Abstract:

**Title:** The effect of protocol mouthwash in the prevention of head and neck radiotherapy–induced stomatitis

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**Background:** Oral stomatitis is a common disorder in patients with head and neck radiotherapy. It makes painful ulcer, dehydration, malnutrition and potentially life-threatening infection. Oral care and mouthwash help in prevention and treatment from stomatitis. The aim of this study was to investigate the effect of protocols of mouth washing in the prevention of head and neck radiotherapy induced– stomatitis.

**Material& Method:** The present study is clinical trial, single blind. The study sample size was estimated 21 people. The first experiment group (N=41) gurgled with 3 cc Matrica mouthwash, the second experiment group (n=41) gurgled a solution containing 21 cc diluted honey and control group was used water mouthwash. The subjects assessed with WHO grading scale. Results entailing categorical and continuous variables analyzed by analysis of fisher exact test, Fried Mann test, Mann-Whitney U test and t-tests as appropriate.

**Result:** No significant difference revealed in the mean of stomatitis grading between the experiments and the control group in the first day of assessment. But, stomatitis was significant more severe in the chamomile and the control group compared with the honey group at the days of 7 and 24. Furthermore, the most severe stomatitis, found in the subjects using only water for mouth washing. No significant difference revealed in the mean of stomatitis grading between honey & Matrica groups.

**Conclusion:** It indicated that Matrica & honey mouth washing could be able to prevent and treat the ulcer stomatitis induced –radiotherapy.

**Key word:** Stomatitis, Radiotherapy Head and neck, Matrica, Honey, Mouthwash