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Medical conditions associated with tooth loss among Saudi adults

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Upon reviewing the literature, the prevalence of many systemic conditions such as diabetes, hypertension, asthma and rheumatoid arthritis were reported to be high in Saudi Arabia. The relationship of these conditions with tooth loss among Saudi population was not investigated. Therefore, the aim of this study is to explore the relationship between tooth loss and most common medical conditions among Saudi dental patient. The study participants were 250 patients who were randomly selected from the College of Dentistry database of King Saud bin Abdulaziz University for Health Sciences (KSAU-HS) in Riyadh, Saudi Arabia. Participants were requested to answer self-administered questionnaires related to their demographic as well as general health questions concerned to the presence of systemic medical conditions. Missing teeth were determined after examining the Orthopentagram radiographs and reviewing the Romexis and SALUD databases. Descriptive statistics, independent t-test and linear multiple regression model were performed using SPSS software. The mean number of missing teeth among the study population was 5.8 teeth per person. Patients who reported diabetes, hypertension, rheumatoid arthritis, cardiovascular diseases, and osteoporosis have higher mean number of missing teeth compared with the subjects who are healthy. A multiple linear regression analysis model revealed that diabetes, hypertension and rheumatoid were significant predictors of missing teeth among Saudi population. These results highlight the importance of the effect of medical conditions on oral health.

Biography

Lolowh Almogbel is a dental intern who graduated from dental school at the age of 23 years from King Saud bin Abdulaziz University for Health Sciences. She has worked 5 different research projects and participated in multiple conferences as poster presenter. Additionally, she was awarded 3rd Place Winning Oral Presentation at the 1st Annual Dental Research Day at King Saud bin Abdulaziz University for Health Science, College of Dentistry.

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