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Article

The Effects of Group Sandplay Therapy (GST) on Child Victims of Cyberbullying: Focusing on Internalizing and Externalizing Problems

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Abstract: Objective: Cyberbullying among children and adolescents is a serious and increasingly prevalent issue worldwide. Victims often experience various emotional issues such as depression, anxiety, and suicidal thoughts, as well as disruptive and impulsive behavioral problems. Therefore, effective therapeutic interventions and social support are essential. This study investigated the effects of group sandplay therapy (GST) on children who have been victims of cyberbullying. **Method:** This study was designed as a non-randomized controlled trial with an intervention group and a control group. The participants included 127 children aged 11 to 12 years old who had experienced cyberbullying, with 64 participants in the GST intervention group and 63 participants in a matched control group based on gender and age. The intervention group participated in 10 GST sessions, each lasting 40 minutes, held once a week in groups of three or four. The control group received no treatment. The Korean Youth Self Report (K-YSR) was employed to evaluate the effectiveness of the intervention. **Results:** The results indicated that the GST intervention group experienced significant reductions in anxiety/depression ($F = 7.09, p = .009, \eta^2 = .057$), somatic symptoms ($F = 10.02, p = .002, \eta^2 = .079$), and aggressive behavior ($F = 3.94, p = .049, \eta^2 = .033$) on the K-YSR scale compared to the control group. **Conclusion:** Thus, GST was found to be effective in alleviating negative emotions and aggressive behavior in children affected by cyberbullying.

Keywords: Cyberbullying; group sandplay therapy; sandplay therapy

1. Introduction

Cyberbullying among children and adolescents has rapidly increased globally and is now one of the most prominent forms of cybercrime [1,2]. Kowalski et al [2] defined cyberbullying as “the use of electronic communication devices as a medium to harass someone.” This form of bullying can manifest in various ways, including text messaging, emails, social media, chat rooms, and blogs [3]. A meta-analysis by Li et al [4] highlighted that the rapid development of information and communication technology, coupled with the widespread use of mobile devices by children and adolescents, has led to the emergence of cyberbullying as a new form of harassment. In particular, violent incidents among children and adolescents are becoming increasingly prevalent in virtual spaces rather than being confined to the real world [5].

A survey conducted across 25 countries involving 7,644 children and adolescents aged 8 to 17 years old found that, on average, 37% had experienced cyberbullying [6]. In Australia, the UK,

Canada, and the United States, reports indicate that between 10% and 42% of respondents have experienced cyberbullying [7]. According to the 2023 Cyberbullying Survey in South Korea, 36.8% of 9,218 children and adolescents aged 10 to 18 years old experienced incidents of cyberbullying [8].

Children and adolescents often hesitate to report cyberbullying victimization to teachers or parents or to seek help due to feelings of conflict and a sense of being misunderstood because of parental supervision and control over their online activities [5]. This passivity can lead to serious consequences, such as refusing to attend school, giving up hobbies, and withdrawing from social interactions [9]. Hu et al[10] found a significant positive association between cyberbullying victimization and depression among children and adolescents, based on findings from 57 studies across 17 countries. A study involving 845 Spanish adolescents aged 13 to 17 years old by Gámez-Guadix et al[11] found that experiencing cyberbullying can lead to depression, which in turn increases the likelihood of re-exposure to cyberbullying. Children and adolescents who face cyberbullying are known to experience internalizing problems, such as depression, anxiety, and suicidal ideation, as well as externalizing problems, including aggressive and impulsive behaviors like violence and substance abuse [12,13]. Studies indicate that victims of cyberbullying are at a higher risk for school-related issues such as truancy, tardiness, and school rule violations, as well as deviant behaviors such as drug and alcohol abuse [14,15]. Furthermore, a study involving 638 Bulgarian adolescents aged 12 to 17 years old found that victims of cyberbullying experienced sleep and eating disorders. These issues persisted over a six-month period, demonstrating the negative impact that cyberbullying can have on physical health, including the development of somatic symptoms [9].

Traumatic experiences such as cyberbullying put children and adolescents at high risk for both physical and psychological problems and can affect neurobiological brain development [16]. Childhood trauma can lead to cognitive, emotional, and social issues, including ADHD, depression, anxiety, and personality disorders, and these problems can continue into adulthood [17]. Additionally, victims of cyberbullying may also become bystanders or even perpetrators of violence [18]. Therefore, early intervention is crucial for children and adolescents exposed to cyberbullying, as it can help break the cycle of repeated victimization and prevent long-term psychological sequelae and side effects.

