



Conference Paper

Play Therapy to Reduce Anxiety in Children During Hospitalization: A Literature Review

Permata Salsabila, Ika Rizki Anggraini*, Aini Alifatin, Nurul Aini

Nursing Science Study Program, Muhammadiyah Malang University

ORCID

Ika Rizki Anggraini: https://orcid.org/0000-0003-1032-2567

Abstract.

Hospitalization is a form of individual stressor for children, forcing them to adapt to the hospital environment. Adjusting to a new foreign environment such as a hospital can cause anxiety in children. One of the actions taken to overcome hospitalization anxiety is play therapy. The purpose of this study was to identify the types of play therapy used to reduce anxiety levels in children during hospitalization. This was a literature review and a total of 15 articles were found by searching through the Google Scholar, PubMed, and ProQuest databases. Skill play and dramatic role play, which are based on content, were the play therapies that were most widely used, found in 12 of 15 articles. Play therapies based on social characteristics included solitary play and associative play, which were found in 9 of 15 articles.

Anggraini; email: ikarizki@umm.ac.id

Corresponding Author: Ika Rizki

Published 15 September 2022

Publishing services provided by Knowledge E

© Permata Salsabila et al. This article is distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use and redistribution provided that the original author and source are credited.

Selection and Peer-review under the responsibility of the ICMEDH Conference Committee. Keywords: play therapy, anxiety, children, hospitalization

1. Introduction

According to the 2009 Nationwide Inpatient Sample, the incidence of children undergoing hospitalization in the world from the total number of patients treated in hospitals, there are 6.4 million children in America under the age of 17 years or about 17%[1]. It is estimated that 35 per 1000 children in Indonesia are hospitalized [2]. Based on data from Riskesdas 2013, the average number of children undergoing hospitalization throughout Indonesia is 2.8% of the total number of 82,666 children.

Hospitalization is a child's condition that requires treatment in a hospital (inpatient) due to certain circumstances. The child will undergo treatment or therapy from hospitalization until the child is healthy and returns home [3]. Children's reactions to hospitalization anxiety vary according to the child's developmental level. The reaction of toddler age children shows temper tantrum behavior, refuses to eat, has difficulty sleeping, toileting and returns to the developmental phase of younger children. The reaction shown by the child when experiencing hospitalization anxiety can result in obstacles

○ OPEN ACCESS



in the implementation of the treatment that will be given so that it hampers the healing process and causes the treatment to take a long time, even complications can occur during treatment. Several studies related to anxiety in children during hospitalization already exist, but are not specific to the toodler age category. So that the researchers conducted "Identification of Types of Play Therapy to Reduce Anxiety Levels in Children During Hospitalization" based on a literature study which is expected to be used as information in carrying out treatment interventions for children undergoing hospitalization and can be used for the benefit of the health world.

2. Method

The design of this research is a literature study. The sample selection consists of anxiety children in hospitalization. The researchers collected by identifying, find keyword in database, screening, selecting eligible articles, and determining the articles based on the inclusion criteria. The applied databases were Google scholar, PubMed and ProQuest. The research question in this review section, "play therapy OR therapeutic play AND anxiety AND children AND hospitalization". The process of literature search and selection are depicted in (Figure 1). The searches were on three databases by keyword from 2015-2019. Several research stages were done so the literature study results credibility is legit and credible. The applied stages were

3. Results

The obtained articles were from three databased. The searches were done based on the inclusion criteria. The applied keywords were *play therapy and anxiety and hospitalization*. Sample in this study is toddler. Based on 15 journals reviewed, the types of play therapy that can reduce anxiety levels in children during hospitalization are based on content, namely skill play and dramatic role play. While the type of play therapy is based on social characteristics, namely solitary play and associative play.

4. Discussion

Types of play therapy based on the content, there are skill play and dramatic play role and the most is skill play, there are 2 articles using puzzle games in 5 articles, coloring 4 articles, drawing 3 articles, folding 2 articles of origami paper, forming clay 1 article, caring for dolls using a medical kit play 1 article and coloring body part 1 article. Skill

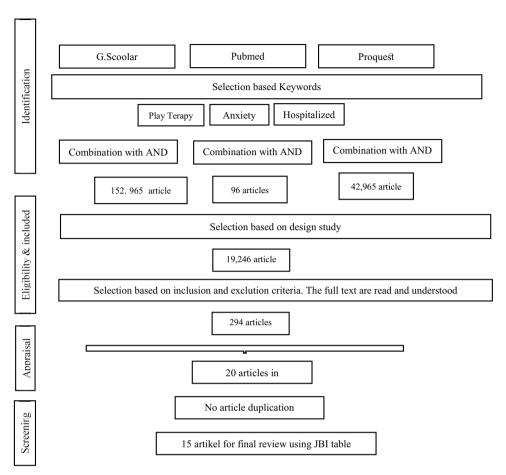


Figure 1: The applied stages were the literature study results.

play is a game that can provide skills to children, especially in gross and fine motoric [18].

