. These include any actions ranging from eating and hygiene assistance to emotional aid. Nurses and other healthcare providers perform supportive tasks daily. For a successful work performance, granting proper support towards the patient is a necessity. (IFRCPS 2014: 23.)

Psychosocial refers to the psychological, spiritual and social needs of a person, and how they relate to others around them. A combination of the words psychology and society, it is a key term for healthcare providers as they play a large part in making sure those needs are fulfilled for the patient. The concept of psychosocial support revolves around communication between the patient and the healthcare provider. Nurses, doctors, social workers and other healthcare providers alike must understand and recognize the patient from an individual point of view. The patient has their own wants and needs, their own support circle, their own ideas on the progress of their journey, and the ability to make their own decisions. (IFRCPS 2014: 52.)

Psychosocial support is an essential component of the care of pediatric oncology patients. Kazak et al. (2017: 707) noted that assessment should be standard in the care of pediatric cancer patients. This is because the diagnosis and treatment of cancer can have a significant impact on the emotional and social wellbeing of patients and their families. Additionally, addressing the individual psychological and social needs of pediatric cancer patients can lead to improved quality of life, reduced stress and anxiety, and better overall health outcomes. (Kazak et al. 2017: 710.)

Various methods and strategies are employed by healthcare providers to provide psychosocial support to pediatric oncology patients and their families. These include group therapy as well as individual based interventions such as art therapy and technology-based interventions. (Abdulah & Abdulla 2018; Suzuki & Kato 2003.)

However, challenges such as limited resources and personal motivation may impact the provision of effective psychosocial support. (Laronne et al. 2021: 1612.) Despite the evidence that supports the methods mentioned above, we think that there is a need for more research. By considering the limitations and scattered information about the methods, it is necessary to determine worldwide standards for psychosocial care and to compare the effectiveness of the methods. Furthermore, it is important to determine which are the most beneficial for different patients based on age or individual need.

3 Purpose, Aim, and Research Questions

The purpose of this literature review was to describe the psychosocial support methods used in pediatric oncology as well as the challenges encountered from a healthcare provider's perspective.

Our aim was to produce a summary of psychosocial support challenges and methods that healthcare providers, particularly those who work with pediatric cancer patients, can use and improve the quality of care they provide.

This literature review uses the term "healthcare providers" to refer to people or groups involved in providing psychosocial support. These include doctors, nurses, social workers, psychologists, and hospitals or clinics.

Our research aimed to answer the following questions:

- 1. What are the different methods used by healthcare providers to provide psychosocial support to pediatric patients diagnosed with cancer?
- 2. What challenges do healthcare providers encounter while using the methods of psychosocial support?

4 Methods

4.1 Design

A literature review is a way to summarize and analyze literature pertinent to a specific topic. Its purpose is to provide current information on a specific area of research and promote theory development by incorporating results and perspectives from various evidence-based data. It must include a clear and thorough search and literature selection strategy. Furthermore, a literature review should be void of personal opinions and biases. This research will be conducted as a descriptive literature review. (Cronin, Ryan & Coughlan 2008: 38.)

The first step in conducting a literature review is to formulate a research topic. The topic should be refined based on available data and personal interest. We decided on exploring factors related to psychosocial support of pediatric oncology patients. After the topic was selected, the retrieval of literature began. In this phase, relevant databases were selected and keywords for the data search formulated, to find the most relevant information to answer our research questions. Once the appropriate data was collected, we summarized and analyzed it using inductive content analysis. The results were then written based on the findings. (Cronin, Ryan & Coughlan 2008: 38.)

4.2 Data Search and Selection

To initiate the search for relevant data, we formulated search terms utilizing the PICo and facet analysis methods (Appendix 1). Primary sources were examined to retrieve the required data, and the databases CINAHL, Medline, and PubMed were employed (Table 1). We limited the search to peer-reviewed articles published within the timeframe of 2015-2023. Finally, we examined the reference lists to identify additional sources that were not initially identified. The search yielded a total of 750 relevant articles.

Table 1. Results of the Database Search

Database	Search terms		Selected based on abstract	Selected based on full text

CINAHL	Healthcare providers AND Psychosocial sup- port AND P*diatric oncol- ogy	N= 20	N= 10	N= 7
PUBMED	Healthcare providers AND Psychosocial sup- port AND P*diatric oncol- ogy	N= 18	N= 7	N= 2
MEDLINE	Healthcare providers AND Psychosocial sup- port AND P*diatric oncol- ogy	 N= 15	N=4	N=1

The selection of data can significantly impact the integrity of the findings. If the collection of data is primarily driven by cost and convenience rather than its potential to adequately address the research questions, the resulting data may be subject to integrity issues (Northern Illinois University). Therefore, it was essential to exclude any data that did not align with our study's purpose and aims. To ensure the elimination of irrelevant or inapplicable data during the search process, we established a set of inclusion and exclusion criteria (Table 2). To be deemed relevant, the article had to be published within the last eight years and the results had to be related to our research questions. The detailed selection process was outlined using a PRISMA diagram (Appendix 1.1). (Page et al. 2021).

