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Section: General**Manuscript Type:** Research Article**Manuscript Full Title:** METABOLIC CONTROL AND BEHAVIORAL PROBLEMS AMONG CHILDREN WITH TYPE 1 DIABETES MELLITUS DURING COVID-19 PANDEMIC;**Revision:** 0**Abstract [Required]:**

Background: Children with Type-1 Diabetes Mellitus (T1DM) often experience emotional and behavioral problems such as anxiety and depression. ~~Social restrictions during the COVID-19 pandemic caused social restrictions~~ and limited access to healthcare facilities as it could worsen metabolic control. Poor metabolic control may lead to increased risk of behavioural problems. Objectives: This study ~~aims to analyze the~~ behavioral problems and metabolic control among children with T1DM during the COVID-19 pandemic. Methods: Cross-sectional study was conducted in January-August 2021 in the Endocrine Outpatient Clinic of General Hospital Dr. Soetomo Surabaya. Type-1-DM children who fulfilled the inclusion criteria were divided into two groups based on metabolic control, including ~~good (HbA1C \leq 8) and poor (HbA1C $>$ 8)~~. The Pediatric Symptom Checklist-17 (PSC-17) was used as a screening tool with the domain Internalizing Problems (IP), Externalizing Problems (EP), and Attention Problems (AP). The data were analyzed using Pearson and Spearman test with Statistical Product and Service Solution (SPSS) version 18.0. Results: This study consisted of 27 subjects with 17 boys and 10 girls, aged 13.63 ± 3.85 years old. From all subjects, only 8 subjects had good metabolic control during COVID-19 pandemic. ~~There are 33.3% of participants had behavioral problems (14.8% IP; 18.5% EP)~~. The frequency of IP and EP in the good metabolic control group was 12.5%; 37.5%, while in the poor was 15.8%; 10.5%. There was no significant difference between the PSC-17 score and HbA1C in IP and EP groups. Conclusions: The frequency of EP was higher in good metabolic control, and the frequency of IP was higher among poor metabolic control.

Keywords: Diabetes,Children,Behavioral problems,Metabolic control**Conflict of Interests:** There is no conflict of interest in this study.**Ethical Approval:** 0246/KEPK/VIII/2021**Funding/Support:** During this study, no financial or spiritual support was received from any party that could affect the results of this study.**Data Reproducibility:** The dataset presented in the study is available on request from the corresponding author during submission or after publication. The data are not publicly

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METABOLIC CONTROL AND BEHAVIORAL PROBLEMS AMONG CHILDREN WITH TYPE 1 DIABETES MELLITUS DURING COVID-19 PANDEMIC

ABSTRACT

Background: Children with Type-1 Diabetes Mellitus (T1DM) often experience emotional and behavioral problems such as anxiety and depression. Social restrictions during the COVID-19 pandemic caused social restrictions and limited access to healthcare facilities as it could worsen metabolic control. Poor metabolic control may lead to increased risk of behavioural problems.

Objectives: This study aims to analyze the behavioral problems and metabolic control among children with T1DM during the COVID-19 pandemic.

Methods: ~~Cross-sectional study was conducted in January-August 2021~~ in the Endocrine Outpatient Clinic of General Hospital Dr. Soetomo Surabaya. ~~Type 1 DM children~~ who fulfilled the inclusion criteria were divided into two groups based on metabolic control, including good ($HbA1C \leq 8$) and poor ($HbA1C > 8$). The Pediatric Symptom Checklist-17 (PSC-17) was used as a screening tool with the domain Internalizing Problems (IP), Externalizing Problems (EP), and Attention Problems (AP). The data were analyzed using Pearson and Spearman test with *Statistical Product and Service Solution (SPSS) version 18.0*.

Results: This study consisted of 27 subjects with 17 boys and 10 girls, aged 13.63 ± 3.85 years old. From all subjects, only 8 subjects had good metabolic control during COVID-19 pandemic. There are 33.3% of participants had behavioral problems (14.8% IP; 18.5% EP). The frequency of IP and EP in the good metabolic control group was 12.5%; 37.5%, while in the poor was 15.8%; 10.5%. There was no significant difference between the PSC-17 score and HbA1C in IP and EP groups.

Conclusions: The frequency of EP was higher in good metabolic control, and the frequency of IP was higher among poor metabolic control.

Keywords: Metabolic control, Behavioral problems, Children, Diabetes

BACKGROUND

Children with diabetes mellitus frequently had emotional and behavioral problems (1,2). ~~There was an increased rate of behavioral problems such as anxiety problems (1) and depression (3) in a group of T1DM children compared to a matched control.~~ Globally, the government imposed social restrictions during the COVID-19 pandemic. On the other hand, this policy also limits health facilities' access, creating fear of going to hospitals in patients' families that may influence the metabolic control in T1DM patients (4). Poor metabolic control is a risk factor for behavioral problems and increased risk for complications (5-7) and mortality (8). The impacts of social restrictions during the COVID-19 pandemic towards behavioural problems and metabolic control in T1DM children are still controversial.

