

# IMPROVING THE HEALING PROCESS WITH MULTIFUNCTIONAL POLYMERIC MEMBRANE DRESSING

Veronica Sierra Peinado<sup>1</sup>, Laura Baltà Domínguez<sup>1</sup>, Sofia Megino Escobar<sup>1</sup>, Concepción Lara Lopez <sup>2</sup>, Yolanda Baños Lazaro<sup>2</sup>, Valentina Osses González<sup>2</sup>

<sup>1</sup> Institut Català de la Salut, Barcelona, Spain. <sup>2</sup> Servicio Madrileño de Salud, Madrid, Spain.

## AIM

The primary goal in wound care is to achieve healing in the shortest possible time and without complications. The treatment chosen depends on the etiology of the injury, its evolution, and the individual needs of each patient. For years, we have used Multifunctional Polymeric Membrane Dressings (MPMDs) on wounds of various etiologies, caused by different agents, and at different stages of the healing process.

## METHOD

Descriptive case study of MPMD use in Spain during 2023 and 2024. Data collection was performed by healthcare professionals in primary care, hospitals, occupational health services, and podiatry centers, and subsequently evaluated by a wound care nurse expert. We included 36 cases of various etiologies, ranging from venous ulcers to radiation dermatitis wounds. These were treated exclusively with MPMDs without any other concomitant products. We monitored the size of the wounds until complete healing through photography and pain with the visual analog scale (VAS).

## RESULTS/DISCUSSION

MPMDs have demonstrated their effectiveness in wound healing<sup>1</sup>, reducing associated pain<sup>2</sup>, positively impacting tissue mechanisms, and reducing the use of multiple products.

## CONCLUSION

MPMDs are an excellent option for treating wounds of any etiology, by skilled nurses, caregivers, or even patients themselves, reducing the morbidity of wounds and improving patients' quality of life.

<sup>1</sup>Beitz AJ, Newman A, Kahn AR et al. A polymeric membrane dressing with antinociceptive properties: analysis with a rodent model of stab wound. *Journal of Pain* 2004; 5(1): 38–47  
<sup>2</sup>Kahn AR, Sessions RW, Apasova EV. A superficial cutaneous dressing inhibits pain, inflammation and swelling in deep tissues. *Pain Medicine* 2000; 1(2): 187

Polymem<sup>®</sup>: Multifunctional polymeric membrane dressing

# THE JOINT EWMA-GNEAUPP 2025 CONFERENCE

BARCELONA, SPAIN • 26 – 28 MARCH 2025

### RADIODERMATITIS

- 67-year-old man undergoing radiotherapy for Moderately differentiated squamous cell carcinoma of the oral cavity T4aN2bM0.
- 35 radiotherapy sessions are scheduled.
- In session 15, radiodermatitis diagnosed on both sides of the neck. Topical treatments with corticosteroid and antibiotic creams are initiated.
- After 12 days of topical treatment, in session 28/35, treatments with MPMD every 24 hours are started. Superficial wound of 15x8 cm in extension, with moderate exudate.
- In the second treatment, the patient reported a considerable pain relief. The wound closed completely 4 weeks post-radiotherapy treatment.



6/09/2024



11/09/2024



26/09/2024



04/10/2024

Concepción Lara Lopez. Servicio Madrileño de Salud

### VASCULAR WOUND

- 90-year-old woman with PMH: DM, HTN, CKD with a Martorell ulcer of 2 months evolution, VAS 8, with dressings every 48 hours using various moist wound healing dressings.
- Treatment is initiated with MPMD Silver for the first 3 weeks. Dressings are continued with MPMD MAX for 4 weeks and MPMD for another 4 weeks until complete healing at 12 weeks.
- The VAS score decreased from 8 to 4 in the first 3 weeks and further decreased to 2.



21/6/2024  
6x2 cm  
EVA:8



26/6/2024  
5x2cm  
EVA:4



19/07/2024  
2,5x0,5cm  
EVA:2



25/08/2024

M José Gil Mosteo. Servicio Aragonés de Salud

### ACUTE WOUND

- 34-year-old man who comes to the Mutual Insurance Company due to a work accident. Wound with loss of substance in the first finger of the right hand.
- Treatment is applied with MPMD Finger and treatment is performed at 24 hours. After the first treatment, treatments are continued every 48 hours until complete healing in a total of 8 treatments.
- The VAS score went from 4 to 1 in the first treatment (24 hours), being 0 at 48 hours.



24/08/2024  
2º CURA



30/08/2024  
5ª CURA



04/09/2024  
7ª CURA



06/09/2024  
8ª CURA

Alba Clarens. Barcelona