Sandplay therapy is a psychotherapy method that became widespread with the founding of the International Society for Sandplay Therapy (ISST) in 1985. It has been widely utilized not only in Western countries but also in Asia and Latin America, where it has experienced significant growth over the past 15 years [19]. This therapy has been applied to a diverse range of subjects, including infants, children, and adolescents with emotional and behavioral problems; children exposed to abuse and violence; and children and adults with post-traumatic stress disorder [19,20,21]. In particular, sandplay therapy has proven effective in reducing negative emotions and improving behavioral problems among both children and adults who have experienced traumatic events, including children who have been sexually abused [22], children who survived an earthquake in Nepal[23], refugee preschoolers who experienced a tsunami[24], children who have been victims of abuse[25], war veterans[26], migrant women exposed to domestic violence[27], and children who experienced the World Trade Center attacks [28]. However, research on the effectiveness of GST for victims of cyberbullying remains limited. Thus, this study aims to examine the effectiveness of GST in alleviating internalizing and externalizing problems for children who have been victims of cyberbullying.

2. Methods

2.1. Study Design

This study was designed as a non-randomized controlled trial consisting of an intervention group and a control group to evaluate the effectiveness of GST for children who are victims of cyberbullying. The intervention group received GST following a pre-test, while the control group received no treatment. Both groups underwent pre- and post-tests. The research was conducted over 18 months, from September 2022 to December 2023, in a sandplay therapy room at an elementary school in Asan, South Korea. Before starting the program, two sandplay therapy specialists and two child counseling experts convened multiple meetings to discuss the rules, suggestions, methods of

implementation, and necessary precautions for it. The program was conducted by a professional therapist with over 10 years of experience in sandplay therapy, with clinical supervision provided by a pediatric and adolescent psychiatrist.

2.2. Participants

A cyberbullying victimization survey was conducted among 573 fifth and sixth-grade students at an elementary school in Asan City. From this group, 195 children were selected based on their responses to eight questions addressing their experiences with cyberbullying. These questions measured the frequency of victimization, with the following options: 1) at least once or twice every six months in the past year, 2) once or twice a month, 3) once or twice a week, and 4) once or twice almost every day. Based on the work of Kowalski et al.[29] the victims were identified based on their frequency of victimization, as cyberbullying typically does not occur as a single event; instead, it often involves the ongoing sharing and disseminating of harmful photos, comments, and content. The inclusion criteria required that children had experienced cyberbullying within the past year, as determined through a questionnaire. Participants were limited to those who voluntarily agreed to be involved in the study and who had obtained parental consent. Of the 195 children, 68 were excluded due to refusal to participate in the program ($n = 64$) and hospital care ($n = 4$). Consequently, 127 children received the intervention and were evaluated in this study. They were diagnosed and assessed by a pediatric psychiatrist according to the DSM-5 criteria, ensuring that none had developmental disorders such as childhood psychosis, autism, or intellectual disabilities, nor were they taking any medications. Among them, 64 students were randomized to the GST intervention group, while 63 were assigned to the control group. There were no instances of comorbid mental disorders in the intervention group.

2.3. Intervention

Before the study began, the purpose and procedures were clearly explained, and written informed consent was obtained from all participating children. Those in the GST intervention group received ten 40-minute sandplay therapy sessions held once a week during after-school hours or creative hands-on activity periods. Each child was provided with a sand tray measuring 72 cm wide, 57 cm high, and 7 cm deep, in accordance with international standards. Each therapy group consisted of one therapist and 3 to 4 children. The program included thousands of miniatures representing people, buildings, plants, animals, vehicles, and household items, which were shared among the children. The program was adapted from Boik and Goodwin's[20] Sandplay Therapy: A Step-by-Step Manual for Psychotherapists of Diverse Orientation and Kalff's[30] Introduction to Sandplay Therapy, based on the school sandplay group therapy program developed by Kwak et al[31] (Table 1). During the sessions, children created sand trays, showcased their finished works, and shared their experiences with group members. The group members interacted with and supported one another, and the therapist encouraged free expression of their emotions.

2.4. Measures

2.4.1. Korean Youth Self Report: K-YSR

The Youth Self Report (YSR), developed by Achenbach (1991), is a self-report measure used to assess emotional/behavioral issues in adolescents between the ages of 11 and 18. In this study, the Korean Youth Self Report (K-YSR), adapted and standardized by Oh et al[32], was utilized. The K-YSR includes the Problem Behavior Syndrome Scale and the Social Competence Syndrome Scale, with each item rated on a 3-point Likert scale. For this research, only the Problem Behavior Syndrome Scale was employed. This scale comprises nine subscales, including internalizing (anxiety/depression, withdrawal/depression, somatic symptoms), externalizing (aggressive behavior, rule-breaking), social immaturity, cognitive issues, attention problems, and other problems. In this study, Cronbach's α was .949.