~~Globally, the incidence of T1DM is increasing, and it is anticipated that over 90,000 children are diagnosed with T1DM annually (9). In 2018, there were 1,220 children and adolescents with T1DM reported in Indonesia (10). During 2000-2010, T1DM incidence in Indonesia increased sevenfold from 3.88 to 28.19 per 100 million population (11).~~

Type 1 diabetes mellitus patients require regular insulin injections and continuous blood sugar monitoring during life. The ~~long-life treatment may~~ cause negative emotions induced maladaptive behavior and lead to behavioral and functional problems and risk for suicide attempts (1,12-15). However, poor metabolic control indicates poor compliance, so it is a risk factor for behavioral disorders (16). The correlation between behavioral problems towards

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50 metabolic control is still controversial (17,18). Therefore, it is necessary to analyze the behavioral
51 problems and metabolic control during the COVID-19 pandemic.

52

53 METHODS

54 This research was a cross-sectional study conducted in the endocrine outpatient clinic
55 of General Hospital Dr. Soetomo, Surabaya, from January to August 2021. The ethics board of
56 General Hospital Dr. Soetomo Surabaya issued ethical approval number 0246/KEPK/VIII/2021
57 and performed under the Helsinki Declaration. The inclusion criteria were T1DM patients aged
58 4-17 years, routinely controlled at Pediatric Endocrinology Outpatient Clinic, and parents
59 assigned informed consent for participation. Patients who had life-threatening conditions and
60 were hospitalized in Pediatric Intensive Care Unit were excluded. Patient's age, gender, and
61 level of HbA1C were evaluated. Behavioral problems were assessed using an Indonesian
62 version of the *Pediatric Symptom Checklist 17* (PSC-17) questionnaire by the subject's parents.
63 The PSC-17 questionnaire was sent via google-form and guided by the research team via phone
64 or zoom meetings. Inform consent was sent by short messages to the subject's parents, then
65 printed out, signed, and returned to the author.

66 PSC-17 is a 17-question short screening questionnaire that helps identify and assess
67 changes in children's emotional and behavioral problems. The Indonesian version of this
68 questionnaire has high reliability ($\alpha=0.821$) (19). Each answer will be given a score (0-2)
69 according to the following question to make a total score, suspect behavioral problems if the
70 sum of internalizing values ≥ 5 , externalizing ≥ 7 , attention values ≥ 7 and if the total score of
71 PSC-17 was ≥ 15 (19,20).

72 In this study, T1DM patients were categorized into two groups, patients with good
73 metabolic control ($HbA1C > 8$) and poor metabolic control ($HbA1C \leq 8$) (18,19). Glycosylated
74 hemoglobin (HbA1C) reflects the average level of glucose for the last 5-8 weeks and indicators
75 of metabolic control in diabetic patients (ADA).

76 Statistical analysis

77 Collected data were analyzed using *Statistical Product and Service Solution (SPSS) version*
78 *18.0*. Descriptive data were presented as mean \pm SD, while the number of cases and percentages
79 were shown for categorical data. Categorical variables were calculated using Pearson or
80 Spearman analysis based on a normality test with a 95% confidence level and P-value ≤ 0.05 .

81

82 RESULTS

83 Twenty-seven children with T1DM consist of 17 boys and 10 girls, 13.63 ± 3.85 years
84 old. The baseline characteristics of T1DM patients are presented in Table 1. The average
85 duration of illness was 5.41 years, and the average HbA1c in our study was $10.29 \pm 2.39\%$. The
86 average HbA1C level among Asian children was 9.1% (21). The average of C-peptide in our
87 study was 0.01 ng/ml, compared to the normal limits of 0.9-1.8 ng/ml. Specifically, a c-peptide
88 level below 0.5 ng/ml is related to T1DM (22)

89 Nine out of 27 participants had abnormal PSC-17 scores (≥ 15), and 18 out of 27
90 participants were within the normal score range (< 15). The average level of HbA1c from the
91 abnormal score group of PSC-17 was $9.43 \pm 3.52\%$, while in the normal score group of PSC-
92 17, the level of HbA1c was $10.4 \pm 2.31\%$. There is no association between behavioral problems
93 with duration of illness ($p = 0.91$) and age ($p = 0.37$).

