



Aftermath of Child Sexual Abuse in Children in Korea: Data from the Nation-Funded Sexual Violence Victim Protection Center for Children

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Objectives: This study aimed to investigate the 3-year mean periods aftermath of child sexual abuse and to compare the sexual violence victims regard to the treatment.

Methods: 682 sexual violence victims were recruited by Seoul Sunflower Children Center, a nation-funded sexual violence victim protection center for children age 13, from 2004 to 2008. Data from 49 victims among 116 consented a follow-up, were analyzed. The victims were assessed by psychological test. Data was analyzed by SPSS ver. 15.0 (SPSS Inc.).

Results: The average time elapsed from the last presumed sexual abuse was 39.7 months [standard deviation (SD) 26.02]. Overall, Children's Depression Inventory (CDI) was significantly decreased from 15.8 (SD 9.33) to 10.4 (SD 9.98), and several subscales (depression, anxiety, anger, posttraumatic stress, and dissociation) of Trauma Symptom Checklist for Children (TSCC) were also significantly decreased. CDI and TSCC scores showed no statistical difference between treatment-given and not-given groups, but Revised Children's Manifest Anxiety Scale (RCMAS) was decreased in treatment-given group, whereas it was increased in treatment-not-given group. The difference of RCMAS scores between the two groups was statistically significant [$F(1,28)=4.54$, $p < 0.05$].

Conclusion: Sexually abused children showed overall symptom decreases over time, but anxiety was not decreased in treatment not-given group.

Key Words: Child sexual abuse; Treatment; Natural outcome.

Received: January 10, 2017 / Revision: March 22, 2017 / Accepted: October 25, 2017

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INTRODUCTION

Child sexual abuse leads to physical problems such as genital trauma, sexually transmitted disease, and pregnancy as well as multiple psychological symptoms. The related sequelae of child and adolescent psychological trauma include post-traumatic stress disorder (PTSD) symptoms (re-experiencing, hyperarousal, avoidance behavior, nightmare, and dissociation), emotional reactions (depression, attention deficit, sleep disorder, excessive sense of guilt, fear and distrust of strangers), refusal to attend school, lack of confidence, and suicidal ideation and even regressed behaviors (enuresis and encopresis).¹⁻³ On the other hand, increase in inappropriate sexual behavior, such as engaging in excessive mas-

turbation and repeated play imitating sexual intercourse, have also been reported.^{3,4}

Beitchman et al.⁵ performed in 1992 a meta-analysis of 32 studies examining long-term impacts of child sexual abuse and found that victims of child sexual abuse tend to experience sexual dysfunction, anxiety, depression, and suicidal ideation lasting into adulthood. Other problems reported include interpersonal conflicts, low self-esteem, child-rearing difficulties, and substance abuse.⁵

Various interventions have been attempted to address the sequelae of child sexual abuse described above, and many studies investigated therapeutic effects of such interventions. Chard⁶ reported the findings that significant PTSD-related improvements were achieved by administering cognitive behavior therapy in PTSD patients with a history of child sexual abuse and that such results lasted at least one year. In South Korea, Choi et al.⁷ reported significant improvements

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achieved by the cognitive behavioral therapy in PTSD, dissociation, sex-related problems, parent-reported behavioral problems, and so on. Some reported varying therapeutic effects of various types of interventions.^{8,9} Interestingly, some studies reported delayed manifestation of symptoms in victims of child sexual abuse who did not show any symptoms immediately after the event with 10–20% of them showing symptoms 12–18 months after the event.^{10,11} This phenomenon, known as “sleeper effects,” suggests the possibility of recurrence of various sequelae after a considerable lapse of time even in children who completed treatment.

With growing social awareness of and interest in child sexual abuse, various assessments and therapies have been presented. In South Korea, however, there is little empirical research data on psychological sequelae, not to mention follow-up studies tracking sexually victimized children after a longer lapse of time to monitor their psychological states. To fill this research void, we investigated the psychological states of the children who received counseling as sexual abuse victims in the Seoul Sunflower Children’s Center, a nation-funded sexual violence victim protection center.