2.5. Statistical Analysis

IBM SPSS Statistics 28.0 was used for statistical analysis. Chi-squared tests were conducted for gender comparisons, while t-tests were performed for age comparisons to assess the homogeneity of demographic characteristics. Repeated Measures Analysis of Variance (RM-ANOVA) was employed to evaluate pre-post changes between the intervention and control groups.

2.6. Ethical Considerations and Informed Consent

This study was conducted in accordance with the Declaration of Helsinki and received approval from the Institutional Review Board and Research Ethics Committee of Dankook University (Identification Code: DKU 2020-03-004). The purpose and procedures of the study were thoroughly explained to all participating children. Written informed consent was obtained from both the participating children and their parents, who were informed that they could withdraw their consent at any time during the study.

Table 1. Contents of the GST intervention program.

Directives	Session	Progress of sandplay therapy
Departure	1	Freely express the emotions and sensations that come from touching the sand.
Self-emotional contact and expression	2	Close your eyes and touch the sand. Feel free to experience any emotions, including sadness, pain, happiness, and worry, and express them in the sand tray.
	3	Reflect on past events and situations you've experienced and freely express your inner emotions.
Conflict and struggle	4	Feel free to experience and express any negative emotions, such as conflict and struggles.
	5	Envision a hero confronting pain and hardship, and recreate that scene in the sand.
Relationships (family, friends, school)	6	Freely express the emotions that arise when you think about your family.
	7	Freely express the emotions that arise when you think of your friends and school.
Self-understanding and acceptance	8	Express yourself in the sand tray (including your negative self, positive self, past, present, and future self).
	9	Recall the sand creations you have made so far and express what lies at the core of your heart.
Rebirth (integration)	10	Imagine a new version of yourself, the future you, and express how you've grown.

Refer to Kwak (2020)'s group program.

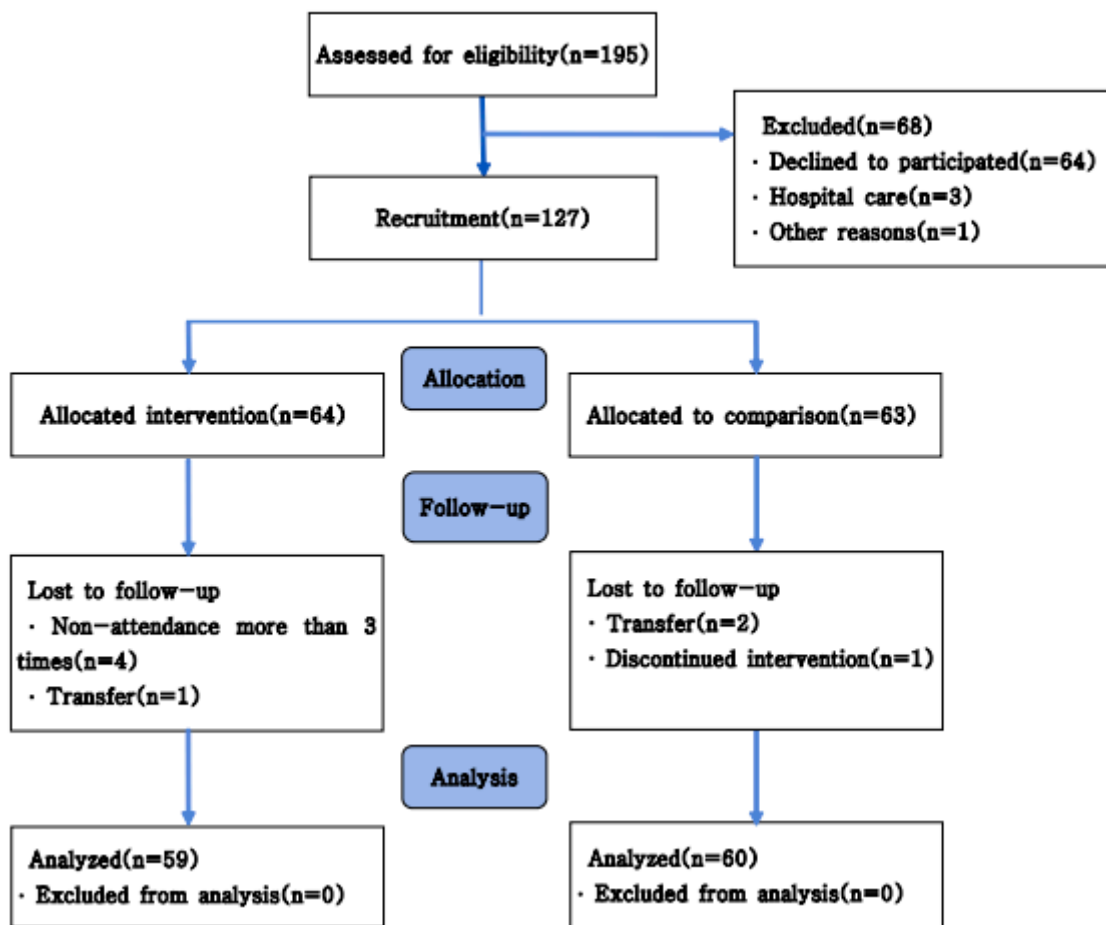


Figure 1. Flow diagram of participants.