94 Table 2 shows the correlation between behavioral problems and metabolic control. Four
95 out of 27 participants (14.8%) have internalizing problems, five out of 27 participants (18.5%)
96 have externalizing problems, and none have attention problems. A comparison between the
97 PSC-17 scores and HbA1C level showed no significant difference in internalizing or
98 externalizing behavioral problems ($p=1.00$ and $p=0.14$).

99

100 DISCUSSION

101 This study showed that during ~~the COVID-19 pandemic~~, 33.3% of children with T1DM
102 had behavioral problems (externalizing problems 18.5% and internalizing problems 14.8%).
103 This result is in accordance with the previous study in 2009, before the COVID-19 pandemic,
104 where the rate of behavioral problems was assessed in T1DM patients aged 17-19 years; the
105 rate of behavioral problems was 33.3% of the participant, more than three times higher than the
106 control group (9.7%) (18). A recent study found no changes in psychosocial function such as
107 anxiety, depressive symptoms, anger, or behavioral difficulties between the diabetic group (n
108 = 132) and the healthy group (n = 131) over three years (3). Yet, the diabetic group showed a
109 greater decline in social acceptance and a higher rise in ~~disturbed eating behavior~~. However,
110 the study ~~about behavioral problems in children with~~ T1DM during COVID-19 Pandemic is
111 limited.

112 Several studies have found that internalizing problems such as anxiety (23) and
113 depressive mood (23,24) were significantly higher in T1DM groups compared to the control
114 groups (18). This is ~~contrary to our study's findings~~, suggesting that out of 27 participants, the
115 most common behavioral problems were externalizing. Among participants with good
116 metabolic control, the frequency of externalizing problems was higher than internalizing
117 problems. It was shown that during COVID-19 pandemic, children T1DM with good metabolic
118 control ~~tended to have externalizing problems~~. This result contradicts the previous study that
119 stated externalizing behavioral problems were found in poorer glycemic control (25). The
120 presence of externalizing behavioral problems is associated with four domains: the aspect of
121 the child, sociocultural factors, parenting and caregiving experiences and peer-group
122 experiences (26). And ~~children's peer experiences~~ in school are essential factors in the
123 development of the externalizing problem. Thus, during the COVID-19 pandemic, school
124 activities were limited, children's peer experiences were not conducted, limited access to
125 medical services, and people had to stay home; all of these reasons seemed to be associated
126 with the presence of externalizing problems in this study.

127 A longitudinal study by Butwicka et al. stated that children with T1DM had a ~~3x~~ greater
128 risk factor for behavioral problems than healthy children, especially with families with a history
129 of psychiatric disorders. It was also observed that children T1DM with behavioral problems
130 had suicide attempts 1.7x higher than children with T1DM who did not have comorbid (HR
131 1.7; 95%; CI 1.4-2.0) (1). The study by Bernstein et al. stated that the prevalence of mental
132 disorders in children with T1DM was as follows: 31.9% had anxiety disorders, 19.1% had
133 behavioral problems, and 14.2% had mood disorders in the adolescent population (27). Several
134 other studies have identified a relationship between T1DM and various psychosocial
135 conditions, including anxiety disorders, eating disorders, behavioral disorders and mood
136 disorders, and depression (27). These behavioral problems were common in T1DM children
137 and negatively impacted disease management and metabolic control.

138 Another large population study based on Danish National Patient Register (NPR) found
139 the highest risk of psychiatric comorbidity among T1DM children diagnosed at age 10 to 14
140 years and with five years duration of diabetes (28,29). This study also suggests that T1DM
141 children with behavioral disorders had ~~higher mean age than children with~~ non-behavioral
142 disorders. Several studies found that behavioral problems (25,29,30) and higher stress levels
143 (30,31) affect the course of the illness and the level of metabolic control. Thus, several studies
144 did not find a significant correlation between the level of ~~metabolic control~~ and behavioral
145 problems (18,32). In our study, we did not find any significant association between the level of
146 ~~control metabolic and~~ behavioral problems, nor the association between behavioral problems
147 with duration of illness and age.

148 Our study found that during the COVID-19 pandemic, the mean HbA1C value was
149 $10.29 \pm 2,39\%$. The previous study in Dr. Soetomo showed that during the first year of the

