

Clinical Evaluation of the Effect of a Hydrogen Peroxide Mouth Rinse, Toothette-Plus® Swab Containing Sodium Bicarbonate, and a Water-Based Mouth Moisturizer on Oral Health in Medically Compromised Patients

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Authors: William Carl, DMD, Carrie Daly, RN, MS, Sebastiano Andreana, DDS, MS, Sebastian Ciancio, DDS, Robert E. Cohen, DDS, PhD, Russell J. Nisengard, DDS, PhD

OBJECTIVE:

To assess the clinical efficacy of a hydrogen peroxide mouth rinse, sodium bicarbonate containing Toothette® Plus swab, and a water-based mouth moisturizer on oral health of patients undergoing chemotherapy for cancer.

difference between groups because the sample sizes differed and there was a wide variation within the subjects' responses. However, for almost all comparisons, results of evaluations using Sage products were better than those of the control group."

STUDY DESIGN:

Double-blind, stratified, two-treatment, parallel trial involving 48 adult volunteers at two cancer treatment centers over a four-week period.

ADVERSE EFFECTS:

- No significant product-related adverse effects, including staining of teeth, were observed in either group.
- "The Sage group patients almost unanimously liked their product (34/35), whereas only 1 of 16 patients in the control group liked their product."

CONTROL:

Baking soda and water rinses or lemon glycerin solution.

CONCLUSION/DISCUSSION:

- "Patients felt the Perox-A-Mint® solution and Toothettes® were soothing, left a clean, fresh feeling in their mouth, and helped to reduce thick ropery saliva."
- "This indicates that Sage 6000 also may be helpful in patients affected by xerostomia."
- "Sage products significantly reduced the chemical or metallic taste in the mouth due to chemotherapy, helped improve appetite and decreased a feeling of nausea in most patients."
- "The Sage 6000 kit can be recommended for safety and efficacy in patients undergoing chemotherapy and concomitant therapy."

RESULTS:

- "Only 24% of patients in the Sage group showed tissue abnormalities compared to 44% of those in the control group."
- Mucositis Evaluation – "To summarize, in percentages, the adverse change in mucositis was 3% in the Sage group and 15% in the control group."
- Plaque Index – (Table 3)
- Gingivitis Index – (Table 4)
- Statistical Evaluation – "There was no significant

Table 3 Plaque Index Changes from Baseline

Group	Minimal Change	Improved	Worse	Percentage Minimal and Improved	Percentage Worse
Sage (n=14)	4	6	4	72%	28%
Control (n=6)	1	2	3	50%	50%

Table 4 Gingivitis Index Changes from Baseline

Group	Minimal Change	Improved	Worse	Percentage Minimal and Improved	Percentage Worse
Sage (n=14)	2	7	5	64%	36%
Control (n=6)	0	4	2	66%	34%