3. Results

3.1. Demographic Characteristics

Of the 127 children who agreed to participate, 119 completed the post-test (GST = 59, COMP = 60). Five children from the intervention group were excluded from the analysis because they missed three or more sessions ($n = 4$) or transferred to another school ($n = 1$). In the control group, three participants were excluded from the analysis due to transferring to another school ($n=2$) or other interventions ($n=1$) (Figure 1). All participating children were 11-12 years old. The mean age of the intervention group was 11.39 years ($SD = 0.48$), while the mean age of the control group was 11.32 years ($SD = 0.47$). No statistically significant differences were found between the two groups in terms of age ($t = .70, p = .404$) or gender ($\chi^2 = .014, p = .906$) (Table 2).

Table 2. Demographic characteristics of the intervention group ($n = 59$) and control group ($n = 60$).

Variables	GST ($n = 59$)	COMP ($n = 60$)	t/χ^2	P value
Age	11.39 \pm 0.49	11.32 \pm 0.47	.697	.404
11 years old	36 (61.0)	41 (68.3)		
12 years old	23 (39.0)	19 (31.7)		
Sex			.014	.906
Male	22 (37.3)	23 (38.3)		
Female	37 (62.7)	37 (61.7)		

3.2. Changes in K-YSR After GST Intervention

An independent samples t-test was conducted to assess the homogeneity between the intervention and control groups. No statistically significant differences were found between the two groups regarding the total problem behavior score and syndrome subscales of the K-YSR. While the K-YSR total problem behavior score did not show significant differences between groups, there were significant changes over time ($F = 4.171, P = .043$) and interaction between the groups ($F = 4.755, P = .031$). Anxiety/depression was not significant in the main effect of the group but was significant in the main effect of time ($F = 9.313, P = .003$) and the interaction effect ($F = 7.039, P = .009$). Somatic symptoms ($F = 10.023, P = .002$), aggressive behavior ($F = 3.940, P = .049$), social immaturity ($F = 10.632, P = .001$), and attention problems ($F = 4.079, P = .046$) were not significant in the main effects of group and time but were significant in the interaction effect. Other problems were significant for the group ($F = 5.004, P = .027$) but not for time and interaction. Withdrawal/depression, rule-breaking, and cognitive issues were not significant for group, time, or interaction. Overall, after the GST intervention, the intervention group exhibited significant reductions in the K-YSR total problem behavior score, anxiety/depression, somatic symptoms, aggressive behavior, social immaturity, and attention problems compared to the control group (Table 3).

Table 3. Pre- and post-test differences between intervention and control groups using RM-ANOVA (N = 119).

Variables	Group (N)	Mean \pm SD		Group F (P)	Time F (P)	Group \times Time F (P)
		Pre	Post			
Total problem behavior score				1.466	4.171*	4.755*
	Intervention (59)	53.14 \pm 10.66	49.07 \pm 9.24	(.228)	(.043)	(.031)
	Control (60)	53.23 \pm 10.95	53.37 \pm 13.52			
Anxiety/depression				1.351	9.313*	7.093**
	Intervention (59)	56.61 \pm 6.59	52.93 \pm 4.61	(.248)	(.003)	(.009)
	Control (60)	56.33 \pm 9.29	56.08 \pm 8.91			
Withdrawal/depression				.066	2.962	3.712
	Intervention (59)	56.39 \pm 7.71	54.32 \pm 6.32	(.798)	(.088)	(.056)
	Control (60)	54.98 \pm 7.89	55.10 \pm 7.45			
Somatic symptoms				1.519	.479	10.023**
	Intervention (59)	54.47 \pm 5.16	52.53 \pm 4.17	(.220)	(.490)	(.002)
	Control (60)	54.05 \pm 6.49	55.30 \pm 7.20			
Rule-				1.460	.119	3.487