150 COVID-19 pandemic, the mean HbA1c was $10.06 \pm 2.49\%$, while pre-lockdown was $9.20 \pm$
151 1.86% (14). It was shown that during COVID-19, the metabolic control among children with
152 T1DM worsened. The worsening of metabolic control due to the condition during the
153 lockdown, such as the caregivers being afraid to take their children to the hospital, limited
154 transportation, and limited health care. This reason negatively impacts metabolic control in
155 patients with diabetes, especially T1DM, who are on insulin therapy. This is in accordance with
156 the previous study during the COVID-19 pandemic that reported the impact on glycemic control
157 among 52 patients with T1DM was 19 (36.5%) had hyperglycemic episodes; among them, 4
158 (7.7%) landed into DKA (Diabetic Ketoacidosis). Eight out of 19 patients had hyperglycemia
159 were not getting insulin injections during the lockdown due to nonavailability (5). Mean
160 HbA1C of pre-lockdown and lockdown phases was $8.8 \pm 1.3\%$ and $10 \pm 1.5\%$ respectively, and
161 the difference was statistically significant ($p < 0.001$) (5). But another study in Italy revealed that
162 metabolic control of adolescents with T1DM did not worsen during the restrictions due to
163 COVID-19 pandemics, and improved in those who continued physical activity during the
164 quarantine (33).

165 Another study that estimated the effects of the COVID-19 pandemic on the treatment
166 of 7000 T1DM children from Sweden's national database (SWEDIABKIDS) found that the
167 proportion of patients with good metabolic control has remained the same in 2019 and 2020
168 (34). These all because Sweden has an active treatment of T1DM with low mean HbA1C on a
169 national level compared to other countries, including telemedicine treatment as the alternative
170 combination to regular visits when physical distancing during the pandemic was needed (33).
171 But in this study, telemedicine was not a routine alternative treatment to preserve the quality of
172 care for T1DM. Therefore, there is a tendency for T1DM patients to have higher metabolic
173 control during the COVID-19 Pandemic.

174 This study's limitations were no measured behavioral problems during the pre-lockdown
175 phase. We cannot compare behavioral problems during the pre-lockdown and lockdown phases.
176 However, we believe this study is valuable for further research and caring for patients with
177 T1DM.

178 CONCLUSION

179 During the COVID-19 pandemic among children with T1DM, 33.3% had behavioral
180 problems. It was found that the frequency of EP was higher among children with good
181 metabolic control, and the frequency of IP was higher among children with poor metabolic
182 control. There was worsened metabolic control but we found no correlation between behavioral
183 problems and metabolic control.

184 FUNDING/SUPPORT

185 During this study, no financial or spiritual support was received from any party that
186 could affect the results of this study.

187 DECLARATION OF INTERESTS

188 There is no conflict of interest in this study.

189 ACKNOWLEDGEMENTS

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191 Soetomo for the support.

192

193 **FIGURES AND TABLES**

194 Table 1. Demographic Characteristics of patients with T1DM

Characteristic	N (%)	Mean \pm SD
Age (Years old):	27 (100)	13.63 \pm 3.85
<8	3 (11.1)	-
8-13	8 (29.6)	-
\geq 13	16 (59.3)	-
Gender:		
Boy	17 (63)	-
Girl	10 (37)	-
Duration of illness (year)	27 (100)	5.41 \pm 3.62
HbA1C (%)	27 (100)	10.29 \pm 2.39
Caregivers' education:		
Elementary	0	-
Junior high school	5 (18.5)	-
Senior high school	16 (59.3)	-
High school	6 (22.2)	-
PSC-17 Score	27 (100)	8.70 (\pm 4.75)
<15	18 (66.7)	-
\geq 15	9 (33.3)	-

195 SD, Standard Deviation; HbA1C, Haemoglobin A1C; PSC-17, Pediatric Symptom Checklist-
 196 17; T1DM, Type 1 Diabetes Mellitus

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197 Table 2. Correlation between behavioral problems and metabolic control

Behavioral Problems (Psc-17 Score)		HbA1C Level		P-value
		≤8 (n=8)	>8 (n=19)	
Internalizing	≥5	1/8(12.5%)	3/19(25.8%)	1.00
	<5	7/8(87.5%)	16/19(84.2%)	
Externalizing	≥7	3/8(37.5%)	2/19(10.5%)	0.14
	<7	5/8(62.5%)	17/19(89.5%)	

198 HbA1C, Haemoglobin A1C; PSC-17, Pediatric Symptom Checklist 17

199

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- 292 34 Ludvigsson J. Effect of COVID-19 pandemic on treatment of Type 1 diabetes in
293 children. *Acta Paediatr* 2021;110(3):933–934
- 294
295



UNIT KERJA ENDOKRIN ANAK <endokrin.ilmiah@gmail.com>

Fwd: ID 131806, rev [1] is Entered to Review Process!

1 pesan

nur rochmah <nur-r@fk.unair.ac.id>

6 Agustus 2023 pukul 12.53

Kepada: Unit Kerja Endokrin Anak <endokrin.ilmiah@gmail.com>

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Dari: <no-reply@brieflands.com>

Date: Sab, 29 Okt 2022 18.58

Subject: ID 131806, rev [1] is Entered to Review Process!