Table 2. Inclusion and Exclusion Criteria

Inclusion Criteria	Exclusion Criteria
Population including healthcare providers in pediatric oncology settings	Population including only guardians and pediatric patients
Peer reviewed studies	Studies focused only on guardian experiences
Studies published during or after the year 2015	Study subjects being cared for in homecare
Articles describing psychosocial support methods and challenges, provided by healthcare providers to children diagnosed with cancer	Studies in languages other than English
Primary studies	Dissertations and literature reviews

After reading the titles, abstracts, and full texts of the articles that were identified using the inclusion and exclusion criteria and research questions, we selected 10 final articles.

4.3 Data Analysis

The data analysis method used in this review was qualitative content analysis. Content analysis is a method of data analysis that provides a condensed presentation of data. It can be used in either an inductive or deductive way. (Elo & Kyngäs 2008: 115.) The purpose of using an inductive approach is to condense a wide range of text data into a summarized form and to define direct links between the study objectives and the findings derived from the data (Thomas 2006: 237).

We chose the inductive content analysis (ICA) method as the purpose of the literature review was to describe summarized data. The first step was to familiarize ourselves with all the selected data (Appendix 2.1) and comprehend it to gain an understanding of what the literature is about before beginning coding. The second step involved highlighting sections of text in each study and using these sections to identify and merge similar pieces of text both within a study and between other studies. Each study was coded multiple times, resulting in refining the coding each time. Since this is an inductive coding, new aspects in the data were identified each time further studies were analyzed. (Vears & Gillam 2022: 127.)

The first round of coding was about organizing the data into a broad conceptual picture. This was implemented by highlighting all text related to the research questions to identify and label sections according to their broader meaning or category. When looking for broader categories, the text was read carefully to understand what the section was about. The goal of the analysis was to answer the research questions using the broad categories. (Vears & Gillam 2022: 126.)

The second coding step was to look closely at the text in each of the sections assigned to a particular category. This allowed the division of the data into smaller parts without losing any original words or ideas from the text. A category was chosen, and all the highlighted text (meaning units, Appendix 2.1) related to that category was looked at carefully from each study. Each of these sections needed to be coded in a meticulous

way by going through the text sentence by sentence. The purpose was to think about what the text said in detail and to mark it with a new code that compendiously describes it, thus, creating subcategories of the broader categories. (Vears & Gillam 2022: 127.) The review resulted in a total of 22 sub-categories.

After all the text had been coded into subcategories, the subcategories were processed further. Similar subcategories were combined into one, while different subcategories remained independent. Interpreting the data was the most important step in the analysis process. It was a process of synthesizing and connecting the categories to create a description that provides an overall answer to the research question. The goal of using ICA was to stay closer to the study purpose and to produce an analysis that provides an adequate answer to the research questions. (Vears & Gillam 2022: 111.) The coding process was completed by both authors to avoid any biased results.

5 Results

5.1 Summary of the Data

This review of literature incorporates a total of 10 research articles sourced from four countries, the United States, Brazil, Germany, and Israel. Six of the identified publications utilized qualitative research techniques, two employed mixed methods, one adopted a randomized controlled trial methodology, and one was part of a larger randomized controlled trial.

5.2 Methods Used by Healthcare Providers to Perform Psychosocial Support

The findings revealed 10 generic categories and 22 subcategories (Table 3.) that covered the various techniques and challenges that healthcare providers confront while delivering psychosocial support to pediatric cancer patients. These sub-categories indicate the different strategies and obstacles that healthcare providers use to support pediatric cancer patients' psychological and social needs.

The analysis identified several psychosocial support methods, including play, psychoeducation, social activities, animal-assisted therapy and self-expression, as well as

a patient-centered approach. However, healthcare providers faced several challenges, including insufficient resources, limited healthcare education, and difficulties with adapting to the situation.

Table 3. Results of Inductive Content Analysis

Sub-category	Generic category	Main category
Playing distracts patients from hospitalization	Playing	
Social benefits of playing		
Benefits of screening	Screening	
Importance of screening		
Written psychoeducation	Psychoeducation	
Interactive psychoeducation		Methods used by
Social activities in the hospital	Social activities	healthcare providers for psychoso-
Social activities outside the hospital		cial support
Social activities related to self-expression		
Animal-assisted therapy improved patients'	Animal-assisted ther-	
mental state	ару	
Animal-assisted therapy is a distraction from	_	
hospitalization		
Animal-assisted therapy improved communi-	_	
cation		
Encouragement of self-expression	Use of self-expression	
Gender differences in self-expression	_	
Increased well-being of patient	Patient-centered ap-	
Increased well-being of healthcare provider	proach	
Challenges with different personalities	Personal motivation	Challenges faced
Challenges relating to patient's age	-	by healthcare pro-
Challenges with organizational resources		-

Challenges with organizational coordination	Lack of resources	viders while provid-
		ing psychosocial
Challenges with adapting	Healthcare education	support
Challenges with education		

5.2.1 Screening Tools

Screening tools are necessary to ensure that pediatric patients diagnosed with cancer receive appropriate and cohesive psychosocial support. After being diagnosed, patients often experience issues such as distress, social isolation and loss of individual character. Screening tools allow these challenges to be identified, and it is the first psychosocial support method used when beginning to treat a young patient. (Desjardins 2019: 1717.)

