# A wound dressing shows its value: clinical and economic effects of a dressing regime change for primary and home care chronic wound management

Andres Roldan Valenzuela<sup>1</sup>, Veronica Galindo Cantillo<sup>1</sup>, Fco de Borja Lopez Casanova<sup>1</sup>, Susana Maria Ordonez Ferrer<sup>1</sup>, Luisa Fernanda Hernandez Palanco<sup>2</sup>, Arturo Berjano Rodriguez<sup>3</sup>, Maria Jose Cabrera Aguera<sup>4</sup>, Juana Maria Illanes Valenzuela<sup>5</sup>, Inmaculada Lopez Moraleda<sup>6</sup>, Olga Prieto Torrado<sup>7</sup>, Gema Castillo Aparicio<sup>8</sup>

1. Centro de Salud Mairena del Aljarafe - Ciudad Expo, Seville, Spain; 2. Centro de Salud Pilas, Seville, Spain; 3. Centro de Salud Alcalá del Rio, Seville, Spain; 4. Centro de Salud Blas Infante (Coria del Río), Seville, Spain; 5. Centro de Salud Nuestra Señora de la Paz (San Juan de Aznalfarache), Seville, Spain; 6. Centro de Salud Viso del Alcor, Seville, Spain; 7. Centro de Salud Cazalla de la Sierra, Seville, Spain; 8. Centro de Salud La Algaba, Seville, Spain

#### STUDY AIM

To investigate potential benefits of a **change in dressing regime** for chronic wound management in primary and home care settings.

## Background

- Budgetary and staffing constraints often mandate an approach of doing more with less, without sacrificing patient outcomes.
- As part of an initiative to optimise dressing usage in primary care facilities in Seville (Spain), a literature review identified a multilayered, bordered, silicone-coated foam dressing (SFD\*) as best fulfilling published requirements for bordered foam dressings (fluid absorption / retention / evaporation, conformability / compatibility, stiffness / strength, adhesiveness, permeability to pathogens).<sup>1</sup>

#### Multilayered structure of bordered, silicone-coated foam dressing (SFD)



## Methods

clusion criteria

- Adult with wound appropriate for management with SFD
- Wound not reduced in size by >40% to 50% in previous month
- Wound managed with foam dressing (other than SFD) for minimum of 4 weeks, prior to baseline visit.



- Contraindication/sensitisation to SFD components
- Pressure injury stage 1, deep tissue injury or terminal wound.

## • Structured educational support programme for study clinicians

- Bordered foam dressings (BFD) switched to SFD for ≥4 weeks (while maintaining the same standard of care),
- Historical data collated on BFD usage in the 7 days preceding the baseline visit.
- SFD usage in the 7 days preceding the final visit was evaluated.

#### Key outcome measures:

- Number of dressing changes
- ✓ Wound progress (improved, no change, deteriorated), size/condition, peri-wound condition.
- ✓ Performance ratings of dressings (clinician and patient).
- ✓ Pain before and during dressing change (on a scale from 0 = no pain to 10 = worst pain imaginable); adverse events.

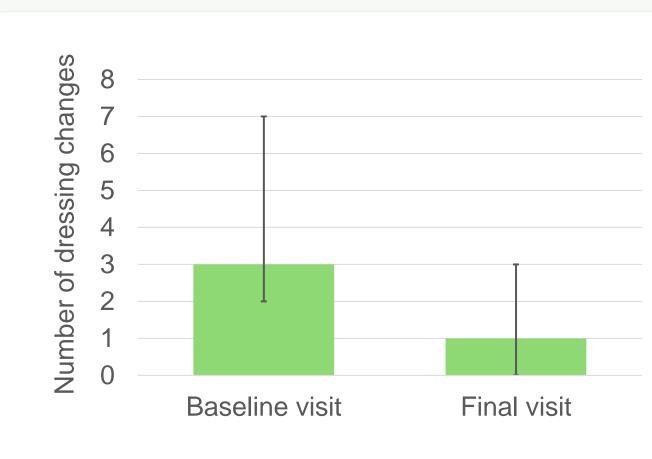
### Results

#### **Baseline patient and wound characteristics:**



- → 37 patients (female 54.1%, male 45.9%)
- $\rightarrow$  Age range: 30 to 90+ years (82.1% 70-89 years).
- → Category 2 pressure injury (24.3%) and venous leg ulcer (18.9%) most common wound types.
- → Wound area (cm²; median [minimum- maximum]): 6.3 [0.20-65.97]

	Wound characteristic (n=37)	%
Duration:	Unknown, but > 4 weeks	2.7
	1-3 months	54.1
	>3 – 6 months	24.3
	>6 - 12 months	8.1
	> 1 year	10.8
Depth:	Superficial	59.5
	Deep	40.5
xudate	Low	24.3
amount:	Moderate	62.2
	High	13.5



#### PRIMARY OUTCOME

The median number of dressing changes in the 7 days before the baseline visit was 3, while at the final visit (after dressing switch), it was 1.

