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Abstract

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BACKGROUND: As many as, 45% of orphaned children and adolescents living in orphanages experience behavioral and emotional problems. Several literature reviews on the intervention of emotional and behavioral problems in orphan children and adolescents have been widely conducted. However, there is paucity in the reviews of emotional and behavioral problem interventions in the orphan group based on the type of group approach used in published

AIM: This study aimed to synthesize the results on the interventions of emotional and behavioral problems in orphan children and adolescents aged 7-20 years who live in institutions or orphanages.

METHODS: This research was a scoping review. This review used three databases comprising PubMed, Science Direct, and Wiley Library Online. The inclusion criteria were experimental research designs and cohort studies, published in the 2009-2019, discussed emotional and behavioral problem's intervention in orphan, and written in English. The exclusion criteria were that the research subjects had severe mental and psychosocial disorders such as autism, mental retardation, and mental disorders. The authors used three categories of keywords; the first keyword and its synonym were "intervention, treatment." The second keyword focused on behavioral problems, which was "behavioral difficulties," and the third keyword focuses on population and place, "orphan, institutions orphans, orphanages." The article selection stage is described in detail in the flow diagram of Preferred Reporting Items for Systematic Reviews and Meta-Analysis. The critical appraisal stage used the checklist from Joanna Briggs

RESULTS: Ten articles were found and selected for review. The main emotional and behavioral problems experienced by orphan children and adolescents include depression, anxiety, and low self-esteem, feelings of anger, and trauma. Other problems related, functional disorders, life satisfaction, the probability of suicide, and early (prodromal) symptoms of psychosis, also arise. There were six types of interventions given to overcome emotional and behavioral problems in orphan children and adolescents, but the interventions that are most often given are cognitive therapy, educational support, complementary, and alternative medicine. The approaches in groups that are often used in this review are the support group and the teaching-learning group. The combination of two or more approaches in one intervention can increase the success or effectiveness in overcoming emotional and behavioral problems.

CONCLUSIONS: Depression, anxiety, low self-esteem, feeling anger, and trauma are main problems for orphans. To address these emotional and behavior problems, it is necessary to combine several interventions and a combination of group-based approaches.

Introduction

Research [1] found as many as 40.35% of orphans and orphaned adolescents living in institutions experience behavioral problems and problems. These complex problems with orphans living in orphanages have attracted the attention of social researchers and child welfare experts in the past new decades [2]. Social research in Cairo found that 64.35% of children and adolescents had behavioral disorders [3].

Placing orphans in orphanages provide a solution, but at the same time, it can cause new problems for children [4], [5]. The emergence of emotional and behavioral problems cannot be separated from the orphanage's role because this institution often implements "structural neglect" which is thought to be the caused by limited physical resources, unfavorable parenting, and instability as well as inadequate social and emotional interactions between caregivers and children [6], [7]. While many serious cases occur, the care and support provided by the orphanage are limited to biological needs such as nutrition, basic health, and education [8].

Some of the emotional and behavioral problems that often arise are aggressive behavior, and many orphans in institutions have higher levels of depression and anxiety than orphans who are raised in a family F - Review Articles Narrative Review Article

environment [9], [10]. These behavioral and emotional problems have an impact on the development of the child as a whole, particularly on academic results and social constraints in adulthood [11]. Another study found that care in these social institutions has a negative impact on emotional development and regulation in younger children (pre-school) and the length of stay at the institution determines the severity of cognitive development, especially in children placed in nursing homes since birth [12].

Several research results recommend prevention and management of behavioral problems and emotional problems of children in an orphanage, including early detection of children's behavioral and emotional problems, ongoing treatment from the start of entering the institution, increasing warmth in care [13], and providing material and psychosocial support [6], [14]. The choice of group approach in intervention is very important to consider based on the characteristics of the orphan group. Support groups focus on increasing adaptation after experiencing a crisis of losing one or both parents, such as self-help groups that provide emotional support among group members. Teachinglearning is conducted to disseminate information, techniques or skills, with socialization-centered approaches to improve adaptation abilities and social skills as well as task or planning oriented groups which are groups formed to complete certain tasks or responsibilities [15].