breaking	Intervention (59)	53.86 ± 5.71	53.12 ± 4.57	(.229)	(.731)	(.064)
	Control (60)	53.95 ± 4.72	55.03 ± 5.86			
Aggressive behavior	Intervention (59)	55.61 ± 6.71	53.51 ± 6.34	(.099)	(.083)	(.049)
	Control (60)	56.37 ± 6.83	56.50 ± 7.51			
Social immaturity	Intervention (59)	57.15 ± 6.78	54.51 ± 5.94	(.912)	(.309)	(.001)
	Control (60)	55.27 ± 7.34	56.65 ± 8.24			
Cognitive issues	Intervention (59)	56.76 ± 7.23	55.14 ± 6.59	(.958)	(.203)	(.280)
	Control (60)	55.95 ± 8.03	55.82 ± 8.89			
Attention problems	Intervention (59)	54.27 ± 7.87	51.83 ± 3.71	(.784)	(.128)	(.046)
	Control (60)	53.12 ± 5.24	53.45 ± 6.21			
Other problems	Intervention (59)	53.42 ± 4.60	53.39 ± 5.96	(.027)	(.881)	(.834)
	Control (60)	55.33 ± 5.85	55.53 ± 6.59			

Total problem behavior score = Anxiety/depression + withdrawal/depression + somatic symptoms + rule-breaking + aggressive behavior + social immaturity + cognitive issues + attention problems + other problems, RM-ANOVA (Repeated Measures Analysis of Variance). * $p < .05$, ** $p < .01$, *** $p < .001$.

4. Conclusions and Discussion

This study aimed to test the effectiveness of GST on internalizing and externalizing problems in children who had experienced cyberbullying. The findings indicated positive changes in anxiety/depression, somatic symptoms, aggressive behavior, social immaturity, and attention problems in the intervention group after GST intervention.

First, GST reduced the negative emotional symptoms of anxiety and depression in the intervention group. This result aligns with previous research on school violence [31,33]. For instance, a study involving 105 immigrant and refugee preschoolers in a multiethnic South Asian neighborhood found that sandplay therapy significantly alleviated anxiety and depression in 52 participants from the intervention group [24]. In addition, a study examining the effects of GST on

the psychological health and resilience of 12 adolescent survivors of a 2015 earthquake in Nepal showed a decrease in anxiety/depression and withdrawal/depression, indicating that the program effectively improved their psychological health [23].

Second, the somatic symptoms of children in the GST intervention group decreased significantly, supporting previous studies on the effectiveness of GST for these issues. Roubenzadeh et al[34] conducted GST with adolescents who were grieving the loss of a family member and reported that 10 adolescents in the intervention group had significantly reduced somatic symptoms and were more effective in coping with their feelings of grief compared to the control group. Lee[35] found improvements in somatic symptoms among children from divorced families after participating in GST. Cao et al[36] reported that adolescents with PTSD exhibited improvements in both somatic and negative emotional symptoms following sandplay therapy, with effects sustained at a six-month follow-up.

Third, children in the intervention group exhibited reductions in aggressive behavior after GST intervention, which was consistent with previous studies. Han[37] investigated the effects of sandplay therapy on 20 children (10 from the intervention group, 10 from the control group) aged 4 to 5 years old with externalizing problems and reported a decrease in aggressive behavior and negative peer interaction problems. In a study of preadolescents with conduct disorders (n = 56), the intervention group (n = 28) demonstrated significant differences in teacher-rated externalizing problem behaviors after GST intervention compared to the control group. These findings suggest that GST may have a positive therapeutic effect on preadolescents with conduct disorders and help prevent their symptoms from worsening [38]. Furthermore, Sim and Jang[39] found that sandplay therapy led to decreased aggressive behavior and positive changes in EEG indices related to aggression among nine female juvenile delinquents.

Fourth, significant improvements in social immaturity and internalizing/externalizing problems were found in the intervention group after GST, which is consistent with previous studies. Zheng and Hu[40] implemented GST for adolescents from divorced families. After the intervention, the intervention group showed enhanced interpersonal trust levels compared to the control group, suggesting that GST can help improve interpersonal problems. Kazemi et al.[41] also reported that among 30 children aged 7 to 12 years old diagnosed with separation anxiety disorder, 15 children in the intervention group showed improved social skills and adaptability after receiving sandplay therapy.

Finally, the intervention group demonstrated improvements in attention problems after GST. These results support previous studies that reported the effectiveness of sandplay therapy in addressing attention deficit issues in children with ADHD [42,43]. Wang et al[44] reported reductions in symptoms of attention deficit, hyperactivity, impulsivity, and inattention in the intervention group (n = 15) after 12 sessions of sandplay therapy, which is consistent with the present study.

