

## Hubungan Kadar sIgA Saliva dengan Gingivitis Anak Sindroma Down = Relationship of Salivary sIgA Concentration with Gingivitis in Down Syndrome Children

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### Abstrak

Sindroma Down disebabkan abnormalitas kromosom yaitu adanya kromosom ekstra pada pasangan kromosom ke 21 dengan karakteristik tertentu. Anak sindroma Down memiliki gingivitis. sIgA di dalam saliva merupakan tanda diaktifasinya respon imun humoral di dalam rongga mulut. Penelitian ini bertujuan untuk mengetahui hubungan kadar sIgA saliva dengan gingivitis anak sindroma Down. Subyek penelitian berusia 15-17 tahun, sebanyak 34 anak yang terdiri dari 17 anak sindroma Down dan 17 anak normal. Seluruh subyek penelitian dinilai kadar sIgA saliva menggunakan ELISA tidak langsung. Hasil penelitian menunjukkan hubungan negatif lemah tidak bermakna antara kadar sIgA saliva dan gingivitis anak sindroma Down. ( $r=-0.210$ ,  $p=0.419$ ). Penelitian ini dapat disimpulkan semakin tinggi kadar sIgA saliva pada anak sindroma Down maka semakin rendah gingivitis anak sindroma Down

.....Down syndrome is an abnormality caused by extra chromosome in the 21st pair of chromosomes with specific characteristics. Children with Down syndrome mostly have gingivitis in their mouth. sIgA in the saliva is a sign activated by humoral immune response in the oral cavity. The aim of this study is to investigate the relationship of salivary sIgA concentration with gingivitis in Down syndrome children. Total of the subjects are 34 consisting of 17 down syndrome children and 17 normal children and aged between 15-17 years old. All subject assessed the concentration of salivary sIgA using indirect ELISA. The results showed an insignificant weak negative correlation between salivary sIgA concentration and gingivitis in Down syndrome children. This study established that the higher levels of salivary sIgA in Down syndrome children, the lower gingivitis in Down syndrome children.