METHODS

Participants and study design

Total Participants were 682 children who presented to the Seoul Sunflower Children’s Center, a sexual violence victim protection center specializing in child sexual abuse, between 2004 and 2008 and received initial counseling, psychiatric diagnosis, and comprehensive psychological tests. The counselors contacted their parents/caregivers by phone in 2009 and 2010, explained the purpose of the study, and asked about their willingness to participate. One hundred sixteen participants and parents/caregivers of total participants (17%) agreed to participate, and the questionnaires were sent by post to the parents/caregivers who gave informed consent. Of them, 49 (42.2%) returned duly filled-in questionnaires. To check symptoms and adaptation outcomes, we compared the baseline and follow-up psychological test results and analyzed the variables influencing child’s sequelae. This study was approved by the Institutional Review Board of the Yonsei University College of Medicine (IRB No. 2-2009-0169).

Psychiatric diagnosis and psychological evaluation

When a parent/caregiver-child pair presented to the center, diagnostic interview was conducted with the parent/caregiver and the child using the Kiddie-Schedule for Affective Disorders and Schizophrenia-Present and Lifetime Version (K-SADS-PL),¹² and the resulting dataset was used for analysis. The K-SADS-PL is a semi-structured instrument designed

for school-age children (6–18 years). This scale is composed of an overall interview questionnaire and five supplementary scoring questionnaires (affective disorders, psychotic disorders, anxiety disorder, behavior disorder, substance use disorder, and other disorders).

Diagnosis was made in two periods—“present illness” and “past illness”—covering the pre- and post-episode periods, i.e., the time from the sexual abuse episode to the present and the time prior to the sexual abuse episode, respectively. The severity of sequelae was evaluated in a case conference in which certified child and adolescent psychiatrists and certified clinical psychologists carried out comprehensive in-depth evaluations based on the information and data obtained from psychiatric interviews, psychological tests, and behavior observations. The severity of symptom manifestation was rated in four grades of “no symptoms,” “mild” (slight problems manifested but not to the degree of impairing adaptation functioning), “moderate” (experiencing considerable psychological distress with symptoms pertaining to psychiatric diagnostic criteria but treated with psychotherapy and medication over the past six months), and “severe” (experiencing severe psychological distress, undergoing a prolonged treatment in excess of six months and requiring hospitalization).

Psychological measurement instruments

Children’s self-assessment

Children’s Depression Inventory

The Children’s Depression Inventory (CDI) is a scale designed by Kovacs¹³ to assess school children’s depression. Its Korean version (K-CDI), translated and normed by Cho and Lee,¹⁴ was used in this study. The K-CDI consists of 27 items. The reliability of this scale was tested (Cronbach’s $\alpha=0.76$), and it was confirmed to be a reliable scale for assessing children showing depressive symptoms.

Revised Children’s Manifest Anxiety Scale

This study used the Revised Children’s Manifest Anxiety Scale (RCMAS) developed by Reynolds and Richmond¹⁵ and adapted by Choi and Cho (K-RCMAS).¹⁶ The K-RCMAS aims to quantify the degree of anxiety-related symptoms and consists of 37 items. It was tested in an anxiety assessment study with Korean children (test-retest reliability $r=0.79$, interrater reliability $r=0.86$).

Trauma Symptom Checklist for Children

The Trauma Symptom Checklist for Children (TSCC) was developed by Briere¹⁷ and normed by Chung.¹⁸ This mea-

sure consists of two validity scales measuring hyper-response and under-response and six clinical scales comprising anxiety, depression, anger/aggression, posttraumatic stress, dissociation (clear, ambiguous), and sexual concerns (preoccupation, distress). This self-report checklist of trauma symptoms consists of 54 items rated on a 4-point scale from 0 (never) to 3 (almost always). The version used in this study, which was carried out prior to its norming, was the English TSCC version translated faithful to the original by a clinical psychologist and a psychiatrist who are well-versed in both languages and back-translated by another bilingual psychologist. The internal consistency of the original version when it was developed by Briere¹⁷ (Cronbach's alpha) was 0.82–0.89. In the result analysis of this study, both US-normed converted score and raw score were used.