Although there are only a few studies on the effectiveness of sandplay therapy for school violence victims, school sandplay group therapy reduced depression and suicidal ideation and increased self-esteem among these victims. GST was also found to be effective in improving self-expression and school adjustment in victims of school violence [45]. Matta and Ramos[25] observed improvements in both internalizing and externalizing problems among a group of 60 children (aged 6 to 10 years old) exposed to violence after participating in sandplay therapy. The findings of this study are interpreted as a result of the children expressing their emotions and experiences without resistance in a safe and sheltered space [30]. The therapist did not interpret or direct the sand tray but instead unconditionally accepted the children without judgment, providing the trust and safety needed for them to express their trauma. It is believed that through non-verbal communication using sand and symbols, the children in this study could safely and freely articulate their trauma, leading to improvements in negative emotions and aggressive behaviors. Trauma is a sensory-based experience stored in implicit memory, which can impair brain function. GST is thought to help transform trauma from implicit to explicit memory, promoting healing by restoring brain function through a creative and emotional approach that uses physical sensations, such as seeing, touching, and feeling the sand [16,21].

The limitations of this study are as follows. First, the evaluation relied solely on self-reported questionnaires. Further research, including EEG or neuroimaging studies, as well as parent and teacher evaluations, is needed to objectively and scientifically validate the effectiveness of GST. Second, since only one evaluation was conducted immediately after completing the GST intervention, follow-up studies are needed to confirm the long-term treatment effects of GST. Third, there are limitations in generalizing the effectiveness of the program because it was implemented in a single elementary school within a single region, so future studies should include a broader range of regions and age groups. Despite these limitations, this study is significant as it is one of the few to examine the clinical effectiveness of GST on child victims of cyberbullying. It uses the K-YSR to assess the effectiveness of GST across subscales, including internalizing/externalizing problem behaviors. The findings suggest that GST is an effective technique for treating trauma related to abuse, violence, disasters, and the aftereffects of violence experienced in cyberspace.

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Institutional Review Board Statement: The study was conducted in accordance with the Declaration of Helsinki and approved by the ethical review committee of Dankook University Hospital (DKU 2020-03-004).

Informed Consent Statement: All participants were informed that participation was voluntary and provided written, informed consent. No competing interests.

Availability of data and materials: The datasets generated during and/or analyzed during the current study are available from the corresponding author on reasonable request.

Conflicts of Interest: The authors declare that they have no competing interests.

Abbreviations

GST= Group Sandplay Therapy.

References

1. Beckman, L.; Hagquist, C.; Hellström, L. Does the Association with Psychosomatic Health Problems Differ between Cyberbullying and Traditional Bullying? *Emot. Behav. Difficulties* **2012**, *17* (3–4), 421–434. <https://doi.org/10.1080/13632752.2012.704228>.
2. Kowalski, R. M.; Giumetti, G. W.; Schroeder, A. N.; Lattanner, M. R. Bullying in the Digital Age: A Critical Review and Meta-Analysis of Cyberbullying Research among Youth. *Psychol. Bull.* **2014**, *140* (4), 1073–1137. <https://doi.org/10.1037/a0035618>.
3. Fauman, M. A. Cyber Bullying: Bullying in the Digital Age. *Am. J. Psychiatry* **2008**, *165* (6), 780–781. <https://doi.org/10.1176/appi.ajp.2008.08020226>.
4. Li, C.; Wang, P.; Martin-Moratinos, M.; Bella-Fernández, M.; Blasco-Fontecilla, H. Traditional Bullying and Cyberbullying in the Digital Age and Its Associated Mental Health Problems in Children and Adolescents: A Meta-Analysis. *Eur. Child Adolesc. Psychiatry* **2022**. <https://doi.org/10.1007/s00787-022-02128-x>.
5. Umesh, B.; Ali, N. N.; Farzana, R.; Bindal, P.; Aminath, N. N. Student and Teachers Perspective on Cyberbullying. *J. Forensic Psychol.* **2018**, *3* (132), 1–6.
6. Bhat, C. S.; Chang, S.-H.; Ragan, M. A. Cyberbullying in Asia. *Educ. Asia* **2013**, *18* (2).
7. Kraft, E. Cyberbullying: A Worldwide Trend of Misusing Technology to Harass Others. *WIT Trans. Inf. Commun. Technol.* **2006**, *36*, 155–166.
8. NIA Statistical information system. Accessed: Jan. 01, 2024. [Online]. Available at :https://www.nia.or.kr/site/nia_kor/ex/bbs/View.do?cbIdx=68302&bcIdx=26483&parentSeq=26483.

