

The Relationship between Caries Severity with Nutritional Status on Children Aged 6-12 Years Old

Hubungan Tingkat Keparahan Karies dengan Status Gizi pada Anak Umur 6-12 Tahun

ABSTRACT

Background. High prevalence of caries and poor nutritional status in children are an important issues. There are some mechanisms that dental caries may affect the child's BMI (Body Mass Index). Untreated dental caries will lead to an infection, can also cause pain and discomfort to the patient thereby reducing food intake also BMI. **Objective.** The aim of this research is to know the relationship between caries severity and nutritional status of children aged 6-12 years in Elementary School in Gunung Anyar, Surabaya. **Method.** The type of this research was observational analytic with cross sectional study. The samples of this research were 129 students of the Rungkut Menanggal I government elementary school, Rungkut Menanggal II government elementary school, Gunung Anyar no.273 government elementary school, and Gunung Anyar Tambak no.628 government elementary school. Caries measurement using def index, DMF index, pufa index, and PUFA index and also measurement of nutritional status using BMI (Body Mass Index). **Result.** The result of this research showed that the calculation of the Spearman, p value of pufa and BMI is 0.770, p value of PUFA and BMI is 0.701, with $p > 0.05$, which also means no relationship found between pufa with BMI and PUFA with BMI. **Conclusion.** Children with high score of def have higher prevalence of malnutrition.

Keyword: children aged 6-12 years old, Caries, BMI.