To: <nur-r@fk.unair.ac.id>

- **Journal:** [Journal of Comprehensive Pediatrics](#)
- **Manuscript ID:** 131806
- **Manuscript Title:** BEHAVIORAL PROBLEMS AMONG TYPE 1 DIABETES MELLITUS CHILDREN WITH GOOD AND POOR METABOLIC CONTROL DURING COVID-19 PANDEMIC
- **Revision:** [1]

Dear Dr. Nur Rochmah,

We want to inform you that your manuscript has been screened successfully and has entered the review process. You can track your submission through the journal website from here on out. In case of any further questions, be free to contact us via our support portal.

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Reviewer 1:

dear author.

the reviewed DOC file you sent HAS NOT CHANGED according to previous comments. 35 comments sent you previously in reviewed PDF file. please check the attached PDF file again and correct indicated parts.

with thanks.

Thank you for your review. We already revised our manuscript based on your suggestion. We made changes in our background, methods, results, discussion, and conclusion.

Reviewer 2:

Dear editor in chief,

I read the revisions and I appreciate it.

With regards,

Setila Dalili

Reviewer 3:

Comments to the Author:

I reviewed this manuscript, again.

The great effort in improving the manuscript is highly appreciated. However, there are rooms for further improvement which the authors should consider. The following points are of concern and minor suggestions are marked in the following. Several important questions were asked, especially in the method & discussion section, but no precise answer was given. pl answer point to point and marked those, clearly.

Abstract:

1- This section needs revision. the frequency of IP, EP and AP was reported in two study groups (good and poor) and but the statistical differences of variables is not analyzed.

Thank you for the comment. We already made changes in the abstract.

3- Conclusion was not justified. According to finding of your study, "There was no significant difference of behavior problems between the good and poor metabolic control groups". You said "The frequency of EP was higher among children with good metabolic control, and the frequency of IP was higher among children with poor metabolic control." But I did not see statistical analysis and p value about it. Pl firstly analysis these variable and if it was significant then express in conclusions (in abstract and in main text)

Thank you for the comment. We already made changes on our conclusion section in the abstract and main text.

Background:

4- Many studies have been done in this regard. Why the authors decided to conduct this study again? Which new question does the findings of this study answer? What is novelty of this study? PI mentions these tips, point to point.

Thank you for the comment. We already adding the answer on our background. The novelty of this manuscript was this research was done during the COVID-19 pandemic that influence many aspects of life, including the behavioural of T1DM children. And studies about behavioural problems among T1DM children was still limited.

5- What is the role of COVID19?

We already mention in the background section. Thank you.

Methods:

6- Number of eligible participants should be expressed in this section.

Thank you for the comment. We already adding number of eligible subjects on paragraph 2 in the methods section.

7- Inclusion and exclusion criteria were incomplete. PI organizes those.

Thank you for the comment. We already completing the inclusion and exclusion criteria on paragraph 2 in the methods section.

8- How did you calculate the sample size? Which formula? Explain it. What was power of study? It seem that the number of participants were not enough.

Thank you for the comment. We already revised our manuscript regarding these issues on paragraph 2 in the methods section.

9- There are many confounding factors in the studies about "behavioral problems" such as family income, parents' history of emotional disorders, history of psychological drugs consumption and any factors that compromised the behavioral status and so on. How did you include the confounding factors in the results? Clearly define all potential confounders and effect modifiers. Give diagnostic criteria, if applicable.

Thank you for the comment. Most of the subjects was using assurance from the government, therefore we generalize there is no cofounding factors regarding the family income. Subjects also had a regular drug test on their school.

Results:

10- Table 2 was incomplete. The 95% confidence level with lower and upper limits was not seen. PI completes it.

Thank you for the comment. We already completing table 2 based on your suggestion.

Discussion:

11- The recommendation was not seen. The recommendation should be mentioned in the last paragraph of discussion and in last paragraph any gap, question, hypothesis or comment should be declared (not utilize separate subheading). In recommendation part, it is suggested to express that use the guidelines in this situation. For example the authors note: [several symptoms and signs are used to proper the behavioral problems diagnosis. In addition, physicians should be known that the lack of attention to these symptoms and signs it lead to adverse events such as suicide. The best way to proper diagnosis about this issue is using guidelines and behavioral check lists. Furthermore, practical guidelines and check lists may be helping to physician's insight on correct management, as in the accurate antibiotic using]. You should be mentioned to this valuable and new article about using check list and guide lines in your references: [A Survey of Pediatricians' Views and Practices Regarding Parents' Request for Prescribing Antibiotics: A Qualitative Study. Arch Pediatr Infect Dis. 2019 July; 7(3):e91217. doi: 10.5812/pedinfect.91217.]