Screening tools can help healthcare providers identify emotional and psychological needs which younger patients can have difficulty expressing. The results highlight the need for all healthcare providers to use screening tools for more comprehensive and all-encompassing care for pediatric patients. Identifying these needs prevent negative outcomes such as increased anxiety and depression. Screening tools target specific emotional needs, focusing on each child's individuality. As treatment for a diagnosed patient can be a long process, tools such as PAT and PLLC can monitor changes over time and allow healthcare providers to adjust the psychosocial support methods accordingly. (Di Battista 2015: 394.)

The process of screening also enhances care adherence and attendance by promoting family functioning, ultimately leading to improved psychosocial outcomes and a higher quality of life for patients (Kazak et al. 2017: 704). Neglecting to screen for psychosocial issues may result in undiagnosed and untreated problems, which could lead to poor medical and psychosocial outcomes for the patient (Kazak et al. 2017: 707). Overall, screening represents a pivotal tool in the proactive psychosocial care of a pediatric cancer patient (Kazak et al. 2017: 704).

5.2.2 Psychoeducation

Psychoeducation is a method of educating patients and their families by providing information that enables them to better manage their disease and improve their psychosocial adaptation to the illness (Wiener et al. 2015: 12). For pediatric cancer patients' psychoeducation is critical, as it assists them in understanding their disease and its treatment, alleviates uncertainty, and empowers them to make informed decisions (Thompson & Young-Saleme 2015: 31).

The analysis results indicated that psychoeducation is delivered through a range of resources, including books, educational support groups, camps, and educational events. These findings suggest that healthcare providers are making concerted efforts to provide psychoeducation to pediatric cancer patients and their families using a range of resources.

5.2.3 Playing

The role of play in pediatric care has been increasingly recognized as a crucial component of children's cognitive and social development. As such, it has become an essential element of psychosocial care in hospital settings (Soares et al. 2016: 1051).

The benefits of playing in this context are multifaceted. Firstly, play can help children maintain a sense of normalcy despite being in a hospital environment, promoting their psychological well-being (Soares et al. 2016: 1050). Additionally, it can facilitate social interactions between patients and healthcare providers by increasing children's confidence and sense of autonomy (Soares et al. 2016: 1048), ultimately leading to better health outcomes. Furthermore, play can enhance children's social well-being and happiness by providing a necessary distraction from the stress of hospitalization (Soares et al. 2016: 105).

5.2.4 Animal-assisted Therapy

The implementation of play in pediatric care can also involve animal-assisted therapy (AAT), which is a therapeutic intervention that incorporates interactions between patients and trained animals (American Veterinary Medical Association).

AAT is similar to play in that it has positive effects on patients, including improvements in their mental state and confidence. The findings of the analysis indicate that AAT can improve the mental state of pediatric patients and serve as a distraction from hospitalization. It can also encourage timid patients to engage with others and communicate with healthcare providers (Moreira et al. 2016: 1125), thereby promoting positive nursepatient relationships. (Moreira et al. 2016: 1123.)

5.2.5 Social Activities

Although childhood can be a challenging phase for a growing child, the presence of a life-threatening illness such as cancer exacerbates these difficulties. This is primarily due to the prolonged and demanding treatment process associated with the disease, which often involves frequent hospitalizations and polyclinic visits. As a result, children with cancer may become increasingly isolated from their social environments, including school, which can negatively impact their friendships and overall social life. (Efe et al. 2022: 95.) Therefore, it is important to provide a multitude of personalized activities for patients to promote their psychosocial wellbeing.

The results of the analysis highlighted two main categories: self-expression through activities and social activities. Under the self-expression through activities category, it was found that self-expression methods were provided through group activities related to beauty for girls and through written or video diaries for boys. This subcategory highlights the use of a patient-specific support method. The social activities category revealed that various social activities were offered for the patients, including scheduled activities in playrooms, support groups, yearly hospital socials and retreats. Individual measures, such as beauty-related activities were taken for patients who were distressed by their changed appearance because of the cancer treatments (Williamson & Rumsey 2017: 51).

These results emphasize the importance of socialization for patients, especially those who may experience isolation due to frequent hospitalizations.

