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Analogizing the Nexus of Nutritional Status and Oral Health in Children of Pre-School age in Ranchi City of East India: A Protocol

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ABSTRACT

This contemporary research purposes to analogize the nexus between the Body mass index (BMI) and oral health status (caries, plaque status) in primary dentition of preschool going children of Ranchi, Jharkhand, India. No significant association was concluded between BMI, dental caries and plaque aggregation in pre-school children of Ranchi city. The interconnection of BMI with dental caries and plaque accumulation is always seen with two sided documented literature, one section proves positive or negative association, second proves no association between these parameters. Our study adds to the previous literature proving no connotation between BMI, dental caries and plaque aggregation.

ATTACHMENTS

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Introduction

1

Anthropometric measurements are the human body measurements which quantify us with vital indicators of nutritional status in children and adults. These include overall health, nutritive adequacy, growth and development measurements over time in growing children and adults. Body mass index (BMI) measurement index is used for measuring nutritional status quantitatively by measuring height and weight respectively and can be compared with other parameters like oral diseases. Voluminous research had been conducted so far to compare BMI with dental caries and periodontal diseases. However, there is a scarcity of literature in the arena of pediatric dentistry as far as BMI relationship with dental caries or oral hygiene standing in pre-school children is concerned. In fact, only handful of studies of such nature had been attempted so far in Jharkhand region of India. Thus, this research work is a genuine endeavor to recognise the association between nutritional status and dental health in pre-school children in Jharkhand region.