

## The Use of Hypochlorous Acid in an Irradiation Ulcer of the Lower Eyelid - A Case Study

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### ABSTRACT

Radiation therapy represents an important cornerstone in the treatment of numerous cancers, as evidenced by the fact that approximately 50% of patients with cancer will receive this form of treatment. In 95% of these individuals, radiation therapy causes some form of skin injury as high doses of radiation causes significant harm to healthy tissue and skin. Management of injuries due to ionizing radiation is challenging, with injuries ranging from acute redness to full ulceration of the skin. This can cause considerable anxiety and discomfort to patients. This case study explores the use of hypochlorous acid (HOCl) in the treatment of acute radiation injury of the lower eyelid skin. HOCl is an effective antiseptic against drug sensitive, as well as multiple drug resistant pathogens, has antibiofilm properties and demonstrate inflammation modulation, which assist with healing. The case responded well to daily spray application of HOCl (presented as Trifectiv plus Wound & Burn Care). The case representations suggest that satisfactory results can be obtained with conservative management of radiation-induced ulcers. Patients can be treated at home using simple, yet effective spray application with pharmaceutical grade HOCl. Home treatment, monitored by the health care provider saves time and cost and improves patient compliance and quality of life.

**Keywords:** Trifectiv plus, Wound & burn care, Pharmaceutical grade, HOCl

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