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A study on exploring the toxicity of alcohol in the oral mucosa of alcoholics**Karthikeyan G**

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Background: Oral cancer is the most common malignancy in nearly half of Indian population. The main causes of oral carcinoma are tobacco, alcohol, poor diet and infective agents. These agents damage the chromosomes to form several secondary nuclei known as micronuclei. This study identifies the occurrence of micronuclei and also evaluates the frequency of micronuclei in stained smears of oral exfoliative cells from healthy subjects and alcoholic subjects.

Materials & Methods: A total number of 60 alcoholic subjects were referred to the Department of Anatomy, Saveetha Medical College for micronucleus assay from the Department of Dentistry. Equal numbers of controls were included with normal looking oral cavities.

Results: Out of 60 alcoholic subjects 43 showed presence of micronuclei and out of 60 control subjects, only 6 showed micronuclei. With these observations it is found that alcohol is one of the factors predisposing to oral carcinoma.

Conclusion: It is evident from our present study, it is clear that in alcohol consumption, the buccal mucosa, which are at high risk for development of oral cancer, show an increase in micro-nuclear frequencies.

Recent Publications

1. P K Sankaran, G Karthikeyan, M Kumaresan (2016) Morphometric study of renal artery and its variations in level of origin. *National Journal of Clinical Anatomy*; 511-142.
2. P K Sankaran, M Kumaresan, G Karthikeyan, Yuvaraj M (2015) Expression of Glial Fibrillary Acidic Protein (GFAP) in the Trigeminal Ganglion of Male Wistar Rats. *Indian Journal of Clinical Anatomy and Physiology*; 2(3): 145-147.

Biography

Karthikeyan G is an Assistant Professor of Department of Anatomy at Saveetha Medical College & Hospital, India. He has upcoming research projects which are granted by Indian Council of Medical Research.

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