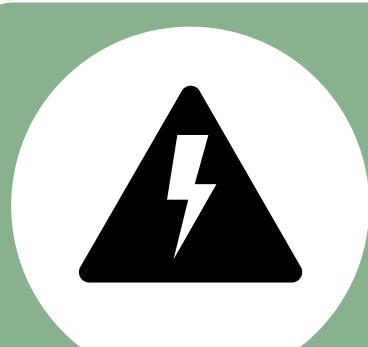
Data presented as median (maximum; minimum) values. \*Differences between baseline and final visit are statistically significant: Wilcoxon signed rank test 0.0000; sign test: 0.0000

## 



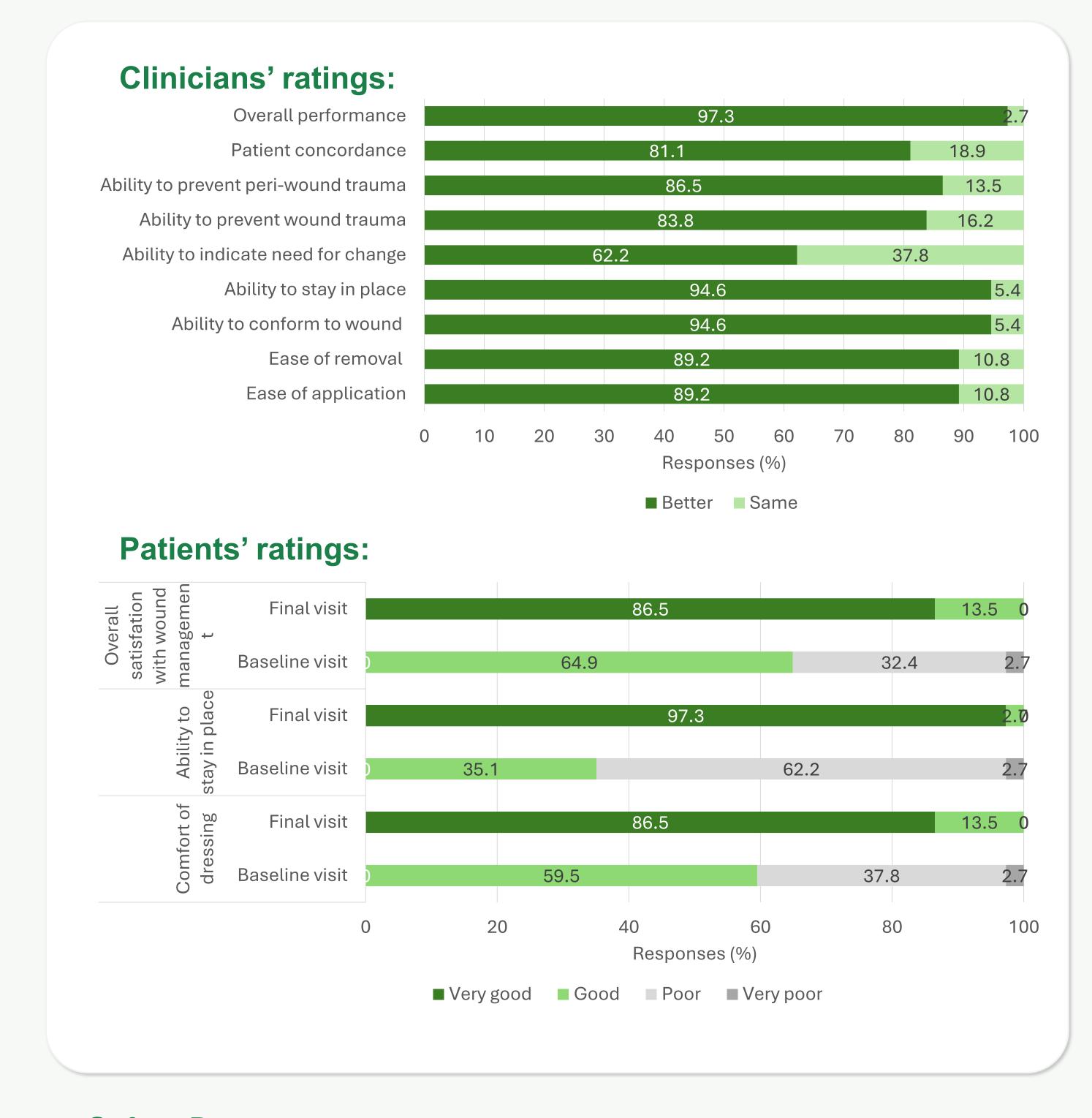
## Wound healing

- 50% reduction in wound area in 4 weeks in 75% of patients
- 68.7% reduction from baseline to final visit
- 32% wounds healed by final visit



#### Pain severity scores

 Reduction in pain severity before and during dressing change from 3.1 and 3.3 at baseline to 1.1 and 0.5 at final visit



#### **Safety Data:**

No dressing-related adverse events observed.

## Conclusions

- Introduction of a high-quality bordered foam dressing, supported by an educational programme for clinical staff, resulted in a prolonged interval between dressing changes and an overall reduction in dressing-related costs.
- Clinical performance data suggest that this approach can also positively impact wound outcomes.

These findings highlight the potential benefit of dressing regime improvements in delivering value-based wound care.

**Reference:** 1. Raepsaet C et al. Clinical research on the use of bordered foam dressings in the treatment of complex wounds: a systematic review of reported outcomes and applied measurement instruments. *J Tissue Viability.* 2022;31(3):514-522.

\*Mepilex® Border Flex, Mölnlycke Health Care.

Mölnlycke Health Care sponsored this clinical study.

EWMA Conference; 26-28 March 2025 (Barcelona, Spain). Poster ID: ENG843