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## Estimation of serum malondialdehyde in oral cancer and pre cancer

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**Introduction:** Tobacco and alcohol induces generation of free radicals and reactive oxygen species which are responsible for high rate of lipid peroxidation. Malondialdehyde is the most widely used marker of lipid peroxidation. The aim of the study was to estimate serum malondialdehyde level in oral pre cancer, oral cancer and normal individuals.

**Materials & Methods:** In this study serum malondialdehyde was measured according to the method of Ohkawa et al in 30 normal individuals and 30 patients each with histo-pathologically diagnosed oral pre cancer and oral cancer.

**Results:** The mean serum malondialdehyde level in the control group was found to be  $5.107 \pm 2.32$   $\mu\text{mol/ml}$ , whereas it was  $9.33 \pm 4.89$   $\mu\text{mol/ml}$  and  $14.34 \pm 1.43$   $\mu\text{mol/ml}$  in oral pre cancer and oral cancer, respectively. There was statistically significant increase in serum malondialdehyde levels in the oral pre cancer and oral cancer patients compared with the control group.

**Conclusion:** Increased serum malondialdehyde in oral cancer and oral precancer would serve as a valuable marker for both preventive and clinical intervention and may deserve further investigation for the early diagnosis, treatment and prognosis.

## Biography

Akhilanand Chaurasia is Associate professor and consultant at King George Medical University in India and has dedicated meticulous efforts and supreme services pertaining to oral medicine, oral biology and community health. He has remarkable credit of contributing to academics for publishing 49 research papers, peer reviewer of more than 150 international journals with high impact factors, one of top 10 authors in subject of Head and neck Radiology of Europe and member of several international organization related to field of Oral Medicine, Oral biology and community health. He is member of editorial board of 14 international journals, editor in chief of 2 national journals, editor of 9 international journals and associate editor of 1 international journal. Currently He is perusing PhD in chronobiology of head and neck cancer.

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