There have been many reviews of various models of behavior problem interventions in orphans living in orphanages, but the existing reviews have not specifically addressed the types of interventions based on group approaches and the types of behavior problems experienced by orphans. In particular, this review aimed to find out:

- 1. The behavioral and emotional problems often experienced by orphan adolescents
- 2. The types of interventions given to orphan adolescents who experienced emotional and behavioral problems
- 3. The type of group approach used in the intervention given to orphan adolescents groups who experience behavioral and emotional problems.

Methods

The intervention model for orphan's emotional and behavioral problem was review applied the Arksey and O'Malley's framework including (1) identifying research questions, (2) identifying relevant studies, (3) study selection, (4) charting the data, and (5) collating, summarizing, and reporting results (Levac, Colquhoun and O'Brien, 2010).

Search strategy

The authors determined research questions based on research objectives with the help of the patient problem or population intervention comparison outcomes (PICO) framework. The PICO framework is generally used in evidence-based clinical practice and is considered a strategy that assists in the preparation of research questions [16]. The PICO framework consists of four concepts, which are Patient, Problem or Population (patient or population problems), Intervention, Comparison (comparisons if any), and Outcomes (results or effects of intervention). The PICO framework is presented in Table 1.

Table 1: PICO framework

Patient problem or population	Intervention	Comparison	Outcomes
Children and adolescent	Therapy	*No treatment	Behavior problem or
orphaned with emotional and	Intervention		externalizing problem
behavioral problem	Model		Emotional problem or
	Support		internalizing problem

Search for articles was conducted on journals published between 2009 and 2019, through three databases: (1) Medline (via PubMed), (2) ScienceDirect, and (3) Wiley Online Library. The author used three categories of keywords; the first keyword and its synonym were "intervention, treatment." The second keyword focused on behavioral problems, which was "behavioral difficulties, and the third keyword focuses on population and place, "orphan, institutions orphans, orphanages." These keywords were connected by logical connectors OR and AND. We used Boolean OR for per-keyword synonym alternatives and use Boolean AND to link the primary keywords. Journals that are presented in free full text and only in English were included in this review. The authors used the Zotero software to collect articles and select relevant articles according to research questions and research objectives. The authors used Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines [17] to describe the search and selection of articles. The PRISMA flow diagram is presented in Figure 1.

Inclusion criteria

The inclusion criteria in this study were as follows: (1) Articles published in the 2009–2019 period; (2) articles that discuss behavioral problems and emotional problems intervention in Orphan, (3) original research or research paper or research article; (4) articles are presented in English; and (5) articles with experimental research designs and cohort studies.

Exclusion criteria

Articles were excluded if it is found that the research subjects had severe mental and psychosocial disorders such as autism, mental retardation, and mental disorders.

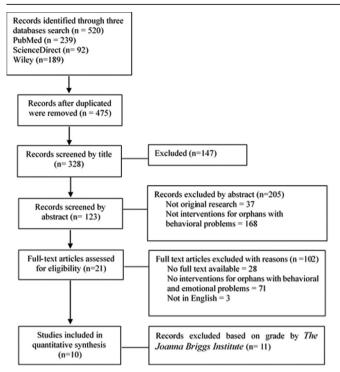


Figure 1: Flow diagram of screening, selection process, and inclusion of studies based on the preferred items for systematic reviews and meta-analyses guidelines [17]

Search outcomes

The PRISMA results show that there were 520 articles obtained from three databases. The selection of articles was performed based on predetermined inclusion and exclusion criteria. This study obtained 21 relevant articles and from these results a critical appraisal was conducted using the Joanna Briggs Institute (JBI) handbook [18].

The selection phase of research journals is presented in the PRISMA diagram which is shown in Figure 1.