Overall, the results highlight the importance of social activities as a part of psychosocial care for pediatric oncology patients. These activities provide opportunities for self-expression and socialization, which are crucial for a child's development and well-being. The results also underline the need for patient-specific support methods to cater to individual needs and promote positive outcomes.

5.2.6 Patient-centered Approach

There are 11 attributes mentioned which growing children have that should be understood by healthcare professionals in order to grant proper psychosocial support. Included in these attributes are empathy, maturity, social engagement, supportive background and self-awareness. (Cho et al. 2021: 10.) For a healthcare provider to give comprehensive and meaningful social, psychological and emotional support for a diagnosed child, these attributes should be understood for each individual patient. Each child is in a different situation with their diagnosis and cancer stage. Furthermore, each child has individual opinions and values, placing a different amount of importance on topics such as a supportive background and their personal maturity. (Laronne et al. 2021: 1613.) Therefore, it is crucial for healthcare providers to promote patient empowerment by working with them to define problems, prioritize goals, develop care plans, and consistently monitor results (Fernandez et al. 2019: 3).

When describing a patient, a nurse exclaimed: "They just always leave everybody smiling when people leave the room, even when they were not feeling good. When I see their personality, I think like, 'how can I inspire other patients, have the outlook they have?" Patient's accomplishments allow healthcare providers to feel rewarded (Cho et al. 2021: 13). This lessens the emotional burden of caring for a pediatric patient diagnosed with cancer. When witnessing achievements such as the aforementioned, healthcare providers strive for further emphasis on emotional support and individuality. Through seeing the positive effects psychosocial support has on children diagnosed with cancer, healthcare providers are willing to pursue similar methods with more patients, instead of solely focusing on medicinal means. (Cho et al. 2021: 16.)

5.3 Challenges Faced in Psychosocial Support Performed by Healthcare Providers

5.3.1 Lack of Resources and Poor Understanding

Arguably one of the most important aspects of psychosocial care is understanding the patient. Children who have been diagnosed with cancer are in different stages of their childhood and have a range of emotional capacities, causing difficulties in providing fitting psychosocial support. Cho and others (2021: 10), further emphasizes the need to

understand a child's emotional development and methods in which healthcare providers may non-medicinally improve a diagnosed child's wellbeing. Moreover, a cancer diagnosis may affect the child's life even after symptoms have been eliminated and the patient is healthy (Fernandes et al. 2019: 7). Therefore, promoting proper psychosocial care is necessary to allow the child to continue with a satisfactory life.

The results (Table 3.) showed that healthcare providers lack proper resources (Laronne et al. 2021: 1617). Understaffing results in additional work, oftentimes overwhelming the healthcare provider. As a result, no additional time is allocated for workers to recognize children's different emotional needs. The main role, in this case of a nurse, is to alleviate the child's pain medicinally. This can cause a tendency to treat patients in a similar fashion, ignoring one's individuality and differences in needs. (Laronne et al. 2021: 1616.)

A study conducted found that children understood the importance of expressing their wishes, yet half of the participants chose not to do so. (Laronne et al. 2021: 1612.) This highlights how healthcare providers may not realize the specific wishes of patients and base their treatments on their own assumptions and beliefs.

5.3.2 Personal Motivation

Continuing with the same study, another care challenge rose due to healthcare providers individual personalities (Laronne et al. 2021: 1613). Reactions to grief and the ability to work through stressful and anxiety-inducing situations are handled differently. The study highlighted how participants felt scared of coping with a child's death, and henceforth withdrew from the patient, preventing them from receiving proper psychosocial and emotional care. With children being in such a vulnerable state, many participants feared saying the wrong thing, or having to explain difficult topics such as pre-mature death to the child. (Laronne et al. 2021: 1618.)

It is further argued how not every healthcare provider can deal with pediatric oncology patients. Empathetic, compassionate healthcare providers tended to gravitate towards a more emotional approach, whereas overly optimistic individuals focused on medicinal care. Additionally, the study found how healthcare providers own upbringing, views on mortality, and personal values affected palliative care. The importance they placed on

each respective area reflected on the care given to the pediatric patient. (Laronne et al. 2021: 1619.)

6 Discussion

6.1 Main Results

The purpose of this literature review was to identify the methods used by healthcare providers to perform psychosocial support for pediatric cancer patients and the challenges that healthcare providers face while providing them.

The results of the literature review showed that healthcare providers use various methods to provide psychosocial support to pediatric patients diagnosed with cancer. These methods include screening tools, psychoeducation, playing, animal-assisted therapy, and social activities. Challenges occurred with managing time, resources, and lack of understanding younger patients and their different situations in life.

Each method represents a proactive approach to pediatric cancer care that can improve the patient's quality of life and promote positive nurse-patient relationships. The use of screening tools, psychoeducation, playing, and animal-assisted therapy can have a positive impact on the psychosocial care of pediatric cancer patients and healthcare providers are making concerted efforts to provide these methods of care using a range of resources.

