

22nd International Conference on

DENTAL EDUCATION

April 09-10, 2018 | Amsterdam, Netherlands

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Odontogenic trauma causing dysplastic changes in oral mucosa: The ignored culprit

Many carcinogenic agents are emphasized as predisposing factors for dysplastic changes leading to OSCC, but inflammation caused by odontogenic trauma has been ignored to certain extent. NF- κ B family has vital role in the inflammation and is considered to be involved in the initiation and progression of oral cancer. The purpose of this study was to see the cause and effect relationship between the traumatic inflammation and the dysplastic changes observed in confirmed cases of OSCC using NF- κ B pathway. The study was conducted on a sample of 28 patients of OSCC collected from University affiliated hospitals. Among these 23% patients presented with the clinical evidence of odontogenic trauma females made up 48% of cases, while 52% were males. The majority of lesions occurred on the buccal mucosa (57.14%) followed by tongue (33.33%) and retromolar region (9.53%). These specimens were then processed for the NF- κ B analysis. The real time PCR reactions were set up for each sample after reverse transcriptase (RT-PCR) reactions with Eva Green primers. All the patients presented with mucosal trauma due to odontogenic reason showed threefold increase of NF- κ B amplification, as compared to the other OSCC samples suggesting that inflammation caused as a result of trauma was one of the important initiating factors for dysplastic changes. Early detection and elimination of local trauma due to odontogenic causes could have prevented the dysplastic changes.

Biography

Farhat Kazmi is expert in diagnosing the oral & maxillofacial diseases based on comprehensive, methodical history taking and astute observation of clinical features. She is uniquely qualified to combine expertise in histopathology diagnosis, clinical diagnosis, and treatment. She is academican having more than ten years of experience of teaching at undergraduate and post graduate level. She is currently working as an Associate Professor in College of Dentistry, Princess Noura Bint Abdurehman University, Riyadh, Saudi Arabia. She studied Dentistry from DeMontomercy College of dentistry and received Bachelors of Dental surgery (BDS). Then she did her master's (M. Phil) and PhD in Oral Pathology. Due to her significant contributions to the profession she has been awarded Fellowship by International College of Dentistry. Apart from teaching she has also organized various courses and workshops. She is Member of various academic organizations and has presented her research work both at national and international conferences. She has published more than twenty papers in reputed journals. Dr. Kazmi is also working as a reviewer and editorial board member in many journals.

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