Quality appraisal

Three reviewers read 21 articles while conducting a critical appraisal using the JBI checklist for randomized control trials, quasi-experimental studies, and cohort studies. The consideration used to determine the quality article of cohort studies that fit into the synthesis were as follows: Sample recruitment, exposures measures, confounding factors, outcomes measures, follow-up time, and statistical analysis. The considerations used to determine the quality of articles of quasi-experimental studies that fit into the synthesis phase were as follows: Clear of cause and effect, participants included the presence of the control group, the presence of multiple measurements of the outcome (both pre and post), the follow-up, reliability of outcome measures, and statistical analysis. Meanwhile, the consideration used to determine the quality article of random controlled trials (RCT) were as follows: Accuracy of randomization, the confidentiality of the treatment group, baseline similarity of treatment group, the presence of blind treatment, the presence of follow-up, accuracy of outcomes measured, and statistical analysis. The results of the critical appraisal obtained 10 articles to be continued in the extraction and analysis stages.

Data extraction and analysis

Data extraction was conducted on 10 articles that were found in the previous stage. The grouping of information from each article was broken down into several sections, referring to Peters *et al.* [19] (Peters *et al.*, 2015), which are as follows: (1) Author, (2) year of publication, (3) source country of origin, (4) Purpose, (5) study population and sample size, (6) research methodology, (7) type of intervention, (8) duration of intervention, (9) means of measurement of results, and (10) findings relevant to the research question. This extraction data are shown in Tables 2-4.

Table 2: Characteristics of the studies

Author(s)	Year of publication	Country	Continent
Zhao et al.	2010	China	Asia
Ojiambo and Bratton	2014	Uganda	Africa
Cluver et al.	2015	Haiti	America
Rouholamini et al.	2016	Persia	Asia
Kane <i>et al</i> .	2016	Zambia	Africa
Tejvani <i>et al</i> .	2017	India	Asia
Green et al.	2018	Kenya	Africa
Ozturk and Ekinci	2018	Turkey	Asia
Rahayu <i>et al</i> .	2018	Indonesia	Asia
Mohammadzadeh et al.	2019	Malaysia	Asia

Descriptive analysis method used to extract research results from 10 articles regarding the interventions on orphans with emotional and behavioral problems. The results of this analysis were then presented in tabular form (Levac, Colquhoun and O'Brien, 2010). The main author compiled and designed this review, then all the authors collected data and conducted data analysis and interpreted the data and discussed until the final review report was compiled of the 10 articles.

Results

Descriptive characteristic of the studies

A primary search of the databases resulted 520 articles and after duplicated was removed became 475. One hundred and forty-seven articles were excluded because by title, abstract, and with reason (not full text, not emotional and behavior intervention, and not in English), remaining 10 articles after being assessed JBI appraisal.

The author has found 10 selected articles, published between 2009 and 2019. There are six studies conducted in Asia, three studies in Africa, and

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Table 3: Summary of behavioral intervention problems

