

KADAR sIgA SALIVA PADA ANAK DENGAN *SEVERE-EARLY CHILDHOOD CRIES* (S-ECC) DAN ANAK BEBAS KARIES

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**SEVERE-EARLY CHILDHOOD**

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***ABSTRACT***

***sIgA SALIVA LEVEL IN CHILDREN WITH SEVERE-EARLY CHILDHOOD CRIES (S-ECC) AND FREE CRIES CHILDREN***

*Background:* Early Childhood Caries is a term for the presence of 1 or more decayed (noncavitated or cavitated lesions), missing (due to caries), or filled tooth surfaces in any primary tooth in a child 71months of age or younger. While in children younger than 3 years of age, any sign of smooth-surface caries is indicative of severe early childhood caries (S-ECC). From ages 3 through 5, one or more cavitated, missing (due to caries), or filled smooth surfaces in primary maxillary anterior teeth or a decayed, missing, or filled score of  $\geq 4$  (age 3),  $\geq 5$  (age 4), or  $\geq 6$  (age 5) surfaces constitutes S-ECC. Theoretically sIgA is known able to inhibit the attachment, colonization and aggregation of *S.mutans* in caries process. Still, former studies result was vary between two groups. *Purpose:* The purpose of this study was to evaluate the difference level of salivary sIgA specific *S.mutans* between children with S-ECC and free caries children. *Material and Method:* This study was using non stimulated saliva collected from 10 children aged 5 y.o, divided into two groups, S-ECC and free caries. Saliva was collected in the morning due to circadian rhytm, and children had been instructed fasting for 2 hours before the collection. The saliva then processed against *Streptococcus mutans* antigen using ELISA technique in laboratory. *Results:* There were significant difference in level of saliva sIgA specific *S.mutans* between children with S-ECC and free caries children. *Conclusion:* The conclusion is level of salivary sIgA in children with S-ECC is higher than in free caries children. This condition indicated higher antibody level is to respon higher level of antigen (*S.mutans*).

***Key words:*** Severe Early Childhood Caries, free caries, level salivary sIgA specific *S.mutans*