Overall, these findings have important implications for future research and practice in the field of pediatric psychosocial care.

6.2 Ethical Considerations and Reliability

Ethical factors were considered to ensure the validity and reliability of this literature review. The review is written following the guidelines of the National Board of Research (TENK). Additionally, all references are used according to the Metropolia guidelines and all author's works are acknowledged and cited correctly. The data which is presented in the literature review have been selected based on the inclusion and exclusion

criteria, which narrowed down the validity by condensing the used methods of research and population, as well as by using peer reviewed articles.

The literature review is conducted void of any personal bias or conflicts of interest. Author's personal opinions have been fully excluded, and only articles that grant full anonymity towards sample subjects have been selected. Furthermore, all selected articles have been assessed using JBI's Critical Appraisal Tools for qualitative studies (2015) and the Mixed Methods Appraisal Tool (MMAT) for the mixed methods studies (2018). We selected three questions from each appraisal list and applied them to the selected studies (Appendix 2.1).

Along with the limitations (Appendix 2.1) of these studies and their potential impact on the validity of the findings it is important to recognize some additional limitations related to the data used in this review. Firstly, the review's scope is quite narrow since it only includes a small amount of data into the methods and difficulties involved in providing psychosocial care. Secondly, the data primarily comes from developed nations that have well-established pediatric oncology programs. This means that psychosocial services may differ significantly in lower-income countries, where they may be in correlation to the development of better medical care for children with cancer in those regions.

JBI appraisal list

- 1. Is the research ethical according to current criteria or, for recent studies, and is there evidence of ethical approval by an appropriate body?
- 2. Are participants, and their voices, adequately represented?
- 3. Is there congruity between the research methodology and the research question or objectives?

Mixed Methods Appraisal Tool

- 1. Is there an adequate rationale for using a mixed methods design to address the research question?
- 2. Are the different components of the study effectively integrated to answer the research question?
- 3. Are divergences and inconsistencies between quantitative and qualitative results adequately addressed?

The results (Appendix 2.1) were marked as either a pass or fail. To be eligible for a pass, each article had to pass at least two of the designated appraisal questions.

6.3 Recommendations

It is recommended that additional research is done by nurses, healthcare professionals, and others who are interested in providing care for children diagnosed with cancer. This research should cover various age groups of children and those from diverse backgrounds and religions. Furthermore, there is insufficient data on psychosocial methods, including screening tools and patient-centered approaches. The methods mentioned should be studied through qualitative methods such as interviews and focus groups, in addition to quantitative methods such as surveys and randomized control trials. Further research should be carried out globally, beyond the euro-centric care standards, for a more comprehensive and complete understanding of effective psychosocial care methods and the challenges involved in caring for a pediatric patient diagnosed with cancer.

7 Conclusions

The review emphasizes the need for comprehensive psychosocial support for pediatric cancer patients, including screening tools, psychoeducation, animal-assisted therapy, and social activities. Healthcare providers must develop sustainable and effective support programs that meet the unique need of each patient. Future research must address limitations and gaps to ensure patients receive optimal care.

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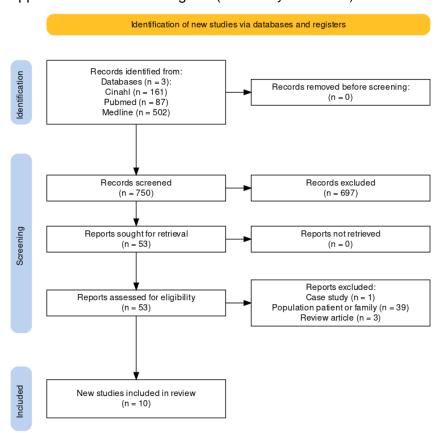
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Appendix 1. Facet analysis

P= Population: Healthcare providers		l= Interest: Psychoso- cial support		Co= Context: Pediatric oncology
Healthcare	AND	Psychosocial	AND	P*diatric
providers		support		oncology
OR		OR		OR
Healthcare		Psychosocial		P*diatric
professionals		care		cancer
OR		OR		OR
Clini-		Emotional		Children
cians/nurses/		support		with can-
doctors				cer

Appendix 1.1 PRISMA diagram (Haddaway et al. 2022)



Appendix 2.1 Description of The Selected Articles

Article	Aim	Sample	Methods/Analysis	Major Findings	Limitations
1	To identify the im-	Four nurses and seven	Qualitative research,	According to the participants, play-	A lack of control
Soares VA et al.	portance of playing for	nursing technicians from	interviews.	ing as a care method helped the	group could limit
2016	pediatric oncology pa-	the nursing team in a	1	children distract themselves from	the interpretation
Brazil	tients in palliative care in	public pediatric hospital	thematic analysis	their hospitalization.	of the findings.
	the perception of the	in Rio de Janeiro.	method.	"Playing is important for children	JBI appraisal:
	nursing team.	This sample was chosen		to have a life more or less normal	pass
		due to the fact that they		to forget for a moment that they	
		are working in close		are living a complicated life, away	
		contact with the hospi-		from their family, friends, their	
		talized children.		toys, and school" (Soares et al.	
				2016: 3).	
				"Playing helps children interact	
				with each other" (Soares et al.	
				2016: 4).	
				The participants highlighted that	
				playing improved psychosocial as-	
				pects like happiness, well-being,	
				and interactions between the child	
				and the nurse.	