Thank you for the comment. We already adding our recommendation in last paragraph of discussion.

Conclusion:

12- You said "The frequency of EP was higher among children with good metabolic control, and the frequency of IP was higher among children with poor metabolic control." But I did not see statistical analysis and p value about it. Pl firstly analysis these variable and if it was significant then express in the conclusion (in abstract and in main text).

Thank you for the comment. We already made changes on our conclusion section in the abstract and main text.

References:

13- The references no 15 & 21 were incomplete.

Thank you for the comment. We already made change the references



UNIT KERJA ENDOKRIN ANAK <endokrin.ilmiah@gmail.com>

Fwd: ACTION: ID 131806 Needs Major Revision; rev [1]

1 pesan

nur rochmah <nur-r@fk.unair.ac.id>

6 Agustus 2023 pukul 12.52

Kepada: Unit Kerja Endokrin Anak <endokrin.ilmiah@gmail.com>

----- Forwarded message -----

Dari: <no-reply@brieflands.com>

Date: Rab, 9 Nov 2022 17.54

Subject: ACTION: ID 131806 Needs Major Revision; rev [1]

To: <nur-r@fk.unair.ac.id>

- **Journal:** [Journal of Comprehensive Pediatrics](#)
- **Manuscript ID:** 131806
- **Manuscript Title:** BEHAVIORAL PROBLEMS AMONG TYPE 1 DIABETES MELLITUS CHILDREN WITH GOOD AND POOR METABOLIC CONTROL DURING COVID-19 PANDEMIC
- **Revision:** [1]

Dear Dr. Nur Rochmah,

Thanks for submitting your valuable manuscript to the journal. As a result of this, we would like to inform you that the review of your manuscript is finished, and based on the editorial decision, you need to do a **"Major Revision"** on your manuscript. Even though this manuscript has enough quality to enter the review process, it needs some significant **(major) revisions** in some points of view.

How to Submit Revision?

Below you may find those comments. Please read them and answer them one by one. The **corresponding author** needs to prepare replies as below:

1. In a word file, reply to all comments one by one (reply to reviewer)
2. In the word file of your manuscript, reply and apply all comments as **marked or highlighted lines/paragraphs**.

Instruction <https://brieflands.com/journals/journal-of-comprehensive-pediatrics/knowledgebase/display/resubmit-manuscript.html>

> Reviewers' Comments:*Reviewer 1:**dear author.**the reviewed DOC file you sent HAS NOT CHANGED according to previous comments. 35 comments sent you previously in reviewed PDF file. please check the attached PDF file again and correct indicated parts.**with thanks**Reviewer 2:**Dear editor in chief,*

I read the revisions and I appreciate it.

With regards,

Setila Dalili

Reviewer 3:

Comments to the Author:

I reviewed this manuscript, again.

The great effort in improving the manuscript is highly appreciated. However, there are rooms for further improvement which the authors should consider. The following points are of concern and minor suggestions are marked in the following. Several important questions were asked, especially in the method & discussion section, but no precise answer was given. pl answer point to point and marked those, clearly.

Abstract:

1- This section needs revision. the frequency of IP, EP and AP was reported in two study groups (good and poor) and but the statistical differences of variables is not analyzed.

3- Conclusion was not justified. According to finding of your study, "There was no significant difference of behavior problems between the good and poor metabolic control groups". You said "The frequency of EP was higher among children with good metabolic control, and the frequency of IP was higher among children with poor metabolic control." But I did not see statistical analysis and p value about it. Pl firstly analysis these variable and if it was significant then express in conclusions (in abstract and in main text)

Background:

4- Many studies have been done in this regard. Why the authors decided to conduct this study again? Which new question does the findings of this study answer? What is novelty of this study? Pl mentions these tips, point to point.

5- What is the role of COVID19?

Methods:

6- Number of eligible participants should be expressed in this section.

7- Inclusion and exclusion criteria were incomplete. Pl organizes those.

8- How did you calculate the sample size? Which formula? Explain it. What was power of study? It seem that the number of participants were not enough.

9- There are many confounding factors in the studies about "behavioral problems" such as family income, parents' history of emotional disorders, history of psychological drugs consumption and any factors that compromised the behavioral status and so on. How did you include the confounding factors in the results? Clearly define all potential confounders and effect modifiers. Give diagnostic criteria, if applicable.

Results:

10- Table 2 was incomplete. The 95% confidence level with lower and upper limits was not seen. Pl completes it.

