Emotional and behavioral problems of pre-school children with autistic spectrum disorder assessed by the child behavior checklist

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41

Emotional and Behavioral Problems of Preschool Children with Autistic Spectrum Disorder Assessed by the Child Behavior Checklist 1½-5

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51

Keywords: Pre-school Children, Autism Spectrum Disorder, Child Behavior Checklist, Typical developing

BACKGROUND: Children with Autism Spectrum Disorder (ASD) experience a significant disruption in the ability to communicate and interact socially. Early degotion is important; the earlier the child is identified with ASD, the faster the intervention can begin. The Child Behavior Checklist (CBCL) is a 20 eening tool capable of identifying various emotional and behavioral disord 46. Research data on the use of the CBCL as a screening tool for ASD are still limited in Indonesia. The prese 39 study aimed to evaluate the CBCL's ability to detect emotional and behavioral problems in pre-school children with ASD. SETHODS: A cross sectional study was conducted in Surabaya, Indonesia. Children aged 1½-5 years old diagnosed with ASD, and typically developing (TD) children were enrolled using total sampling. The CBCL/1½-5 questionnaire for parents, consisting of 99 items, was used in this research to evaluate emotional and behavioral problems. Data were analyzed with the Independent-Sample T-test to compare the CBCL/11/2-5 scale between ASD and TD children, while the proportion of gender was evaluated by a chi-square test with a 95% confidence interval. RESULTS: Fifty children were included in this research, 25 wit ASD and 25 TD. Seventy six percent (38) were male and 24% (12) were female. Six of the seven scales <mark>were significantly higher in ASD</mark> children <mark>than</mark> TD <mark>in the</mark> CBCL/1½-5. Children with ASD had higher internalization (p < 0.0001), externalization (p = 0.001), and total problem scores (p $\frac{45}{45}$ 0001) when compared to TD children. CONCLUSION: The CBCL/11/2-5 can significantly detect the emotional and behavioral problems in pre-school children with ASD.

INTRODUCTION

Autism Spectrum Disorder (ASD) is a neuro-developmental disorder that is characterized by interference in social interaction and commu 4 cation with a restricted and repetitive behavioral pattern. Many children with autism have cognitive delay according to The Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5) (1). The number of children affected by ASD has increased rapidly in the last decade and the cause of ASD is still a mystery and a matter of debate among experts. Diagnosis of children in pre-school with ASD is difficult due to a condition in which pre-school children are still greating, and ASD symptoms themselves depend on developmental level and age. Furthermore, it can be difficult to differentiate children with mild ASD from children who have other behavior problems, such as language delay, social difficulties, anxiety, attention problems, oppositional behavior, or poor impulse control (2).

One of 13 tools for which there is the strongest evidence of its ability to detect behavioral disorders in children is the Achen 11th System of Empirically Based Assessment (ASEBA) Child Behavior Checklist (CBCL). The CBCL, which is widely and often used in clinical research and practice to identify various disorders, has good reliability and validity. This tool is divided into three major 33 les, consisting of internalization, externalization, and total problem. Internalization is determined by emotionally reactive, anxiety/depression, somatic complaints, and withdrawn syndrome scales. Meanwhile, externalization is 44 racterized by the total scores for the Attention Problem 3 and Aggressive Behaviors syndrome scales. The total p50 lems scale is derived from the sum of all 99 items on the Child Behavior Checklist for ages of 1½ to 5 years old (CBCL/1½-5). The CBCL is known to have excellent psychometric properties and large studies have

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E170

EMOTIONAL AND BEHAVIORAL PROBLEMS OF PRE-SCHOOL CHILDREN WITH ASD

demonstrated its reliability and validity both in clinical and non-clinical practice (3,4,5,6,7,8). [37] vever, research data on the use of CBCL as a screening tool in ASD are still limited in Indonesia. Therefore, this study aims to investigate the use of CBCL in pre-school children for the early detection of prominent symptoms in children with ASD.

8

MATERIALS AND METHODS

Methods

A 36 ss sectional study was conducted in Surabaya, from August 1 to December 30, 2015. The sample of this study consisted of 25 children diagnosed with ASD, and 25 typically developing (TD) children as the control group. The sample size was based on total sampling. Children enrolled in the study were those who met the following criteria: aged between 1.5 and 5 years old and having parents or guardians who agreed to sign for informed consent. ASD diagnosis was made by a pediatrician and a psychiatrist confirmed by the DSM-5 (1). The researcher interviewed the parents/caregivers and filled in a CBCL/1½-5 for the parents after they were informed about the study and gave their written consent. Typically developing children were defined as children with a normal development condition in which there is absence of both chief complaints and abnormal clinical findings about children development.

Data were analyzed by Independent-Sample T-test to compare the CBCL/1½-5 between childre 25 iagnosed with ASD and TD children, while the proportion of gender was evaluated by a 24 square test with a 95% confidence interval. Statistical data analysis was performed using SPSS 17.0. This study was approved by the Ethics Committee Dr. Soetomo General Hospital, Surabaya, Indonesia.

Materials

15

The CBCL/1½-5 for parents, as a component of the CBCL/1½-5 is a widely used questionnaire to assess behavioral and emotional problems, consisting (349) items and summarized in seven scales, such as emotionally reactive, anxiety, somatic complain, 43 ial withdrawal, attention problems, aggressive behavior 2 and sleep problems. The assessment of each item is based on the child's symptoms over the past two m9 ths on a three-point scale: 0 = not true, 1 = somewhat or sometimes true and 2 = very true or often true. Achenbach and Rescorla 49 000) described the Internalization scale as being comprised by the reactive emotion, anxiety/depression, somatic con 11 ints, and social withdrawals syndrome scales. The externalization scale was determined by the scores for the attention problems and aggressive behaviors syndrome scales. The Total Problems scale is derived from the sum of all 99 items on the CBCL/1½-5 (2).