2	To report the experi-	107 social workers from	Mixed methods	58 participants said that they used	Self-reported data
Jones et al.	ences of social workers	81 cancer institutions.	study,	some kind of assessment tool to	could be a subject
2018	in delivering psychoso-		online survey	screen for any psychosocial is-	to social desirabil-
USA	cial care to the patients		/	sues in their patients and their	ity or memory re-
	and their families, as		statistical analysis +	families. The Psychosocial As-	call bias.
	well as the adherence to		review of open-	sessment Tool (PAT) was the	MMAT
	The Standards of Psy-		ended questions.	most commonly used. Psychoedu-	appraisal: pass
	chosocial Care for Chil-			cation concerning cancer was pro-	
	dren with Cancer and			vided regularly at 55 institutions.	
	Their Families (2015).			Psychoeducation included supply-	
				ing of resources, such as books,	
				educational support groups,	
				camps and educational events. 29	
				of the institutions reported offering	
				social activities always. For exam-	
				ple, scheduled activities in play-	
				rooms, support groups or yearly	
				hospital socials. They also offered	
				social outlets such as retreats,	
				and activities for adolescents. 44	
				of the institutions offered support	
				with re-entry to school life.	

3	To identify the im-	15 healthcare providers,	Qualitative research,	Screening is an important factor in	Small sample size
Kazak et al.	portance of psychoso-	ranging from physicians,	digitally recorded in-	psychosocial support as it facili-	where only 15
2017	cial risk screening of pa-	nurses, social workers,	terviews	tates clinical care. Screening was	healthcare provid-
USA	tients from a healthcare	psychologists to physi-	1	identified as critical to proactive	ers are inter-
	providers perspective.	cian assistants. Partici-	constant comparative	care. Screening is an effective tool	viewed.
		pants were selected	analysis method.	to match intervention to need.	The sample size
		from nine sites, with 3 of		Screening supported care adher-	can limit the gener-
		them using PAT (psy-		ence and attendance thus improv-	alizability of the re-
		chosocial assessment		ing the child's quality of life. It also	sults.
		tool) for research and		makes communication between	JBI appraisal:
		six of them for clinical		the team smoother as they are	pass
		care.		more aware of the patients and	
		The participants were		family's need. According to the	
		from different clinical		participants, no families should be	
		sites where PAT is		excluded from screening, as it al-	
		used. (no other details		lows underlying issues to be dis-	
		were given on the set-		covered. Screening also promotes	
		ting).		psychosocial outcomes.	
4	To observe the effects	Six healthcare providers	Qualitative study,	The participants recognized signif-	A lack of control
Moreira RL et al.	of animal-assisted ther-	from the nursing staff,	sample observation	icant changes in the mental state	group could limit
2016	apy with dogs on pediat-	including nurses and	and in-depth inter-	of the patients after playing with	the interpretation
Brazil		nurse technicians, as	views.	the dog.	of the findings.
		well as 10 legal guardi-		"They get distracted, they play,	
		ans. The study was set		they have fun The presence of	

	ric patients from the per-	in a hospital located in	theoretical-methodo-	the dog improves interaction and	JBI appraisal:
	spective of the nursing	Brazil that diagnoses	logical method	makes them more relaxed and	pass
	staff and parents.	and treats children and	/	calm" (Moreira et al. 2016: 1125).	
		adolescents with cancer.	Content analysis.	The presence of the dog seemed	
				to also have a positive effect on	
				the relationships between the	
				nurses and patients.	
				"Yes, there was an improvement	
				in communication, mainly with	
				those who are naturally shyer or	
				those who seem scared when	
				they get here" (Moreira et al.	
				2016: 1125).	
				"Usually they don't want to talk,	
				but when the dog comeswe	
				can't help getting excited as well,	
				then were able to speak with them	
				about it. When there's something	
				in common to talk about it is eas-	
				ier to medicate them" (Moreira et	
				al. 2016: 1125).	
5	To investigate the inter-	Phase one: 14	Sequential explana-	Participants expressed that alt-	Limited sample
Williamson &	ventions and perspec-	healthcare providers	tory mixed methods	hough it is surprising that patients	size in phase or
Rumsey			study.	with terminal illnesses could be	although phase