Parents' assessment

Trauma Symptom Checklist for Young Children

The Trauma Symptom Checklist for Young Children (TSCYC) is a scale developed by Briere.¹⁹ It is designed to be completed by parents/caregivers for children ages 8–16 years. This measure contains two validity scales measuring response level and atypical response and nine clinical scales comprising anxiety, depression, anger/aggression, posttraumatic stress intrusion, posttraumatic stress avoidance, posttraumatic stress arousal, posttraumatic stress total, dissociation, and sexual concerns. It consists of 90 items rated on a 4-point scale from 1 (never) to 4 (almost always). The version used in this study, which was carried out prior to its norming by Bae et al.,²⁰ was the English TSCYC version translated faithful to the original by a clinical psychologist and a psychiatrist who are well-versed in both languages and back-translated by another bilingual psychologist. The internal consistency (Cronbach's alpha) of the original version when it was developed by Briere¹⁹ was 0.87. In the result analysis of this study, the raw score of each scale was used.

Korean-Child Behavior Checklist

This measure is designed for parents/caregivers to assess children's adaptation functioning and problem behaviors on a 3-point scale, normed by Oh et al.²¹ based on the original scale developed by Achenbach and Edelbrock.²² The Korean-Child Behavior Checklist (K-CBCL) is divided into the social competence scale and the problematic behavior scale, consisting of 16 and 113 items, respectively. The problematic behavior scale includes withdrawal, somatic complaints, anxiety, immaturity, thought problems, attention problems, delinquent behavior, aggressive behavior, internalizing behavior problems, externalizing behavior problems, total prob-

lems, sexual problems, and emotional instability. Age-equivalent scores were used for analysis.

RESULTS

Demographic characteristics

Of the 49 participants included in data analysis, 42 were girls (85.7%), and 7 were boys (14.3%), similar to the gender ratio of the total participants (n=682) targeted in this study. The mean age at the time of presenting to the Center was 7.31 years [range=2–12, standard deviation (SD)=2.62], and the mean age at the time of this study was 9.61 years (range=3–15, SD=2.93). The time elapsed after the point assumed to be the last time that the child experience sexual abuse varied between 11 and 144 months (mean 39.7 months, SD 26.02).

Sexual abuse data

Looking at the abuse episodes by type, three cases (6.1%) did not involve any physical contact between offender and victim, such as exposure to pornography or display of genital organs, 38 cases (77.5%) involved sexual harassments, and eight cases (16.4%) were rape. In terms of offender type, 27 (55.1%) were strangers, 12 (24.5%) were acquaintances, and 10 (20.4%) were relatives and family members.

Psychiatric diagnosis

Based on the initial psychiatric evaluations and psychological test results, 25 children (51.0%) were given psychiatric diagnoses associated with sexual abuse, and a psychiatric diagnosis was deferred in 24 children (49.0%). Twenty-two children (44.9%) were diagnosed with anxiety disorders, five (13.5%) with depressive disorders, and one (2.7%) with psychogenic amnesia. Most of the children were diagnosed with single disorder and three (8.1%) with multiple diagnosis.

Treatments

Thirty-eight children (77.6%) received psychotherapy, and 11 (22.4%) did not receive any interventions. Looking at the intervention types, sex education for therapeutic purposes was administered to 5 children (14.3%), psychoanalytic play therapy to 20 children (57.1%), cognitive behavioral therapy to 5 children (14.3%), and child-centered counseling therapy to 5 children (14.3%). Three children were referred to other institutions, but the records of their treatment after the referral were not available. The mean number of therapy sessions was 15.4 (range 1–38, SD 10.56). The mean lapse of time from the therapy end to the conduct of this study was 22.3 months (SD 14.95), ranging from 2 to 58 months.

CDI and RCMAS

A statistically significant difference was observed in the CDI scores between the baseline and follow-up means (15.8 vs. 10.4; $F=7.44$, $p<0.01$). In the RCMAS scores, however, no statistically significant difference was found between the baseline and follow-up means (16.4 vs. 16.0; $F=0.05$, $p>0.05$) (Table 1).