This type of skill play therapy can be done by playing coloring pictures. This is evidenced by 4 articles. Actions taken by coloring picture books of animals, numbers, fruit, cartoons, cars and others using colored pencils or crayons. Coloring is an activity of putting colors or dyes such as colored pencils and crayons on an image Playing coloring in the research of Emi et al (2010) can improve fine motor skills in children [19]

There were 2 articles that used dramatic role play in reducing anxiety levels in children during hospitalization using storybooks and hand puppets. Play storytelling or tell stories using storybooks and dolls of the deer and crocodile as their roles. Role play therapy is a game where players play the role of imaginary characters and collaborate to weave a story together [20].

Based on social characteristics, the most common type of play therapy is solitary play, which is found in 9 articles out of 15 articles. This type of play therapy From the results of the analysis, this type of solitary play therapy can use games such as forming clay, folding origami paper, drawing and coloring at will, putting together puzzles and

TABLE 1: the Data Analysis.

TABLE I. the Data Analysis.							
No.	Title, Author, Pub- lication Year	Study Design	Sample	Intervention	Outcome		
1.	Influence of Therapeutic Play on the anxiety of hospitalized school-age children: Clinical trial. [4]	Randomized clinical trial.	28 children aged 6-11 years	group performs	The results showed no significant difference to anxiety levels in the intervention group of 73.9 and the control group of 69.4 with a <i>p-value</i> of =0.59.		
2.	The effectiveness of playing Clay and Origami therapy to reduce anxiety pediatric patients hospitalized. [5]	experimentwith pre-test and post-test design.	90 pediatric patients aged 3-6 years	played clay, origami, a combination of origami and clay	There are differences in anxiety levels before and after being given clay play therapy with a p-value of 0.000 < 0.05, origami play therapy with a p-value of 0.000 < 0.05, a combination of clay play therapy and origami with a p-value of 0.000 < 0.05.		
3.	Story Telling In A Play Therapy On Anxiety Level In Pre-School		section	groups are given storytelling or storytelling about imaginary or	The results showed a significant strorytelling effect on anxiety levels with a <i>p-value</i> of 0.003 < 0.05 compared to the control group with a <i>p-value</i> of 0.219 > 0.05.		
4.	Interventios Play Therapy:	pretest-posttest one group design.	pediatric patients were divided into 2groups.	group was given	The results showed average levels of anxiety before and after being given coloring and origami play therapy with a <i>p-value of</i> 0.001 < 0.05.		
5.		Randomised Control Trial.	60 preschoo aged children (3-6 years)	linterventions in the form of drawing. While the playing	Results foundsignificant differences in art therapy and play therapy compared to the control group with a <i>p-value</i> of 0.0001 < 0.001		
6.	a Therapeutic Play/Play Therapy Program on	group and a pretest-posttest design.	65 children aged 6-12	group was given a game of caring for dolls or animals	The results showeda significant decrease in anxiety values after being given play therapy with a <i>p-value</i> of =0.001.		

playing with dolls or animals with medical kit play. This type of solitary play therapy can

TABLE 1: (Continued).

No.	Title, Author, Pub-	Study Design	Sample	Intervention	Outcome
7.	Iication Year Comparison Study of Art Therapy and Play Therapy in Reducing Anxiety on Pre-School Children Who Experience Hospitalization. [10]	experimental		art therapy in the	
8.	Playing Puzzles Against The Anxiety of Preschoolers Who Undergo Hospitalization at Cibabat Regional General Hospital Cimahi City in 2018 [11]	Quasi experiment	children were divided into coloring play therapy groups and	play therapy group is taught how todraw and then give a	The results showed that there was a decrease in anxiety levels in children who underwent hospitalization after being given coloring and puzzle play therapy with a p- value of 0.001 < 0.05.
9.	Effectiveness of origami on hospitalized anxiety among children. [12]	Quasi experimental study.	40 children undergoing treatment in the children's ward.	group was given play therapy using origami paper by folding into	The resultsof the intervention group were more significant in lowering anxiety levels compared to the control group with a <i>p</i> -value of 0.001 < 0.05.
10.	The Effect of Therapy Containing Puzzle on Decreasing Anxiety of Hospitalized Children Aged 3-6 Years. [13]	experimental	32 children aged 3-6 years	group gets therapy playing	The results showed that the intervention group with the administration of puzzle play therapy in preschool-aged children who were hospitalized had an effect on decreasing their anxiety with <i>a p-value</i> = 0.000 < 0.05.

also be done by playing with clay which is a kind of material that resembles a soft wax and is easy to shape. Playing clay can develop motor skills in children.