2017	tives of healthcare are	/five purees two pay	Dhoop once intor	concerned about physical appara	two incorporates a
	tives of healthcare pro-	(five nurses, two psy-	Phase one: inter-	concerned about physical appear-	two incorporates a
UK	viders regarding the	chologists, five doctors,	views	ance, it is very common. The root	larger sample size,
	psychosocial impact of	two social workers) from	Phase two: online	of the insecurities lies in the	they are only a
	appearance change in	a regional pediatric hos-	survey	change in treatment that they re-	representation of
	adolescents (12-18	pital.	/	ceive from their peers, feeling like	the healthcare pro-
	years) during cancer	Phase two: 48	Phase one: thematic	they don't fit the beauty standards	viders in the UK.
	treatments.	healthcare providers	analysis	of society, and the fear of being	Potential for bias
		working within UK multi-	Phase two: qualita-	judged or bullied because of their	due to self-re-
		disciplinary oncology	tive data → deduc-	physical appearance. The inter-	ported data.
		teams (MDT's) (43,8%	tive content analysis,	ventions mainly focused on pre-	MMAT
		social workers, 27%	quantitative data →	vention, so explaining the physical	appraisal: pass
		nurses, 14,6% doctors,	statistical analysis	effects of cancer to the patients.	
		10,42% psychologists,	(SPSS).	Group activities related to beauty	
		and 10,4% youth work-		(wig installments, make-up,	
		ers).		clothes etc.) were provided for	
				girls. A few participants also used	
				patient-specific support methods,	
				such as, building a trust relation-	
				ship, using a person-centered ap-	
				proach to encourage conversa-	
				tions about specific concerns. Pa-	
				tients who struggled with self-ex-	
				pression (mostly boys) were en-	
				couraged to use written or video	

diaries. Simple interventions in-
cluded validating feelings, intro-
ducing positive role-models, and
giving reassurance to the patient.
In difficult situations, social skills
and cognitive behavioral tech-
niques were taught to help man-
age social situations and identify
and challenge negative appear-
ance cognitions.
"We work together, they know
what will work, we just gently sug-
gest, and facilitate what they
need" (social worker) (Williamson
& Rumsey 2017: 53).
"Bring it up early on, we need to
invest in that discussion to put
support networks there, or at least
discuss feelings, before changes
happen, otherwise problems arise
like reluctance for treatment and
not taking medicines" (nurse) (Wil-
liamson & Rumsey 2017:53).
liallisuli & Rullisey 2017.33).

6	To help healthcare pro-	17 pediatric oncology	Qualitative study/	The study found critical aspects in	Small sample siz
Cho et al.	viders grant age-appro-	healthcare providers.	Demographic data →	care which are necessary to pro-	and some
2021	priate support for can-		descriptive statistical	vide proper support for an adoles-	healthcare pro-
USA	cer-suffering adoles-		analysis	cent child in different stages of	vider roles such
	cents through emotional,		Transcripts → quali-	their cancer journey. These attrib-	a social worker
	individual and social ap-		tative content analy-	utes include: "(1) initiative and en-	missing.
	proaches.		sis.	terprise, (2) positivity and evoca-	JBI appraisal
				tiveness, (3) tranquility and ma-	tool: pass
				turity, (4) perseverance and tenac-	Joon pass
				ity, (5) compassion and empathy,	
				(6) social engagement and con-	
				nection, (7) wisdom and transla-	
				tion into life, (8) supportive back-	
				ground, (9) self-awareness and	
				selfagency, (10) transcendence	
				and full potential, and (11) mean-	
				ing-making" (Cho et al. 2021: 10).	
				"[Despite] everything that they	
				went through, they were still able	
				to carry forward. Another nurse	
				also mentioned, they just had end	

				1	
				goals [even in palliative treat-	
				ment]. They wanted to go to col-	
				lege still. They were still in school;	
				they didn't take any time off. When	
				they were here for their treatment,	
				they had classes online. They	
				were still being very active. This	
				person was amazing and very	
				driven; they just kept going" (Cho	
				et al. 2021: 13).	
				When providing care for pediatric	
				cancer patients, healthcare provid-	
				ers should emphasize a child's in-	
				dividuality, emotional support and	
				social interactions, instead of	
				solely focusing on symptom allevi-	
				ation.	
7	To aid healthcare pro-	11 healthcare providers,	Qualitative study	The study describes how the 5 A's	The small sample
Fernandes et al.	viders to identify the	including three Commu-	conducted through	method can be used to help	size of only 11
	_			·	
2019	need for different psy-	nity Health agents, two	semi-structured	healthcare workers in providing	healthcare profes-
Brazil	chosocial methods	dentists, three nurses	interviews	adequate psychosocial support for	sionals can limit
	based on a child's age.	and three doctors. From	/	children who are suffering from	findings.
		these, there were two	Thematic analysis.	cancer. The 5 A's method includes	
		males and nine females			

