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Comparison of self-nano emulsifying drug versus conventional drug in oral lesions and potentially malignant disorders

Sanjeev Laller

PDM Dental College and Research Institute, India

Introduction: Nanotechnology has revolutionized each and every sector including medical industry. Nanotechnology is an emerging technology that has shown great potential for delivering bioactive compounds in the functional foods to improve human health. Curcumin/turmeric has various health-beneficial properties in numerous studies. However its bioavailability is low due to its limited intestinal uptake and rapid metabolism. The aim of our research study was to compare novel self-nano emulsifying curcumin formulations with improved oral bioavailability and thus its beneficial effects; with conventional curcumin formulations in oral lesions and potentially malignant disorders.

Materials & Methodology: 100 (50 in Group-A and 50 in Group-B) subjects diagnosed clinically with oral lesions and oral potentially malignant disorders were included in this study. The Group-A patients were administered commercially available nano-turmeric systemically and topically and Group-B was given systemic and topical application of normal or conventional turmeric. The clinical appearance of lesions (based on the Thongprasom score) and pain severity (based on the visual analogue score) were recorded before treatment and at the end of the first, second and fourth week of the intervention.

Results: Using repeated measures analyses of variance, there were statistically significant differences observed between both the groups in pain intensity and clinical appearance of oral lesions (more positive results in patients treated with nano curcumin formulations).

Conclusion & Significance: Curcumin nano formulations can bring about significant clinical improvements in oral lesions and potentially malignant disorders. Using a nanomicell formulation of oral curcumin could be considered as an alternative treatment for such patients as this drug is safe and has few side effects. However, it needs further studies with larger sample sizes and longer follow-up periods.

Biography

Sanjeev Laller has his experience as Member of organizing committee for National IAOMR Convention 2009 at KD Dental College, Mathura and was also a Member of organizing committee for National IAOMR Conference 2012 at Panchkula. He also chaired various sessions as Chairperson at national and international conferences. He has attended and presented multiple papers and posters in national and international conferences. He has experience as Guide and Co-guide for Post Graduate student since 2013. He has around 70 publications in his credit in various national and international indexed journals. Not only published articles but he is Author and Co-author in 3 books related to dentistry published under Lombard publication. He is always interested in advanced technologies pertaining to the field of dentistry and has keen interest in attending as much as possible scientific conferences, conventions, seminars, symposiums, CDE programs to keep him updated.

drlallersanjeev@gmail.com

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