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Dear Dr. Luthfi.

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A manuscript has been submitted to our journal Journal of International Oral Health by Udijanto Tedjosasongko titled 'Analysis of IL-10 Anti-Inflammatory Cytokines Expression in Saliva of Children with Severe Early Childhood Caries and Caries-Free Children'. A copy of the acknowledgment mail is attached here with for your reference.

Thanking you **Editorial Team** Journal of International Oral Health

Dear Dr. Tedjosasongko,

Journal of International Ora I Health has received your manuscript entitled "Analysis of IL-10 Anti-Inflammatory Cytokines Expression in Saliva of Children with Severe Early Childhood Caries and Caries-Free Children" for consideration for publication. The reference number for this manuscript is "jioh 293 18". Kindly guote this in correspondence related to this manuscript.

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Dear Author

Please add multivariant analysis, means apart from P value, SD, mean regarding other test like ANOVA, multi regression, Post tukey or wilcoxn test which can be applied as per your study type and sample. Please add same in tables and results.

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1	ANALYSIS OF IL-10 ANTI-INFLAMMATORY CYTOKINES EXPRESSION IN SALIVA OF		
2	SEVERE EARLY CHILDHOOD CARIES		
3	Muhammad Luthfi ¹ , Aqsa Sjuhada Oki ² , Retno Indrawati ³ , Priyawan Rachmadi ⁴ , Muhaimin Rifa'i ⁵		
4			
5 6 7 8	^{1,2,3} Departments of Oral Biology, Faculty of Dental Medicine, Universitas Airlangga, Surabaya-Indonesia ⁴ Departments of Dental Material, Faculty of Dental Medicine, Universitas Airlangga, Surabaya-Indonesia ⁵ Department of Imunology and Physiology, Faculty of Sciences, Brawijaya University, Malang- Indonesia		
9 10	Correspondence: Muhammad Luthfi, Departement of Oral Biology, Faculty of Dental Medicine, Universitas Airlangga, Surabaya-Indonesia,.		
11			
12			
13	Running title: IL-10 CYTOKINES EXPRESSION IN SALIVA OF CARIES	Commented [a1]: Add	
14	Abstract	Commented [MOU2R1]: Commented [a3]: Need to	
15	Objective: This study aimed to analyze the expression of IL-10 in children with severe early childhood	Commented [MOU4R3]:	
16	caries and caries-free children.		
17 18 19 20 21 22 23	Method: Saliva taken from preschool aged children (4 to 6 years) was divided into two groups, ie heavy caries group with dmft> 6 and caries free with dmft = 0. Salivary neutrophils were obtained from participants by rinsing their oral cavities with 10 mL of sterile and 1.5% NaCl solution while they gargled without swallowing for 30 s before expectorating the resulting uid into a sterile glass – a procedure repeated four times. The collected solution was centrifuged (15 min at 450 g) at 4°C and the pellets then mixed with 2 mL of Roswell Park Memorial Institute medium. For expression test of IL-10, flow cytometry test was used.	Commented [a5]: Need d perform test related Commented [MOUGR5]:	etail method with sampling method and revised
24	Statistical test used: The results were listed as the mean \pm standard deviation. All statistical analyses	Commented [a7]: Add ap	plied section
25 26 27	were performed using SPSS 20 (IBM, New York, USA). The statistical difference was analyzed by <i>one way anova</i> . Correlation analyses were performed using tukey HSD with $P < 0.05$ being considered to be significant.	Commented [MOU8R7]:	revised
28	Results: IL-10 expression in saliva of children with severe early childhood caries was 3.32±0.79.		
29	Whereas, in children with no caries was 4.04±0.65.		
30	Conclusion: IL-10 expression in children with severe early childhood caries was significantly lower		
31	than in caries-free children.		
32	Key-Words: Severe Early Childhood Caries, Il-10, Lymphocyte Cells		
33			
34	Key Messages		
35	Interleukin-10 (IL-10) is an anti-inflammatory cytokine produced by innate immunity secreted because		
36	of the response of pathogen recognition receptors (PRRs) in contact with pathogen associated moleculer		

1 patterns (PAMPs). Secretion of IL-10 during bacterial infection is the most important factor in resolution

- 2 of infection. ECC has an impact on general health, ranging from local pain, infections, abscesses
- 3 Introduction:

Caries in early childhood (ECC) is a multifactorial disease resulting from interactions of various factors,
namely: cariogenic microbes, exposure to carbohydrate fermentation and various social variables. ECC
is a condition of health abnormalities found in children living in socially disadvantaged communities,
such as malnourished people with social and health inequalities.^[1] ECC has an impact on general health,
ranging from local pain, infections, abscesses, difficulty in chewing, malnutrition, indigestion, and
insomnia.^[2]

10 The body's immune system functions to defend the human body from foreign inventors. A compromised immune system can cause various diseases, such as infection, aging, allergies, various organ disorders 11 12 and other diseases, such as cancer and auto immune deficiency syndrome (AIDS).^[3] The role of the 13 body's immune system is becoming increasingly important in understanding the mechanisms of disease 14 prevention. The effective function of the body's immune system is to immediately eradicate the 15 infectious agent from the body. This is done by an interactive system of actions, namely innate (very 16 specific), fast but non-specific and adaptive immune system.^[4] which function as a pathogenic killer^[5], 17 produce antibodies, and CD8 + T cell cytotoxicity^[6]. 18 Immunity in the oral cavity is a system that makes a balance by controlling various microbes in the oral

cavity that are fluctuating due to external aggression. The mouth is the entrance and exchange with the
 outside environment. Therefore, homeostasis factors must be evaluated and controlled by the immune
 system.