Discussion:

11- The recommendation was not seen. The recommendation should be mentioned in the last paragraph of discussion and in last paragraph any gap, question, hypothesis or comment should be declared (not utilize separate subheading). In recommendation part, it is suggested to express that use the guidelines in this situation. For example the authors note: [several symptoms and signs are used to proper the behavioral problems diagnosis. In addition, physicians should be known that the lack of attention to these symptoms and signs it lead to adverse events such as suicide. The best way to proper diagnosis about this issue is using guidelines and behavioral check lists. Furthermore, practical guidelines and check lists may be helping to physician's insight on correct management, as in the accurate antibiotic using]. You should be mentioned to this valuable and new article about using check list and guide lines in your references: [A Survey of Pediatricians' Views and Practices Regarding Parents' Request for Prescribing Antibiotics: A Qualitative Study. Arch Pediatr Infect Dis. 2019 July; 7(3):e91217. doi: 10.5812/pedinfec.91217.]

Conclusion:

12- You said "The frequency of EP was higher among children with good metabolic control, and the frequency of IP was higher among children with poor metabolic control." But I did not see statistical analysis and p value about it. Pl firstly analysis these variable and if it was significant then express in the conclusion (in abstract and in main text)

References:

13- The references no 15 & 21 were incomplete.

thank you

> Associate Editor's Comments:

Associate Editor 1:

Dear EIC,

Reviewers have not satisfied by revised file. Manuscript still needs revision.

> EIC Decision:

*Dear Author,
Your manuscript still has errors. Please reply to comments and revise the manuscript accurately.*

> Uploaded Files by Reviewers/Associate Editor/ or EIC: Below, you can find the list of files attached by reviewers or associate editor or EIC during the review process (if any).

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UNIT KERJA ENDOKRIN ANAK <endokrin.ilmiah@gmail.com>

Fwd: ACTION: ID 131806 Needs Major Revision; rev [0]

1 pesan

nur rochmah <nur-r@fk.unair.ac.id>

6 Agustus 2023 pukul 12.53

Kepada: Unit Kerja Endokrin Anak <endokrin.ilmiah@gmail.com>

----- Forwarded message -----

Dari: <no-reply@brieflands.com>

Date: Rab, 19 Okt 2022 21.34

Subject: ACTION: ID 131806 Needs Major Revision; rev [0]

To: <nur-r@fk.unair.ac.id>

- **Journal:** [Journal of Comprehensive Pediatrics](#)
- **Manuscript ID:** 131806
- **Manuscript Title:** METABOLIC CONTROL AND BEHAVIORAL PROBLEMS AMONG CHILDREN WITH TYPE 1 DIABETES MELLITUS DURING COVID-19 PANDEMIC
- **Revision:** [0]

Dear Dr. Nur Rochmah,

Thanks for submitting your valuable manuscript to the journal. As a result of this, we would like to inform you that the review of your manuscript is finished, and based on the editorial decision, you need to do a **"Major Revision"** on your manuscript. Even though this manuscript has enough quality to enter the review process, it needs some significant **(major) revisions** in some points of view.

How to Submit Revision?

Below you may find those comments. Please read them and answer them one by one. The **corresponding author** needs to prepare replies as below:

1. In a word file, reply to all comments one by one (reply to reviewer)
2. In the word file of your manuscript, reply and apply all comments as **marked or highlighted lines/paragraphs**.

Instruction <https://brieflands.com/journals/journal-of-comprehensive-pediatrics/knowledgebase/display/resubmit-manuscript.html>

> Reviewers' Comments:*Reviewer 1:**thanks for your efforts.**this manuscripts needs a total review by a naive English. the method of study, results and discussion parts should be completed according to scientific foundations.**Reviewer 2:***COMMENTS FOR AUTHORS:***Thank you for presenting this manuscript. But I have many questions about this presentation. The main drawback in this study was seen in results and conclusion section that need revision, totally.*

1- Title needs revision according to aim and finding of study.

For example: BEHAVIORAL PROBLEMS AMONG CHILDREN WITH GOOD (HbA1C \leq 8) and POOR (HbA1C $>$ 8) METABOLIC CONTROL TYPE 1 DIABETES MELLITUS

Abstract:

2- The results section was not well-organized. This section need revision.

Firstly, the frequency of IP, EP and AP should be reported in two study groups (good HbA1C \leq 8) and poor (HbA1C $>$ 8) and then statistical differences of variables is analyzed.

3- Conclusion was not justified. According to finding of your study, It seems that Poor metabolic control was not a risk factor for behavioral problems. You said: The average level of HbA1c from the abnormal score group of PSC-17 was 9.43 ± 3.52 %, while in the normal score group of PSC-17, the level of HbA1c was 10.4 ± 2.31 %. There is no association between behavioral problems with level of HbA1c.

Background:

4- Paragraph 2 was not related to study. PI deletes it.