RESULTS

(38) of the children were male and 24% (12) were female (Table I). There was no difference in age temperature (28) of the children were male and 24% (12) were female (Table I). There was no difference in age temperature (28) of the children were male and 24% (12) were female (Table I). There was no difference in age temperature (28) een both groups. There was an observed significant occurrence of ASD in male compared to female children. In this study, the prevalence of ASD between male and female is 24:1.

Table I. Subject Characteristics

Tubic it Subject Characteristics			
Participants	Children with ASD	TD children	P
	(N=25)	(N=25)	
Age (Months) (Mean ±SD)	48±11.9	48±11.5	NS
Gender			
Male (%)	24 (96.0)	14 (56.0)	*
18male (%)	1 (4.0)	11 (44.0)	

P < 0.05 (Independent Two-sample t test, Chi-square test)

NS: Non-Significant

22

In this study, the CBCL/1½-5 scale showed significant differences in almost every aspect (p < 0.05). However, ther 32 no significant difference between both groups on the anxiety and depression scale. The total problem scale in children with ASD is significantly higher compared to TD children, recorded as high as three times that of the TD counterpart. Among all componer 12 social withdrawal, attention problems, and emotional reactivity were exhibited as the top three highest scores in children with ASD.

31

Table II. Comparison of CB 48 scale in children with ASD and TD children aged 1.5-5 years

	Children with ASD (N=25) Mean±SD	TD children (N=25) Mean±SD	P
Internalization	22.4±8.86	6.3±5.66	*
Reactive Emotion	5.6±3.6	1.6±1.4	*
Anxious/Depression	2.8±2.8	2.2±2.4	NS
Somatic complaints	2.9±2.1	1.1±1.6	*
Social Withdrawals	11.1±3.9	1.3±1.6	*
Externalization	22.7±9.03	8.4±7.26	*
Attention problems	5.8±2.3	1.1±1.5	*
Aggressive behavior	16.9±7.8	7.3±5.9	*
Sleep problems	4.4±2.0	1.8±1.5	*
Total problem score	49.6±15.9	16.6±13.2	*

P<0.05 (Independent Two-sample t test, Mann-Whitney U test) NS: Non-Significant

DISCUSSION

The results indicate that six of the seven minor scales of the CBCL were significant 29 igher in children with ASD than TD, consisting of reactive emotional, somatic complaints, social withdrawal, sleep problems, attention problems, and aggressive behavior. Only the anxiety/depression scale showed no significant dif 42 nce. This result may be due to the difficulty in determining 3 xiety/depression in children under 5 years old. These results are consistent with previous studies that reported that children with ASD had significantly higher scores on the same six minor CBCL scales (9,10). However, another study found that all CBCL scales were significantly higher in preschool children with ASD than TD children (11). A sligh 47 lifterent result was obtained by Sikora et al. who concluded that only the social withdrawal scale was better at differentiating children with ASD than children without ASD (12). Furthermore, Rescorla in his study observed that when eight prescriptive CBCL preschool profiles showing a variety of psychiatric disorders and development were included in the cluster analysis, children with ASD could be distinguished from children with other behavioral disorders (13).

Our study also revealed that the 17 ghest mean scores on the CBCL scales were on the scale of aggressive behavior, withdrawn, and attention problems. These results are 16 lar to previous studies in children with ASD in the United States, who reported that the CBCL scale with the highest percentage of clinically significant scores was the scale of withdrawn, attention problems, and aggressive behavior (14). The resultoff this study reveal that the internalization, and total problem scores were significantly higher in children with ASD than in TD children. These findings are consistent 10 h previous studies that reported significantly higher emotional, behavioral problems and total problem scores in children with ASD than TD (6,10,11,15,16).

The scaling of thought problems in that CBCL contains many items related to repetitive or unusual and bizarre behavior that show ASD children to have great difficulty in dealing with others. This makes them withdraw from social interaction (17).

In this study, 38 children (76%) were male and 12 (24%) were female, and several studies have shown that the male to female ratio in ASD was most commonl 27 eported as 4:1. A meta-analysis investigating gender differences in ASD stroptoms, showed there was little difference in the severity of symptoms between boys and girls. Boys and girls with ASD showed similar symptom severity in communication and social behavior, but girls showed less interest, behavior limitations, and stereotypes than boys. (18,19). Kristensen demonstrated that the total problems score of CBCL/1½-5, internalization, and externalizing was not significantly different among boys and girls (8).

Overall, our results are very similar to previous studies in the United States, Europe, and Asia. In summary, the CBCL is a good screening tool, but it may be difficult to make a diagnosis of ASD using CBCL alone. Limitations in this study, both gender and socio-economic, were non-adjusted between groups. Only a few cases of ASD could be found because of low society knowledge regarding child behavioral problems.

CONCLUSION

EMOTIONAL AND BEHAVIORAL PROBLEMS OF PRE-SCHOOL CHILDREN WITH ASD

21

The CBCL/1½-5 can significantly detect the emotional and behavioral problems in pre-school children with

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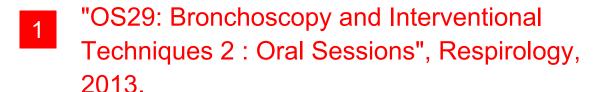
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