TABLE 1: (Continued).

No.	Title, Author, Pub-	Study Design	Sample	Intervention	Outcome
11.	Fairy Tale Therapy of The Kancil Against Decreased Anxiety of Children Hospitalization at Haji Makassar Hospital [14]		16 children were hospitalized in accordance with the criteria for inclusion and exclusion.	tales of the kan- cil using puppets andcrocodiles.	There were significant results in the reduction of hospitalization anxiety in children after being given storytelling therapy with a p-value of 0.000 < 0.05.
12.		Quasi experimental		drawing using a picture book. To color images using picture	There were significant results in decreased anxiety hospitalization in children after being given drawing play therapy with a p-value of 0.001 < 0.05 and coloring play therapy with a p-value of 0.000 < 0.05.
13.	Effect of Coloring Body Part Ther- apy On Anxiety In Preschool-Aged Children [15]		patients were found in accordance with the	their body parts, then children are given the opportunity to choose which	The results of the appointment had an effect after being given coloring body part play therapy to decrease the anxiety of children undergoing hospitalization with a p-value of 0.006. < 0.05
14.	The effect of play puzzle therapy on anxiety of children on preschooler in Kota Kendari hos- pital. [16]	experimental	undergoing treatment in the	given scrambled puzzle play therapy, asked	The results showed a significant reduction in anxiety levels after being given play therapy with <i>a p-value of</i> 0.000<0.05.
15.	Effect of Therapeutic Play Interventions On Decreased Value of Preschool Hospitalization Anxiety At Rsup dr. Hasan Sadikin Bandung [17]	•	36 preschoolage children	group, researchers gave a modified coloring book from the coloring book and then the	The results showed that there was an influence after being given therapeutic play therapy with coloring play against a decrease in the anxiety value of hospitalization of preschoolers with a p-value of 0.000 < 0.05

There are 2 articles that use associative play. One of the types of associative play therapy is playing origami by teaching children to make toys such as animals, flowers, etc. from origami paper and then asking the children to imitate them. Playing origami with a therapist can develop social skills. This is because the game involves social interaction between the child and the therapist with little or no organization [21].

Conclusion



Based on the analysis of 15 journal articles, it was found that the type of play therapy to reduce anxiety levels in children during hospitalization, based on the contents, namely: skill play and dramatic role play and the most widely, namely skill play, found in 12 of the 15 articles using puzzle games contained in 5 articles, coloring 4 articles, drawing 3 articles, folding origami paper 2 articles, forming clay 1 article, caring for dolls using a medical kit play 1 article and coloring body part 1 article. While the type of play therapy based on social characteristics is solitary play and associative play and the most is solitary play, found in 9 out of 15 articles by using puzzle games found in 4 articles, drawing 3 articles, coloring 3 articles, forming clay 1 article, folding 1 article of origami paper, coloring body part 1 article and forming 1 article of clay.

acknowledgments

There is no standard way to write acknowledgments. This section allows you to thank all the people who helped you with the project. You can take either formal.

References

- [1] W. Wahyuni, "Tingkat Kecemasan Pada Anak Pra.," *Agustus*. vol. XIV, no. 2, p. 100, 2016.
- [2] M.L. Samosir, "Asuhan Keperawatan Jiwa Dengan Masalah Kecemasan Pada Penderita Hipertensi: Studi Kasus.," p. 2019.
- [3] N.E. Dayani, L.Y. Budiarti, and D.R. Lestari, "Terapi Bermain Clay Terhadap Kecemasan Pada Anak.," *Terapi Bermain Clay*. vol. 3, no. 2, pp. 1–15, 2015.
- [4] S.G.T. da Silva, M.A. Santos, C.M. de F. Floriano, E.B.C. Damião, F.V. de Campos, and L.M. Rossato, "Influence of Therapeutic Play on the anxiety of hospitalized schoolage children: Clinical trial.," *Revista brasileira de enfermagem.* p. 2017.
- [5] N.S. Kodiriya, Z. Munir, K. Kholisotin, A.K. Fauzi, and A.H. Wahid, "The effectiveness of playing Clay and Origami therapy to reduce anxiety pediatric patients hospitalized.," *Jurnal Aisyah: Jurnal Ilmu Kesehatan*. p. 2019.
- [6] M. Yati, S. Wahyuni, and I. Islaeli, "The Effect Of Story Telling In A Play Therapy On Anxiety Level In Pre-School Children During Hospitalization In The General Hospital Of Buton.," *Public Health of Indonesia*. p. 2017.
- [7] H. Juwita, Fitriani, A. Syahrir, et al., "Effectiveness of Multimodal Interventions Play Therapy: Colouring and Origami Against Anxiety Levels in Toddler Ages.," *Journal of Health Science and Prevention*. p. 2019.



