

Prevalence and Characteristics of Non-Carious Cervical Lesions in Abha City, Saudi Arabia

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ABSTRACT

Background: The aim of the study is to evaluate the prevalence of non-carious cervical lesions in Abha city, Saudi Arabia.

Methods: This study includes clinical examination of dental patients attending OPD at College of Dentistry, King Khalid University. A convenient sample size of 486 patients (Male=281; Female=205) participants aged between 20 and 60 years was included. Voluntary informed consent was obtained from the parents before the examination of the child. Dental examinations were carried out using a standard mouth mirror and dental probe. The following parameters were recorded: the diagnoses of abrasion, erosion, and abfraction and data was collected. The results were recorded and analyzed for statistical significance using the Chi-square test and t-test with a P-value of <0.05 considered significant.

Results: There were more male patients (58%), and the sex ratio was 1.37. Graduates were the most represented professional category (39%), and 311 (64%) patients resided in urban area. A total of 91 of the 486 patients who were examined in this study. All up, there were 91 patients, with 1432 teeth that were affected. The following NCCL were recorded, Abrasion lesions were encountered the most, and they concerned 610 teeth (42.5%), followed by Abfraction, which was found on 442 teeth or 30.8%. and erosion, which was diagnosed on 380 teeth or 26.5%.

Conclusions: In our study, the prevalence of NCCLs was 18.72% reported. The first molars are the most commonly affected teeth by NCCLs in the Saudi population, followed by premolars, canines, and incisors. This distribution may vary among different populations and can be influenced by dietary habits, oral hygiene practices, and other environmental factors. NCCLs are pathologies of the neck of the tooth that is of great concern both in terms their clinical and etiological diagnosis as well as their therapy.

Keywords: Prevalence, Non-Carious Cervical Lesions, Erosion, Abrasion, Dental Caries, Saudi Arabia

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