9. Mancheva, R. PSYCHOSOMATIC AND BEHAVIORAL SHANGES IN VICTIMS OF GYBERBULLYING. *Knowl. - Int. J.* **2021**, *47* (5), 925–931.
10. Hu, Y.; Bai, Y.; Pan, Y.; Li, S. Cyberbullying Victimization and Depression among Adolescents: A Meta-Analysis. *Psychiatry Res.* **2021**, *305*, 114198. <https://doi.org/10.1016/j.psychres.2021.114198>.
11. Gámez-Guadix, M.; Orue, I.; Smith, P. K.; Calvete, E. Longitudinal and Reciprocal Relations of Cyberbullying With Depression, Substance Use, and Problematic Internet Use Among Adolescents. *J. Adolesc. Health* **2013**, *53* (4), 446–452. <https://doi.org/10.1016/j.jadohealth.2013.03.030>.
12. Fisher, B. W.; Gardella, J. H.; Teurbe-Tolon, A. R. Peer Cybervictimization Among Adolescents and the Associated Internalizing and Externalizing Problems: A Meta-Analysis. *J. Youth Adolesc.* **2016**, *45* (9), 1727–1743. <https://doi.org/10.1007/s10964-016-0541-z>.
13. Sampasa-Kanyinga, H.; Lalande, K.; Colman, I. Cyberbullying Victimization and Internalising and Externalising Problems among Adolescents: The Moderating Role of Parent–Child Relationship and Child’s Sex. *Epidemiol. Psychiatr. Sci.* **2020**, *29*, e8. <https://doi.org/10.1017/S2045796018000653>.
14. Patchin, J. W.; Hinduja, S. Cyberbullying Among Adolescents: Implications for Empirical Research. *J. Adolesc. Health* **2013**, *53* (4), 431–432. <https://doi.org/10.1016/j.jadohealth.2013.07.030>.
15. Ybarra, M. L.; Diener-West, M.; Leaf, P. J. Examining the Overlap in Internet Harassment and School Bullying: Implications for School Intervention. *J. Adolesc. Health* **2007**, *41* (6), S42–S50.
16. Freedle, L. R. Healing Trauma through Sandplay Therapy: A Neuropsychological Perspective. In *The Routledge international handbook of sandplay therapy*; Routledge, **2017**; pp 190–206.
17. Dye, H. The Impact and Long-Term Effects of Childhood Trauma. *J. Hum. Behav. Soc. Environ.* **2018**, *28* (3), 381–392. <https://doi.org/10.1080/10911359.2018.1435328>.
18. Vandebosch, H.; Van Cleemput, K. Cyberbullying among Youngsters: Profiles of Bullies and Victims. *New Media Soc.* **2009**, *11* (8), 1349–1371. <https://doi.org/10.1177/1461444809341263>.
19. Roesler, C. Sandplay Therapy: An Overview of Theory, Applications and Evidence Base. *Arts Psychother.* **2019**, *64*, 84–94. <https://doi.org/10.1016/j.aip.2019.04.001>.
20. Boik, B.; Goodwin, E. A. Sandplay Therapy: A Step By Step Manual For Psychotherapists Of Diverse Orientation; WW Norton & Company, **2000**.
21. Pearson, M.; Wilson, H. Sandplay Therapy: A Safe, Creative Space for Trauma Recovery. *Aust. Couns. Res. J.* **2019**, *13* (1), 20–24.
22. Tornero, M. D. L. A.; Capella, C. Change during Psychotherapy through Sand Play Tray in Children That Have Been Sexually Abused. *Front. Psychol.* **2017**, *8*. <https://doi.org/10.3389/fpsyg.2017.00617>.
23. Lee, S.; Jang, M. The Effect of Group Sandplay Therapy on Psychological Health and Resilience of Adolescent Survivors of Nepal Earthquake. *J. Symb. Sandplay Ther.* **2020**, *11* (2), 45–78. <https://doi.org/10.12964/jsst.20007>.
24. Rousseau, C.; Benoit, M.; Lacroix, L.; Gauthier, M.-F. Evaluation of a Sandplay Program for Preschoolers in a Multiethnic Neighborhood. *J. Child Psychol. Psychiatry* **2009**, *50* (6), 743–750. <https://doi.org/10.1111/j.1469-7610.2008.02003.x>.
25. Matta, R. M. D.; Ramos, D. G. The Effectiveness of Sandplay Therapy in Children Who Are Victims of Maltreatment with Internalizing and Externalizing Behavior Problems. *Estud. Psicol. Camp.* **2021**, *38*, e200036. <https://doi.org/10.1590/1982-0275202138e200036>.
26. Troshikhina, E. Sandplay Therapy for the Healing of Trauma. In *Is this a Culture of Trauma? An Interdisciplinary Perspective*; Brill, **2013**; pp 227–233.
27. Kim, M. An Effect of Sandplay Therapy on PTSD Symptoms of Migrant Women Victims of Domestic Violence in South Korea. *Adv. Sci. Lett.* **2017**, *23* (10), 9594–9597. <https://doi.org/10.1166/asl.2017.9754>.
28. Yeh, C.; Aslan, S.; Mendoza, V.; Tsukamoto, M. The Use of Sandplay Therapy in Urban Elementary Schools as a Crisis Response to the World Trade Center Attacks. *Sch. Educ. Fac. Res.* **2015**.
29. Kowalski, R. M.; Limber, S. P.; Agatston, P. W. Cyber Bullying: The New Moral Frontier. *Oxf. UK Blackwell Publ. Ltd* **2008**, *10*, 9780470694176.
30. Kalff, D. M. Introduction to Sandplay Therapy. *J. Sandplay Ther.* **1991**, *1* (1), 1–4.