Author(s), year of publication	Purpose		ple		Measurement result
	•	n	Location	Sex/age	_
Zhao <i>et al.</i> , 2010	To compare psychological symptoms among orphans with multiple AIDS	176	4 selected orphanages	Female Male Children	Depression, loneliness, anxiety, anger (child psychological problems
Ojiambo and Bratton, 2014	To identify the effect of group activity play therapy (GAPT) intervention on behavior problems in pre-adolescent orphans	42	Selected elementary school	Female Male Children	Anxiety, depression, stress symptoms, and emotional problems (internalizing problems) and aggression and conduct problems(externalizing problems)
Cluver <i>et al</i> , 2015	To identify whether yoga exercise can reduce trauma-related disorders and emotional and behavioral problems	76	2 selected orphanages	7–17 years old (adolescents)	Trauma and behavioral problems
Rouholamini et al., 2016	To determine the effectiveness of spiritual components training on the life satisfaction of orphan adolescents	20	selected orphanages	Female 12–15 years old	Life satisfaction
Kane <i>et al.</i> , 2016	To explores moderate factors in response to TF-CBT treatment among a sample of orphans and vulnerable children (OVC)	257	orphanages	Children	Trauma and functional disorder
Tejvani <i>et al</i> , 2017	To identify the effect of yoga interventions on psychological problems	34	Selected orphanages	Male: 27 Female: 7 12–20 years old	Depression, anxiety, and self-esteem
Green et al., 2019	To examine the effect of school support interventions on mental health in orphan adolescent	835	26 selected elementary schools	Male Female Children and adolescents	Depression
Ozturk and Ekinci, 2018	To determine the effect of structured education on self-esteem and the probability of suicide	30	Selected orphanage	Male Adolescents	Self-esteem, probability of suicide
Rahayu <i>et al.</i> , 2018	To determine the effect of cognitive therapy and psychoeducation on prodromal psychosis and self-esteem of adolescents	77	Orphanage	Male Female Adolescents	Early symptoms of psychosis and self-esteem
Mohammadzadeh <i>et al.</i> , 2019	To determine whether life skills based interventions can improve emotional health and self-esteem in adolescents	271	8 selected orphanage	Male Female 13–18 years old	Depression, anxiety, and stress (emotional problems) and self-esteem

Table 4: Summary of behavioral intervention models based on the group approach

Group approach	Reference	Type of intervention	Name of intervention
Support group	Ozturk and Ekinci, 2018	Cognitive behavior therapy (CBT)	The structure education
	Green et al., 2019	Educational support	School support intervention
	Rouholamini et al., 2016	Spiritual training	Spiritual component training
	Zhao <i>et al.</i> , 2010	Psychological support	Family-based care
	Kane et al., 2016	CBT	Trauma focus – CBT
	Ojiambo and Bratton, 2014	Mental health intervention	Group activity play therapy (GAPT)
Self-help group	Mohammadzadeh et al., 2019	Life skill-based intervention	Life skill education program
	Ojiambo and Bratton, 2014	Mental health intervention	GAPT
Teaching-learning group	Ojiambo and Bratton, 2014	Mental health intervention	GAPT
	Rouholamini et al., 2016	Spiritual training	Spiritual component training
	Mohammadzadeh et al., 2019	Life skill-based intervention	Life skill education program
	Culver et al., 2015	Complementary and alternative medicine (CAM)	Yoga intervention
	Tejvani <i>et al</i> ., 2017	CAM	Yoga-based intervention
Socialization-centered group	Ozturk and Ekinci, 2018	CBT	The structure education
Task/directed oriented group	Ojiambo and Bratton, 2014	Mental health intervention	GAPT
	Ozturk and Ekinci, 2018	CBT	The structure education

one study in America, which are shown in Table 1. This review study was conducted on findings in selected orphanages and selected primary schools, and several studies that divided respondents according to gender. In general, the research under review aimed to determine the effect of intervention on orphan emotional and behavior such as depression, trauma, feelings of loneliness, life satisfaction, anxiety, self-esteem, suicidal thoughts, mental health, prodromal psychological signs, and stress. From several studies, there are additional findings and respondents who were involved in the intervention, including teachers, parents, and orphanages, as listed in Table 2.

Emotional behavioral problems (EBP)

Of the 10 selected articles, one article describes EBP in the externalizing problem and internalizing problem categories, three studies mention that EBP uses the categories of psychological problems (depression, loneliness, anxiety, and anger), behavioral

problems, and emotional problems (depression, anxiety, and stress), while six other articles mention separately for each component that makes up EBP, which are depression, anxiety, and self-esteem. In addition to the main outcomes, problems related to EBP were also found, including functional disorders, life satisfaction, the probability of suicide, and early symptoms (prodromal) of psychotic mental disorders. The highest EBPs experienced by orphan adolescents are depression, anxiety, and low self-esteem, followed by feelings of anger, depression, and trauma, Table 3.