K-CBCL

A statistically significant improvement was observed in the score of the positive social competence scale ($F=6.01$, $p<0.05$). Statistically significant decreases were observed in the scores of various subscales of the problematic behavior syndrome scale between the baseline and follow-up means assessments: depression/anxiety ($F=16.13$, $p<0.01$), immaturity ($F=8.35$, $p<0.01$), thought problems ($F=6.80$, $p<0.05$), attention problems ($F=7.48$, $p<0.05$), aggressive behavior ($F=15.64$, $p<0.01$), internalizing behavior problems ($F=17.28$, $p<0.001$), externalizing behavior problems ($F=22.28$, $p<0.001$), and total problems ($F=22.99$, $p>0.001$) (Table 1).

TSCC and TSCYC

In the TSCC, subscale scores decreased; in particular, the follow-up assessment scores of anxiety ($F=8.70$, $p<0.01$), depression ($F=8.75$, $p<0.01$), anger ($F=5.56$, $p<0.05$), trauma symptoms ($F=9.13$, $p<0.01$), and dissociation-preoccupation ($F=5.41$, $p<0.05$) scales were significantly lower than at base-

line. All subscale scores decreased in the TSCYC as well; in particular, the follow-up assessment scores of anxiety ($F=5.49$, $p<0.05$), depression ($F=6.71$, $p<0.05$), posttraumatic stress avoidance ($F=10.11$, $p<0.01$), and posttraumatic stress total ($F=4.89$, $p<0.05$) scales were significantly lower than at baseline (Table 2).

Factors influencing post-trauma adaptation in the victims of sexual abuse

Abuse episode-related variables

The time elapsed from victimization to enrollment in the study and the type of sexual abuse were not found to have any statistically significant association with the scores on the TSCC, TSCYC, K-CBCL, CDI, RCMAS, and Child Health and Illness Profile-Child Edition (CHIP-CE).

After dividing the participants into two groups according to the frequency of abuse (once, twice+), scores on the TSCC, TSCYC, K-CBCL, CHIP-CE, CDI, and RCMAS were compared; as a result, no significant intergroup difference was observed in most of the scales. In the TSCYC measure, however, significantly higher scores were observed in the "twice+" group compared with the "once" group in the scales of posttraumatic stress avoidance ($F=4.34$, $p<0.05$), posttraumatic stress arousal ($F=8.09$, $p<0.01$), and dissociation ($F=9.45$, $p<0.01$). The same trend was observed in the K-CBCL scales

Table 1. Comparison of score of CDI, RCMAS (n=29) and K-CBCL (n=25) between initial assessment and follow-up assessment

	Initial	Follow-up	F
	Mean \pm SD	Mean \pm SD	
CDI score	15.8 \pm 9.33	10.4 \pm 9.98	7.44*
RCMAS score	16.4 \pm 6.41	16.0 \pm 7.29	0.05
K-CBCL score			
Social competence-social	48.0 \pm 10.11	53.3 \pm 15.01	6.01*
Social competence-school	48.2 \pm 19.73	53.7 \pm 9.26	2.11
Total competence	43.4 \pm 20.23	57.8 \pm 13.43	10.88 [†]
Withdrawn	63.1 \pm 28.96	53.8 \pm 13.54	2.36
Somatic complaints	49.6 \pm 13.79	47.4 \pm 7.79	0.54
Anxious/depressed	57.3 \pm 14.45	46.2 \pm 11.32	16.13 [†]
Social problems	53.4 \pm 9.49	47.6 \pm 9.31	8.35 [†]
Thought problems	53.4 \pm 9.41	48.5 \pm 6.41	6.80*
Attention problems	54.7 \pm 12.16	47.2 \pm 9.58	7.48*
Delinquent behavior	50.3 \pm 13.68	45.7 \pm 5.74	2.84
Aggressive behavior	52.0 \pm 8.83	46.0 \pm 8.07	15.64 [†]
Internalizing	57.2 \pm 13.71	47.4 \pm 9.34	17.28 [†]
Externalizing	52.7 \pm 8.92	45.4 \pm 8.03	22.28 [†]
Total problems	55.0 \pm 11.91	44.7 \pm 9.74	22.99 [†]
Sex problems	50.0 \pm 7.62	48.3 \pm 4.20	1.90
Emotional lability	48.1 \pm 7.58	45.2 \pm 4.19	1.83

Comparisons made by t-test. * $p<0.05$, [†] $p<0.01$, [‡] $p<0.001$. CDI: Children's Depression Inventory, K-CBCL: Korean-Child Behavior Checklist, RCMAS: Revised Children's Manifest Anxiety Scale, SD: standard deviation

of thought problems ($F=4.56, p<0.05$), aggressive behavior ($F=8.92, p<0.01$), and externalizing behavior problem ($F=6.55, p<0.05$) (Table 3 and 4).