31. Kwak, H. J.; Ahn, U. K.; Lim, M. H. The Clinical Effects of School Sandplay Group Therapy on General Children with a Focus on Korea Child & Youth Personality Test. *BMC Psychol.* **2020**, *8* (1), 9. <https://doi.org/10.1186/s40359-020-0378-9>.
32. Oh, K. J.; Ha, E. H.; Lee, H. L.; Hong, K. E. Korean Youth Self Report. *Seoul JungAng Aptit. Publ.* **2001**.
33. Ahn, U. K.; Kwak, H. J.; Lim, M. H. Minnesota Multiphasic Personality Inventory of School Sandplay Group Therapy with Maladjustment Behavior in Korean Adolescent. *Medicine (Baltimore)* **2020**, *99* (50), e23272. <https://doi.org/10.1097/MD.00000000000023272>.
34. Roubenzadeh, Sh.; Abedin, A.; Heidari, M. Effectiveness of Sand Tray Short Term Group Therapy with Grieving Youth. *Procedia - Soc. Behav. Sci.* **2012**, *69*, 2131–2136. <https://doi.org/10.1016/j.sbspro.2012.12.177>.
35. Lee, H. S. Effects of Group Sand-Play Therapy on Children's Improvement in Peer Relational Skills and Reduction in Behavioral Problems. *Unpubl. Master's Thesis Namseoul Univ. Cheonan Korea* **2010**.
36. Cao, J.; Jin, L.; Cui, C.; Cui, M. A Study on the Effects of Sandplay Therapy on Second Grade Middle School Students with PTSD. *J. Symb. Sandplay Ther.* **2019**, *10* (1), 75–103. <https://doi.org/10.12964/jsst.19004>.
37. Han, Y.; Lee, Y.; Suh, J. H. Effects of a Sandplay Therapy Program at a Childcare Center on Children with Externalizing Behavioral Problems. *Arts Psychother.* **2017**, *52*, 24–31. <https://doi.org/10.1016/j.aip.2016.09.008>.
38. Flahive, M. W.; Ray, D. Effect of Group Sandtray Therapy with Preadolescents. *J. Spec. Group Work* **2007**, *32* (4), 362–382. <https://doi.org/10.1080/01933920701476706>.
39. Sim, E.; Jang, M. Effects of Sandplay Therapy on Aggression and Brain Waves of Female Juvenile Delinquents. *J. Symb. Sandplay Ther.* **2013**, *4* (2), 45–50. <https://doi.org/10.12964/jsst.130006>.
40. Zheng, X.; Hu, Y. The Effect of Group Sandplay Therapy on Interpersonal Trust of Adolescents. **2019**.
41. Kazemi, E.; Ashrafi, M.; Maryam Sadat Hosseinzadeh, M. S. H.; Andalibipour, Z.; Rajab Ali, S.; Mehran Mohebian Far, M. M. F. The Effectiveness of Sand Play Therapy on Social Skills and Adaptation of Children with Separation Anxiety. *Iran. J. Educ. Res.* **2024**, *3* (2), 145–156.
42. Ghadampour, E.; Shahbazirad, A.; Haghghi Kermanshahi, M.; Mohammadi, F.; Naseri, N. The Effects of Sand Play Therapy in Reduction of Impulsivity and Attention Deficit in Boys with ADHD. *Q. J. Child Ment. Health* **2018**, *5* (2), 36–46.
43. Li, S.; Lu, Y.; Wu, J. Sandplay Therapy as a Complementary Treatment for Children with ADHD: A Scoping Review. *Issues Ment. Health Nurs.* **2023**, *44* (9), 911–917. <https://doi.org/10.1080/01612840.2023.2249990>.
44. Wang, Q.-M.; Hang, G.; Zhang, X.-L.; He, X.-L.; Wang, D.-D. Effects of Sandplay Therapy in Children with Attention Deficit Hyperactivity Disorders. *Chin. Ment. Health J.* **2010**, *24* (9), 691–695.
45. Park SG, Kim HW, Park BJ. The Effect of Group Sandplay Therapy on Self-Expression and School Adjustment of School Violence Victims. *Korean J. Youth Stud.* **2013**, *20* (8), 175–202.

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