Types of group-based EBP intervention

Of the 10 selected articles, there are six types of interventions or models of care to overcome EBP as follows:

- 1. Educational support [8], [24]
- 2. Spiritual support [21]
- 3. Play therapy [14]
- 4. Complementary and alternative medicine [20], [23]

- 5. Family support [2]
- 6. Cognitive therapy [22], [25], [26].

From these selected articles, the most frequently used therapy is cognitive therapy, followed by educational support and complementary and alternative medicine, while the ones that are rarely used are family support, spiritual support, and play therapy.

The types of group approach used in the EBP intervention

Of the 10 articles selected, they were classified into the types of group approaches used in interventions to overcome EBP challenges consisting of:

- 1. Support group [2], [14], [21], [22], [24], [25]
- 2. Self-help group [8], [14]
- 3. Teaching-learning group [4], [8], [14], [21], [23], [26]
- 4. Socialization-centered group [25]
- 5. Task-/planning-oriented group [14], [25].

From these selected articles, the approaches in groups that are often used in this review are support groups and teaching-learning groups, followed by self-help groups, task-/planning-oriented groups, and those that are rarely used in socialization centered groups. This approach is used in a combination of 2–4 approaches at once in behavioral interventions. Group activity play therapy (GAPT) uses four group approaches at the same time in implementing its intervention, namely, support groups, self-help groups, teaching-learning groups, and task-/planning-oriented groups.

Discussion

The first finding obtained from this review is that the EBP or emotional and behavioral problems most often experienced by orphans are depression, anxiety, and low self-esteem. This problem is in line with research in Africa, which showed that orphan adolescents have a higher incidence of grieving problems, post-traumatic stress, depression, suicidal thoughts, anxiety, behavior problems, and negative outlook, than non-orphan adolescents [28], [29], [30], [31]. More specifically, this study is also in line with Erango and Ayka [32] which stated that 59% of children experience self-esteem problems followed by emotional problems including anxiety as much as 14.73% [7] and at least 12.7% experience depression [7].

The psychosocial development stage of adolescents aged 12–17 years is in the period of identity versus identity confusion [33] or is a critical period that must be surpassed in a person's development. If they do not get the attention of the parents, because of the religious or social condition experienced by the children, there will be more severe emotional and behavioral

problems compared to adolescents who still have both supportive parents. The problems experienced are in the form of unstable emotions, tendency to have many social problems, lack self-confidence, and are anxious and restless because of experiencing inner contradictions [34]. For this condition for adolescents, it takes close friends or peers (peer groups) to get security support, guidance, and outpouring because they have the same characteristics and can be relied on to understand what is going on. Therefore, group forums are more appropriate as an approach in overcoming emotional and behavioral problems in adolescents.

Orphan interventions with EBP can be given individually or in groups. Giving group-based or peer group interventions are more effective than individual approaches, because group members have the opportunity to share about the problems and challenges that they are facing. The main goal about learning in this group of orphan adolescents is they learn from each other how to deal with the grief of the death of one or both of their parents and learn socialization skills that will help them later in life [35]. Game therapy, which is conducted in groups for adolescents, shows significant results in increasing low self-esteem, with games can help in creating communication, cooperation, and being able to withstand stress [36].

In general, the most frequently intervention for EBP is cognitive behavior therapy (CBT). This intervention has strong evidence based on various age ranges and types of clinical disorders or types of problems experienced, including behavioral and emotional problems [37], [38]. Modification or development of CBT, which is trauma focus-CBT (TF-CBT), showed positive results in reducing symptoms of post-traumatic stress disorder in orphans after 6 months of the departure or death of their parents [39]. The main keys to this intervention are in psychoeducation, coping skills, identification of feelings, gradual exposure, cognitive processes related to beliefs, and involvement of caregivers. Implementation of TF-CBT can be performed in schools, clients' homes, and in individual and group therapy settings.