The participants were divided into three groups depending on the offender type: stranger group, acquaintance group, and relative/family member group, and inter-group differences in the scale scores were investigated. As a result, significant inter-group difference was shown only by the TSCYC dissociation scale. Scheffe's multiple comparison test, which

was performed additionally to analyze the related inter-group differences, revealed that significantly higher scores were yielded by the acquaintance group (mean 12.4, SD 2.07) and the relative/family group (mean 12.4, SD 4.33) compared with the stranger group (mean 9.59, SD 0.87) [$F(2,33)=5.92, p<0.01$].

DISCUSSION

Although the follow-up scores for CDI-based depressive

Table 2. Comparison of score of TSCC (n=20) and TSCYC (n=23) between initial assessment and follow-up assessment

	Initial	Follow-up	F
	Mean ± SD	Mean ± SD	
TSCC			
Anxiety	8.4 ± 4.64	4.7 ± 4.93	8.70 [†]
Depression	6.4 ± 4.51	2.8 ± 3.18	8.75 [†]
Anger	5.8 ± 3.25	3.3 ± 3.69	5.56*
Posttraumatic stress	10.9 ± 5.30	6.3 ± 6.89	9.13 [†]
Dissociation	6.5 ± 3.25	4.2 ± 5.60	3.55
Overt dissociation	5.4 ± 2.84	3.3 ± 4.08	5.41*
Fantasy	1.1 ± 1.23	0.9 ± 1.74	0.13
Sexual concerns	3.7 ± 3.28	2.3 ± 2.63	2.57
Sexual preoccupation	2.4 ± 2.44	1.2 ± 1.12	4.22
Sexual distress	1.8 ± 1.91	1.3 ± 2.15	0.91
TSCYC			
Anxiety	17.0 ± 5.96	14.61 ± 5.49	5.49*
Depression	12.8 ± 3.78	10.9 ± 6.71	6.71*
Anger	13.4 ± 4.47	12.1 ± 2.46	2.46
Posttraumatic stress-intrusion	12.6 ± 3.46	11.4 ± 2.44	2.44
Posttraumatic stress-avoidance	15.7 ± 4.85	12.6 ± 10.11	10.11 [†]
Posttraumatic stress-arousal	16.6 ± 6.85	14.0 ± 3.75	3.75
Posttraumatic stress	44.0 ± 13.72	38.0 ± 4.89	4.89*
Dissociation	11.7 ± 3.74	10.7 ± 2.56	2.56
Sexual concerns	11.6 ± 4.18	11.3 ± 2.75	0.10

Comparisons made by t-test. * $p<0.05$, [†] $p<0.01$. SD: standard deviation, TSCC: Trauma Symptom Checklist for Children, TSCYC: Trauma Symptom Checklist for Young Children

Table 3. Comparison of score of TSCYC according to sexual abuse frequency

	Once (n=23)	Twice or more (n=14)	F
	Mean ± SD	Mean ± SD	
Anxiety	13.6 ± 3.56	15.6 ± 4.50	0.95
Depression	10.7 ± 1.76	11.8 ± 3.45	3.23
Anger	11.2 ± 2.35	12.9 ± 3.39	2.76
Posttraumatic stress-intrusion	11.0 ± 2.12	11.2 ± 2.01	0.01
Posttraumatic stress-avoidance	11.9 ± 3.91	14.7 ± 6.32	4.34*
Posttraumatic stress-arousal	12.9 ± 2.85	15.1 ± 5.29	8.09 [†]
Posttraumatic stress	35.8 ± 7.85	40.5 ± 11.27	2.46
Dissociation	10.0 ± 1.43	12.7 ± 3.58	9.45 [†]
Sexual concerns	11.4 ± 2.54	11.9 ± 2.21	0.21