The immune response to pathogens involves the rapid activation of the secretion of pro-inflammatory cytokine which functions to initiate host defenses against microbial invasion. However, excessive inflammatory cytokines in the tissues can cause systemic metabolic and hemodynamic disorders that are harmful to the host. As a result, the immune system has evolved to form anti-inflammatory functions to suppress the production of pro-inflammatory cytokines which function to limit tissue damage and to maintain tissue homeostasis.^[7] Interleukin 10 (IL-10) is an anti-inflammatory cytokine that plays an important role in preventing prolonged inflammation.^[8]

Various preventions of dental caries had been carried out, for example by brushing teeth properly, fluoridating with topical applications, and making vaccines which until now have not shown the expected results.^[9] Therefore, this study aimed to analyze the expression of IL-10 in saliva which functions as an anti-inflammatory. The results of this study are expected to be used as a marker of early detection of S-ECC.

34

35 Subjects and Methods:

Study Design: 1

- This was an observational analytic study using children with severe early childhood caries and caries-2
- 3 free children as the objects of research with a cross sectional study design. Ethical clearance test at
- 4 Universitas Airlangga, Faculty of Dental Medicine was done with Health Research Ethical Clearance
- Commission number of 209/HRECC. FODM/IX/2017. 5

Sampling Criteria: 6

- 7 eight children with S-ECC and eight free of caries were taken from the saliva of kindergarten children
- 8 aged 4 to 6 years in the south Surabaya region which were previously divided into two groups.
- 9 Group one was children with who were diagnosed with severe early childhood caries (S-ECC) marked
- 10 by decay exfoliation and filling (def-t>6). Whereas, group two was kindergarten children diagnosed
- 11 with free caries marked with def-t = 0.
- 12 5ml saliva taken from the kindergarten children with SECC and caries-free . Sampling was carried out
- 13 by researchers and trained personnel using protocol standards. Subjects might not eat, drink, chew gum,
- 14 or brush their teeth for 60 minutes before sampling. Furthermore, samples were frozen at -80oC for 15 analysis.

16 **Observational parameters:**

17 Analysis of IL-10 expression was determined using flow cytometry, according to Cherng et al (2008). 18 Fluorescein isothiocyanate (FITC), phycoerythrin (PE), allophycocyanin (APC), Peridinin chlorophyll 19 protein (PerCP), PerCP-Cy5.5-conjugated monoclonal antibodies (mAbs) from Becton Dickinson (San 20 Jose, CA, USA). The optimal concentration of mAbs is determined for each mAb with titration. Flow 21 cytometry simultaneously measures and analyzes the physical properties of particles such as cells 22 because it flows through the flow of fluid through a beam of light. The nature of scattering cell light can 23 be used to analyze changes in size, granularity, internal complexity and relative fluorescence intensity. 24 Flow cytometry analysis was performed to determine directly the pattern of lymphocyte 25 immunomodulation, using conjugated monoclonal antibodies (mAbs). 26

Statistical Analysis:

27	The results were listed as the mean \pm standard deviation. All statistical analyses were performed
28	using SPSS 20 (IBM, New York, USA). The statistical difference was analyzed by one way anova.
29	Correlation analyses were performed using tukey HSD with $P < 0.05$ being considered to be
30	significant.

31

32 **Results**:

33

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interval.

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Please add multivariant analysis, means apart from P value, SD, mean regarding other test like ANOVA, multi regression, Post tukey or wilcoxn test which can be applied as per your study type and sample. Please add same in tables and results. This is job of statastian. Please take help and add tables in manuscripts.

•Add country name of state software with detail of version. Statistical tests should be described in more details. P values should be accompanied by degree of freedom, and confidence

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Must be started with baseline parameters and any bias, or drop of sample must be mentioned

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- Data from the results of the study before the test using the t test, conducted tests of normality
 and homogeneity using the Shapiro-Wilk test. From the results of these tests indicate a value of P> 0.05
 which means that all data are normally distributed and homogeneous.
- 4 The results of statistical analysis one way anova in the S-ECC group showed that IL-10
- 5 expression (3.31%) was lower than that of the caries-free group (4.03%) (Table 1). Based on Levene's

4

6 test, there was significant difference in IL-10 expression between S-ECC with caries-free.