with an average age of	the following: "Assessment - un-	JBI appraisal
48.	derstanding the subjects' beliefs,	tool: pass
	knowledge and behaviours; Guid-	
	ance - exchange information on	
	disease management and coping	
	strategies and skills training;	
	Agreement - elaboration of the	
	joint self-care plan, considering	
	the specificities of the individual;	
	Assistance - actions by profes-	
	sionals that improve people's mo-	
	tivation and improve their self-help	
	skills; Follow-up - joint develop-	
	ment and implementation of a	
	monitoring system" (Fernandes et	
	al. 2019: 4). The study reflects	
	upon the need for the healthcare	
	providers personal extrinsic and	
	intrinsic motivation to assure full	
	understanding of the necessary	
	psychosocial support methods.	
	po, succession capper modification	

8	To inspect the way	14 nurses, 8 social	Repeated measures	Healthcare providers use a PCCL	Lack of familiarity
Di Battista et al.	healthcare providers re-	workers and 15 oncolo-	comparative study/	screening tool to assess the nec-	with PCCL/PAT
2015	gard psychosocial	gists are included in the	Mann-Whitney U test	essary psychosocial support.	can grant inflated
USA	screening tools such as	population.	analysis.	"Examples of items include "child	and amicable re-
	PAT and PCCL in refer-			withdrawn," "moody," "child acting	sults.
	ence to young children			out," and "child social problems."	JBI appraisal
	suffering with cancer.			The PCCL also documents any	tool: pass
				actions taken to address observed	ioon paoo
				concerns" (Di Battista et al. 2015:	
				392). "The use of psychosocial	
				screening tools may improve com-	
				munication among HCPs treating	
				children with cancer, which, in	
				turn, may improve healthcare ser-	
				vices" (Di Battista et al. 2015:	
				395). The study found that nurses	
				were more inclined to use the psy-	
				chosocial screening tools,	
				whereas other healthcare provid-	
				ers such as social workers had	
				much lower utility ratings. The	
				study emphasizes the necessity of	
				screening tools to bring healthy	
				communication between the child	

				and the healthcare provider, in ad-	
				dition to communication between	
				healthcare peers.	
9	The study identifies bar-	46 healthcare providers,	Qualitative study/	"The important role of the primary	Study conducted in
Laronne et al.	riers which healthcare	including nurses, oncol-	NVivo software anal-	healthcare provider has also been	in a country differ-
2021	providers face in regard	ogists, psychosocial	ysis.	identified in studies on barriers to	ent from Eurocen-
Israel	to palliative pediatric on-	team members and	,	pediatric palliative care implemen-	tric healthcare sys-
	cology care.	other healthcare staff.		tation including the provider role,	tems.
				conflicting philosophies about pal-	JBI appraisal
				liative care, and emotional rela-	tool: pass
				tionships with patient/families"	
				(Laronne 2021: 1613).	
				"Additional barriers included pro-	
				vider beliefs that palliative care	
				cannot be delivered concurrently	
				with curative cancer treatments,	
				discomfort talking about death,	
				and perception that there is little or	
				no benefit in incorporating pallia-	
				tive care at end of life" (Laronne	
				2021: 1613).	
				"Healthcare providers acknowl-	
				edged their discomfort with provid-	
				ing palliative care as a barrier,	

				mentioning both difficulty with end-	
				of-life care and conflicting goals of	
				care" (Laronne 2021:1613).	
				,	
				The study identifies factors which	
				result in barriers of care for	
				healthcare providers. Barriers in-	
				clude issues such as a lack of re-	
				sources and individual barriers in-	
				cluding personal motivation and	
				emotional capability. Lack of job	
				commitment and dedication result	
				in lessened support for pediatric	
				oncology patients.	
10	To highlight the neces-	54 healthcare providers,	Randomized con-	PAT follows the classification sys-	Healthcare provid-
Desjardins et al.	sity of psychosocial	including nurses, oncol-	trolled trial/ VAS rat-	tem 'Pediatric Psychosocial Pre-	ers focused on re-
2019	screening tools such as	ogists and social work-	ing scale analysis.	ventative Health Model.' The diag-	porting on more
	PAT, which have not	ers.		nosed child is assessed through	than one patient,
Germany	been an integral part of			levels 1-3. A higher level means	potentially lowering
	psychosocial support so			that more psychosocial resources	utility perception.
	far.			need to be used when supporting	JBI appraisal
				the patient. The study indicates	tool: pass
				the necessity of screening tools as	
				an important aspect of psychoso-	
				cial care. The study found that	
				•	

	nurses and oncologists found the
	screening tools useful, whereas
	other healthcare providers had low
	utility ratings.
	Differences in perceptions be-
	tween healthcare providers cre-
	ates a barrier of communication.
	Proper implementation of psycho-
	social support can therefore be
	hindered.