Comparisons made by t-test. * $p<0.05$, [†] $p<0.01$. SD: standard deviation, TSCYC: Trauma Symptom Checklist for Young Children

Table 4. Comparison of score of K-CBCL according to sexual abuse frequency

	Once (n=30)	Twice or more (n=14)	F
	Mean±SD	Mean±SD	
Social competence-social	52.2±11.33	50.3±17.29	1.41
Social competence-school	54.4±9.96	50.7±8.60	0.17
Total competence	53.9±11.38	51.4±14.09	0.18
Withdrawn	51.2±16.98	58.8±20.49	0.23
Somatic complaints	48.5±9.72	53.4±10.07	0.02
Anxious/depressed	45.8±9.89	52.4±13.55	1.82
Social problems	47.7±10.13	53.6±11.44	0.59
Thought problems	49.0±7.28	53.3±10.32	4.56*
Attention problems	46.3±9.96	54.2±10.32	0.12
Delinquent behavior	47.3±7.87	50.9±8.93	2.45
Aggressive behavior	46.0±8.02	50.7±13.95	8.92 [†]
Internalizing	46.9±9.89	54.4±11.89	0.27
Externalizing	45.7±8.79	50.5±13.77	6.55*
Total problems	45.5±10.27	52.6±14.43	2.02
Sex problems	49.0±6.35	48.3±8.68	0.41
Emotional lability	44.9±5.31	47.1±9.56	3.81

Comparisons made by t-test. *p<0.05, †p<0.01. K-CBCL: Korean-Child Behavior Checklist, SD: standard deviation

symptom were found to be significantly lower than at baseline, 29.3% of the participants continued to report clinically significant depressive symptoms. This may be considered to be consistent with the finding by Bagley and Ramsay²³⁾ that the prevalence of depression in sexual abuse victims is a lot higher compared with the controls (17% vs. 9%) even after a considerable lapse of time. The RCMAS-based anxiety scores were also observed to have been reduced in the follow-up assessment against the baseline scores, and more than half of the children (56.1%) continued to report anxiety symptoms exceeding the clinical level. Briere²⁴⁾ reported that 54% of the sexual abuse victims experienced severe chronic anxiety as a major long-term impact of child sexual abuse and found that anxiety-related symptoms were consistent long-term sequelae of sexual victimization. In the present study as well, a large proportion of the followed-up children manifested consistent depression and anxiety symptoms exceeding the clinically significant level, which indicates that depression and anxiety are major long-term sequelae in sexually victimized children.^{25,26)}

Of the K-CBCL-based problem behaviors assessed in the baseline and follow-up periods, significant improvements were observed in the follow-up scores in the scales of positive social competence, anxiety, immaturity, thought problems, attention problems, aggressive behavior, internalizing behavior problems, and externalizing behavior problems, but not in the scales withdrawal, somatic complaints, delinquent behavior, sexual problems, and emotional instability. Many studies reported that symptoms did not improve or even

were aggravated years after sexual victimization. Mannarino et al.¹¹⁾ reported that only externalizing behavior problems were found to have improved after a long-term follow-up, and Finkelhor and Berliner,¹⁰⁾ who conducted a meta-analysis of 29 studies, reported that aggressive behavior and sexual problems did not improve even after a long lapse of time. In the present study, internalizing and externalizing behavior problems were found to have only partially improved, which is in good agreement with previous studies. However, the results of this study are not to be generalized because the therapies provided were not controlled and the treatment periods were not long enough.

Significant decreases were observed in the follow-up assessments of posttraumatic stress of the TSCC and posttraumatic stress avoidance of the TSCYC but not in sexual concerns of either the TSCC or the TSCYC. The mean number of therapy sessions conducted in this study was 15.4, which is considered insufficient for ensuring improvements in sex-related problems as well as posttraumatic stress symptoms. Moreover, the majority of the intervention types involved in this study (85.7%) were those addressing posttraumatic stress symptoms, such as psychoanalytic play therapy, cognitive behavioral therapy, and child-centered psychotherapy, whereas only a small proportion was dedicated to addressing sex-related symptoms. This lack of appropriate interventions to address sex-related problems is considered to have contributed to the above study result. Lanktree and Briere²⁷⁾ followed up with sexually victimized children every three months after the first treatment and found that, while most of the post-

traumatic stress symptoms improved during the first three months, sex-related problems began to improve gradually only after six months. These findings suggest that sex-related symptoms are not satisfactorily addressed and can manifest as long-term sequelae.^{10,24,28)}