- [8] S.R. Dalei, G.R. Nayak, and R. Pradhan, "Effect of art therapy and play therapy on anxiety among hospitalized preschool children.," *Journal of Biomedical Sciences*. p. 2020.
- [9] M. Zengin, E.H. Yayan, and M.E. Duken, "The Effects of a Therapeutic Play/Play Therapy Program on the Fear and Anxiety Levels of Hospitalized Children After Liver Transplantation.," *Journal of Perianesthesia Nursing*. vol. 36, no. 1, pp. 81–85, 2020.
- [10] S. Ramdaniati, S. Hermaningsih, and M. , "Comparison Study of Art Therapy and Play Therapy in Reducing Anxiety on Pre-School Children Who Experience Hospitalization.," Open Journal of Nursing. p. 2016.
- [11] D. Apriany, Oyoh, and A.F. Maruf, "Perbedaan Efektivitas Terapi Mewarnai Dan Bermain Puzzle Terhadap Kecemasan Anak Prasekolah Yang Mengalami Hospitalisasi Di Rumah Sakit Umum Daerah Cibabat Kota Cimahi Tahun 2018.," *PINLITAMAS 1.* vol. 1, no. 1, p. 2018.
- [12] C.S.M. Christabel, "Effectiveness of origami on hospitalized anxiety among children.," International Journal of Advance Research and Development. p. 2018.
- [13] D.R. Dewi, A. Lestari, and D. Vellyana, "The Effect of Therapy Containing Puzzle on Decreasing Anxiety of Hospitalized Children Aged 3–6 Years.," Presented at the (2020).
- [14] Jumasing, Syisnawati, and Patima, "Terapi Dongeng Si Kancil Terhadap Penurunan Kecemasan Anak Hospitalisasi Di RSUD Haji Makassar.," *Alauddin Scientific Journal of Nursing*. vol. 1, no. 2, pp. 66–72, 2021.
- [15] A. Budianto, G. Irianto, and E. Noerkayatmi, "Pengaruh Terapi Coloring Body Part Terhadap Kecemasan Pada Anak Usia Prasekolah.," *Jurnal Kesehatan*. vol. 9, no. 2, p. 2020.
- [16] I. Islaeli, M. Yati, Islamiyah, and F.R. Fadmi, "The effect of play puzzle therapy on anxiety of children on preschooler in Kota Kendari hospital.," *Enfermeria Clinica*. p. 2020.
- [17] E. Rahmadani, M. Damayanti, and W. Mardhiyah, "Pengaruh Intervensi Bermain Terapeutik Terhadap Penurunan Nilai Kecemasan Hospitalisasi Anak Prasekolah Di RSUP dr. Hasan Sadikin Bandung.," *Journal of Nursing and Public Health.* vol. 5, no. 2, p. 2017.
- [18] I. (2017). Saputro, H., & Fazrin, *Anak Sakit Wajib Bermain di Rumah Sakit. In Sukarejo Forikes.*, 2017.



- [19] I.L. Sutikno and R. Ratulangi, "Meningkatkan Kreativitas Anak Melalui Kegiatan Membuat Garnish Hidangan.," *Jurnal Riset Golden Age Paud Uho.* vol. 2, no. 2, p. 101, 2019.
- [20] zahrina yan wiky, "PENGARUH DRAMATICAL PLAY DALAM PEER GROUP TERHADAP DI RSUD TUGUREJO SEMARANG Wiky Yan Zahrina *), Dera Alfiyanti **), Ulfa Nurullita ***) Penyakit akut umumnya terjadi pada menyebabkan anak dirawat di yang menyebabkan hospitalisasi yang dilakukan oleh pen.," p. 2008.
- [21] M. Latif, Orientasi Baru Pendidikan Anak Usia Dini. In Orientasi Baru Pendidikan Anak Usia Dini. Kencana., 2016.