2 **Discussion:**

1

The results of the study showed that there was expression of IL-10 decrease in children with S-ECC compared to that in caries-free children. This was probably due to the S-ECC patients responding more antigens in the form of S. mutans bacteria which were relatively high in numbers compared to that in children with free caries.^[10]

7 An antigen structure called Pathogen Associated Molecular Pattern (PAMPs), which will be recognized 8 by Pattern Recognition Receptors (PRRs), namely Toll-like receptors (TLRs), is very important for triggering the effector phase of the innate immune response.^[11] TLR2 and TLR4 involved in the 9 10 introduction of Gram-positive and Gram-negative bacteria that have been detected in odontoblast cell 11 membranes in healthy pulp show that odontoblasts are equipped to recognize these pathogens when they 12 diffuse through the dentinal tubules during carious infection.^[12] One of the main consequences of TLR activation is an increase in the efficacy of innate immunity, including antimicrobial agents and 13 proinflammatory cytokines and chemokines that recruite and activate immune cells.^[13] One of the main 14 consequences of TLR activation is increased efficacy of innate immunity, including antimicrobial agents 15 and proinflammatory cytokines and chemokines that recruit and activate immune cells.^[13] This causes 16 17 the S-ECC saliva to increase prolonged inflammatory cytokines which eventually can cause tissue 18 damage that affects health in general, starting from local pain, infection, abscess, difficulty in chewing, 19 malnutrition, indigestion, and sleeping difficulty.^[14] 20 Based on the results of this study, high expression of proinflammatory cytokines in S-ECC should be

balanced by the immune host system by producing anti-inflammatory cytokines, IL-10. As a response 21 22 to pathogenic microbes, the body's adaptive immune system develops effector cells that function to prevent these threats, namely CD4 + memory T cells which serve as a protective against bacterial 23 infections.^[14] CD4 + cells participate in responding to secondary infections that have the potential as 24 anti-pathogens ^[5] producing antibodies and CD8 + T-cell cytotoxicity.^[6] However, this did not occur in 25 S-ECC so IL-10 expression in S-ECC saliva was significantly lower than that in caries-free children. 26 27 This was probably due to the role of the immune system in S-ECC which was not as good as that in 28 caries-free children.

29

30 Acknowledgement: Department of Oral Biology, Faculty of Dentistry, Universitas Airlangga

31 Source of funding:

- 32 The authors would like to thank Directorate of Research and Community Services of
- 33 Directorate General of Research and Development Strengthening from Ministry of Research,

34 Technology and Higher Education of the Republic of Indonesia for the grant funding provided for this

35 research.

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oAdd limitation and future scope at end of discussion. If added highlight one.

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6		uthor contributes to starting to determine the topic of the problem, sampling, research and		study conception, data collection, data acquisition and analysis, data interpretation, manuscript writing, other roles and finally
7		the authors approved the final version of the manuscript for publication.	\backslash	that all the authors approved the final version of the manuscript for publication
8 9	Muhammad I	Luthfi: Study conception, study design, intelectual content, literature research, data analysis, manuscript review, guarantor		Commented [MOU19R18]: revised
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17	Patient dee	claration of consent:	_	Commented [a20]: Should include "informed written
18	Befor	e saliva sampling from children aged 4 to 6 years, parents of the sample had agreed		consent for participation in the study and publication of the data for research and educational purposes". For case reports, to mention the standard template for "Declaration of patient
19	to signed a v	vritten informed consent.	\setminus	consent". For minor patients, kindly ensure "patient consent" is modified as "parental/ guardian consent" Participants were
20				given freedom to withdraw from the trial at any point. Regular care was ensured to the participant in the case of withdrawal.
21	Data Availa	ability statement:		Commented [MOU21R20]: revised
22	Datas	et can be made available after embargo period due to commercial restrictions		Commented [a22]: Statement that "The data set used in the current study is available (option as appropriate) a. repository
23			\setminus	arme b. name of the public domain resources c. data availability within the article or its supplementary materials d.
24				available on request from (contact name/email id) e. dataset can be made available after embargo period due to commercial
25	Abbreviati	ons		restrictions
26	ECC	: Early childhood caries		Commented [MOU23R22]: revised
27	S-ECC	: Severe early childhood caries		Commented [a24]: Add Commented [MOU25R24]: revised
28	IL-10	: Interleukin-10	(
29	PRRs	: Pathogen recognition receptors		
30	TLR	: Toll like receptors		
31	PAMPs	: Pathogen associated moleculer patterns		
32	CD8	: Cluster differentiation 8		
33	CD4	: Cluster differentiation 4		
34	def-t	: Decay exfoliation and filling		

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2	at the cros	sroads of ce	ell signalling a	nd inflammatory diseas	se," Biochimica et Biophysica A	cta—
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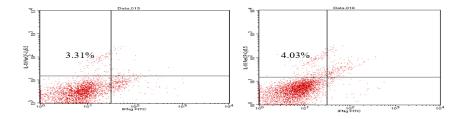
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 Image: Figure 1. Expression of IL-10 from S-ECC saliva after analyzed by Flow Cytometry test.

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