When the participants were divided into “once” and “twice+” groups according to the frequency of abuse, significantly higher scores were demonstrated by the “twice+” group in the dissociation and posttraumatic stress avoidance of the TSCYC and aggressive behavior and so on of the K-CBCL. This stands in contrast to the report by Kim et al.²⁹⁾ that the frequency of sexual abuse and symptoms are not correlated. Nor is there any consensus in the literature regarding the association between the frequency and symptomatology of sexual abuse.²⁵⁾ In general, if the offender belongs to the acquaintance or relatives/family group, the victim is more likely to be exposed to abuse repeatedly and tends to show significantly higher dissociation score, and those victimized by relatives/family members are known to experience severer psychological sequelae.²⁴⁾ However, limited by the small sample size and lack of a systematic evaluation of the frequency of abuse and abuse in a domestic setting, the related findings of the present study cannot be judged against the aforementioned general theory results.

The score differences between the baseline and follow-up assessments of the treatment and non-treatment groups were compared in each of the CDI, RCMAS, TSCC, TSCYC, and K-CBCL scales. Although no significant difference was observed, the insignificant between-group difference in the score changes between baseline and follow-up assessments alone is not sufficient to conclude that therapeutic effects are lacking. The non-treatment group usually manifests negligible sequelae from sexual abuse and is basically different from the treatment group, which underwent treatment after diagnosis with serious sequelae. Besides, therapy processes have not been standardized for lack of therapeutic guidelines. It will also have to be considered that evaluating therapeutic effects after a certain lapse of time is quite a challenge because it is not clear whether certain positive outcomes are attributable to actual therapeutic effects or spontaneous recovery. Along these lines, it can be a limitation of this study that it was not a controlled study but a retrospective observational study examining the natural course of affairs.

The following may be pointed out as limitations of this study. First, the ratio of final study participants to the entire participants targeted was very low; only 20% of the followed-up participants and parent/caregivers agreed to participate in the study, and, of them, only 40% actually participated in the study, lowering the participation rate with respect to the entire target participants to only 7–8%. This low participa-

tion rate may be explained by the nature of child sexual abuse, reflected in the typical fear of identity disclosure and avoidance of recalling traumatic events. Additionally, the procedure of questionnaire distribution and collection by post and other study design-related inconveniences may have affected the willingness to participate. Second, the victims who presented to Seoul Sunflower Children’s Center cannot represent the nationwide population of child sexual abuse victims. A multicenter research is needed as future research. Third, as mentioned above, it was not a prospectively controlled study. Given the characteristics specific to sexual abuse, it is necessary to conduct a more systematic follow-up management study, i.e., a cohort study with a larger sample size and a longer follow-up period.

Despite these limitations related to study design, this study is significant in that it confirmed that, notwithstanding overall improvements in various psychiatric symptoms, a large proportion of children continue showing them even long after the event. The study also ascertained the need to follow up with victimized children over a longer period, even children who did not show any serious symptoms immediately after the event, because there are cases in which such symptoms surface after some latent time. Furthermore, as children can show different symptoms depending on their personality features and event characteristics, it is necessary to set up customized intervention strategies and conduct follow-up management.

CONCLUSION

Of the 682 children who presented to the Seoul Sunflower Children’s Center, a sexual violence victim protection center specializing in child sexual abuse, between 2004 and 2008, 49 were recruited for this study in which baseline and follow-up psychiatric and psychological assessment results were compared, and the variables influencing child’s sequelae were analyzed. It was found that a large proportion of sexually victimized children experience depression, anxiety, post-traumatic stress symptoms, and sex-related problems even after a long time and that such symptoms can manifest in various ways depending on children’s personality features and event characteristics. Considering these factors, it is necessary to set up customized intervention strategies and to conduct a systematic follow-up management.

Conflicts of Interest

The authors have no financial conflicts of interest.

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