5- Many studies have been done in this regard. Why the authors decided to conduct this study again? Which new question does the findings of this study answer? What is novelty of this study? PI mentions these tips, point to point.

Methods:

6- Number of eligible participants should be expressed in this section.

7- Inclusion and exclusion criteria were incomplete. PI organizes those.

8- How did you calculate the sample size? Which formula? Explain it. What was power of study? It seem that the number of participants were not enough.

9- There are many confounding factors in the studies about "behavioral problems" such as family income, parents' history of emotional disorders, history of psychological drugs consumption and any factors that compromised the behavioral status and so on. How did you include the confounding factors in the results? Clearly define all potential confounders and effect modifiers. Give diagnostic criteria, if applicable.

Results:

10- The results of attention values were not seen. PI notes it.

11- The 95% confidence level with lower and upper limits was not seen. PI completes it.

12- Table 2 was incomplete.

Discussion:

13- This section was so weak. In the discussion part you should write the main(s) finding(s) and specially (novelty) at first and then allude to other studies. [According to table 2, there is no association between behavioral problems with level of HbA1c].

14- It concentrates on the new and important aspects of the study and the achieve conclusions. The differences and advantages of this study should be compared and mention with other studied.

15- The recommendation were not seen. The recommendation should be mentioned in the last paragraph of discussion and in last paragraph any gap, question, hypothesis or comment should be declared (not utilize separate subheading). In recommendation part, it is suggested to express that use the guidelines in this situation. For example the authors note: [several symptoms and signs are used to proper the behavioral problems diagnosis. In addition, physicians should be known that the lack of attention to these symptoms and signs it lead to adverbs events such as suicide. The best way to proper diagnosis about this issue is using guidelines and behavioral check lists. Furthermore, practical guidelines and check lists may be helping to physician's insight on correct management, as in the accurate antibiotic using]. You should be mentioned to this valuable and new article about using check list and guide lines in your references: [A Survey of Pediatricians' Views and Practices Regarding Parents' Request for Prescribing Antibiotics: A Qualitative Study. Arch Pediatr Infect Dis. 2019 July; 7(3):e91217. doi: 10.5812/pedinfect.91217.]

Conclusion:

15- It needs revision, totally. Conclusion was not justified. According to finding of your study, it seems that Poor metabolic control was not a risk factor for behavioral problems.

References:

16- The most (30-40%) of references were too old. There have been only a few new references.

References need renewal.

thank you

Reviewer 3:

Thank you for choosing me to review this article. .

What is the purpose of this research and how will it help health care workers in the future? Please write at the end of the introduction.

Please Write the reference of good and bad control of diabetes based on Hba1c

How is the validity of the questionnaire checked.

Why was EP and IP frequency in good metabolic control and poor metabolic control respectively .Please explain more about the reason

> Associate Editor's Comments:

Associate Editor 1:

Dear EIC.

The manuscript have fundamental errors and needs major revision.

> EIC Decision:

Dear Author,

Please reply to reviewers comments and revise the manuscript based on comments.

> Uploaded Files by Reviewers/Associate Editor/ or EIC: Below, you can find the list of files attached by reviewers or associate editor or EIC during the review process (if any).

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UNIT KERJA ENDOKRIN ANAK <endokrin.ilmiah@gmail.com>

Fwd: Congratulations! Article ID 131806 is Accepted!

2 pesan

nur rochmah <nur-r@fk.unair.ac.id>

6 Agustus 2023 pukul 12.45

Kepada: Unit Kerja Endokrin Anak <endokrin.ilmiah@gmail.com>

----- Forwarded message -----

Dari: <no-reply@brieflands.com>

Date: Mon, 27 Nov 2022 20.40

Subject: Congratulations! Article ID 131806 is Accepted!

To: <nur-r@fk.unair.ac.id>

- **Journal:** [Journal of Comprehensive Pediatrics](#)
- **Manuscript ID:** 131806
- **Manuscript Title:** BEHAVIORAL PROBLEMS AMONG TYPE 1 DIABETES MELLITUS CHILDREN WITH GOOD AND POOR METABOLIC CONTROL DURING COVID-19 PANDEMIC
- **Revision:** [2]

Congratulations on your accepted article!

Dear Dr. Nur Rochmah,

We are pleased to inform you that the article mentioned above has been **Accepted** for publication in the journal. We recognize you choose where to submit your research, and we thank you for trusting us. As an expert in the field, you are best placed to explain why your article is exciting or impactful to a broader audience. Find out how you can help your paper get the visibility it deserves:

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Kepada: Unit Kerja Endokrin Anak <endokrin.ilmiah@gmail.com>

6 Agustus 2023 pukul 12.51

[Kutipan teks disembunyikan]