Efforts to overcome EBP often have to integrate two or more types of interventions that are used together, which aim to be more on target and more effective [37] because EBP itself is a collection of several emotional and behavioral problems. In addition to cognitive therapy, the use of spiritual building, support group therapy, application of discipline. extracurricular play activities, and parental assistance in the family are conducted as an effort to overcome the problem of poor behavior in orphaned children and adolescents of single parents in school settings. The role of religion or spirituality in the welfare of orphans is rarely found as in this study, but available empirical evidence has suggested that religion and spirituality have an important role in controlling emotions and providing positive encouragement to further improve

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personal qualities [40]. Play therapy is one of the most important methods used to train children's social skills. It can also build connectivity and help solve behavioral problems for orphans in orphanages [41]. One of the characteristics of orphans is feeling insecure about their abilities, which is the main cause of most withdrawals from the surrounding environment. Hence, play therapy can build social interactions and friendships between members in the groups [42].

Yoga is a traditional technique that promotes personal health and well-being. Yoga has scientifically positive effects on emotional and cognitive functions, besides having a direct impact on motor or physical in children and adults. The Purohit research conducted by RCT showed that 3 months of time were found to be beneficial for orphaned adolescents in improving their executive function [43], [44]. Family-based care is often applied in society in various forms, for instance, care by one parent who is still alive, care with a continuing family contact and support from counselors in orphanages [45]. The care given by the assistants at this orphanage needs to be strengthened in the quality of the assistance provided, to replace the role of the biological family so that psychological problems that arise in the orphanage can be properly prevented.

Community health nurses work primarily in family and community settings, with the consequence that this practice takes place in group settings and performs different roles according to the type of group in progress. The nurse does not only play a role in the group but is also a member of the group. The role of the nurse is involved in various types of groups that focus on the here and now, do not focus on the past, apply recent learning in the group, adapt to new habits. increase or maintain levels of functioning, do not focus on developmental repetition, and are not a reconstruction of the group's personality [15]. Counselors believe that dynamic group and group processes help orphan adolescent express feelings and thoughts, can also help explore self-doubt and realization processes during group intervention sessions [45]. The use of group forums can further increase the effectiveness of the expected results. These types of groups can be combined with one another, and the role of peers in group activities is important for orphans to support their growth and development [46].

The results of this review indicate that one group-based intervention used more than 2 approaches in the group, for instance, in one intervention, the researcher used the support group approach, the self-help group, and the teaching-learning group. The interventions used in orphan groups and vulnerable children in Africa combine several interventions, which are mentorship, peer group support, educational interventions, social interventions, family support, and social interventions [35]. A comprehensive approach, by combining various approaches, both material and psychosocial supports such as interventions

provided by Iritani et al. [47], shows significant results in increasing retention, school attendance, improving health, and improving children's well-being.

The strengths of this study have suggested that the combination of various group-based interventions provides more effective results, while the limitations of this study are the limited articles obtained that discuss emotional and behavioral problem interventions in orphans and the use of the term orphan is still unfamiliar in certain countries. Future review, it is necessary to review various studies and use appropriate synonyms for orphans.

Conclusions

This review revealed the emotional and behavioral problems experienced by orphan adolescents include depression, anxiety, and low self-esteem, followed by feeling of anger, depression, and trauma. Cognitive therapy, complementary and alternative medicine, and educational support are interventions that are mostly given to groups of orphaned adolescents with group-based emotional and behavioral problems. Teaching with learning group approaches is the most often used in the intervention of emotional and behavioral problems in orphan youth groups.

This review was limited to 10 research articles published in 2009-2019, with a sample of children and adolescents aged 7–20 years. To identify the magnitude of emotional and behavioral problems in orphans, in the literature search process, it is necessary to add specific types of instruments that are often used to measure emotional and behavioral problems. To assess the appropriateness of the type of intervention based on child development, the next review needs to limit the age of the respondents to school age (6-12 years) and adolescence (over 12-20 years).

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