

Stable ozonides for a technological intervention against Incontinence Associated Dermatitis



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INTRODUCTION - Assisting the elderly means detecting and managing skin problems related to pressure above the bone prominencies (prevention of pressure injuries), to the maceration of sweating areas (groins, submammary and abdominal folds) and to aggression by urine and stool (IAD - Incontinence Associated Dermatitis). In Italy, zinc oxide paste has always been the first choice product to manage these problems; the aim of this work is to demonstrate that today there is a much more effective technological alternative with an absolutely advantageous cost-benefit ratio.

MATERIALS AND METHODS - We collected data on 50 patients of which 30 (Treatment Group - TGroup) with skin fold maceration and Incontinence Associated Dermatitis (IAD) and 20 (Prevention Group - PGroup) with blanchable erythema (Linda Russel's grade 0). All patients had treatment with a barrier cream containing Ozoile® (stable ozonides derived from olive oil)*. The treatment protocol provided the application of the product twice a day and, in case of IAD, at any napkin change. The observation time was 4 weeks. For the TGroup, healing, improvement and worsening were evaluated; for the PGroup healing, worsening of stage (from 0 to 1) and appearance of skin lesion.

*Rigenoma Barrier Cream - Erbagil s.r.l. (Santa Lucia BN, Italy)

RESULTS - TGroup patients: 46.7% improved, 53.3% healed; no worsenings. PGroup patients: 85% healed; no worsenings. There is a significant reduction in the healing times of the submammary maceration lesions (less than 30 days), also and above all with the concomitant fungal colonization.

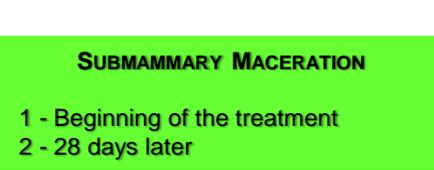
INCONTINENCE-ASSOCIATED DERMATITIS		
MEAN TREATMENT TIMES		
ZINC OXIDE	SILVER SPRAY POWDER	OZOILE® BARRIER CREAM
132.1 days	87.3 days	29.7 days

INCONTINENCE-ASSOCIATED DERMATITIS		
MEAN TREATMENT COSTS		
ZINC OXIDE	SILVER SPRAY POWDER	OZOILE® BARRIER CREAM
168.84 USD	185.95 USD	100.85 USD



INCONTINENCE-ASSOCIATED DERMATITIS

1 - Beginning of the treatment
 2 - 24 days later



SUBMAMMARY MACERATION

1 - Beginning of the treatment
 2 - 28 days later



CONCLUSIONS - Comparing the data obtained with those of the literature on zinc oxide paste, we can say that Ozoile® reduces the healing times of IAD and skin lesions from maceration by over 75% and reduces costs by over 40%.

Technological dressings with active ingredients that interact with tissues represent the most recent evolution of wound care, destroying bacteria and fungi and accelerating tissue repair.

References:

1. Stamatias GN, Zvulunov A, Horowitz P, Grove GL. Dermatology research and practice: skin barrier protection. Hindawi Publishing Corporation, 2012
2. Mostosi C, Simonart T. Effectiveness of barrier creams against irritant contact dermatitis. in Dermatology, vol. 232, 2016, pp. 353-3623.
3. Cassino R et al. Creme barriera a confronto: tecnolalternativa all'ossido di zinco. AIUC (Italian Association of Skin Ulcers) 16th National Congress, 2021. Rome (Italy)