

# AN EXPERIENCE WITH PAEDIATRIC BURN WOUNDS TREATED WITH A PLANT-DERIVED WOUND THERAPEUTIC

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## OBJECTIVE/METHOD

Secondary intention healing is commonly considered painful with a high infection rate, and therefore requires extensive care, and possibly results in inferior cosmetic outcomes. The aim of this study was to observe the efficacy of  in different types of paediatric burns. A retrospective review was conducted over the complete healing course of **9 paediatric patients** with a mean age of  $8.17 \pm 3.35$  (1–11 years), presenting mixed, partial or full-thickness second degree burns.

## MAIN RESULTS

TEST PARAMETER	OPEN HEALING 	OPEN HEALING (LITERATURE)
Mean wound size	$50.76 \pm 48.32 \text{ cm}^2$ (4.63–132 cm <sup>2</sup> )	na
Time to healing	$16.6 \pm 4.69$ days (10–22 days)	15–21 days
Complications (wound infection)	none	common
Pain at treatment start	7–8 out of 10	>5
Pain after one week	0 out of 10	>5

## CASE REPORT

10-year-old boy with burn wound presenting partial failure of the skin graft



DAY 1 Surgical debridement and start using 



DAY 1 Wound after surgical debridement



DAY 7 Rapid granulation and epithelialization



DAY 14 Almost complete wound closure with a good cosmetic outcome

## CONCLUSION

Susanna Mainetti, MD

*“One of the most important aims when treating paediatric burn patients is to alleviate their pain as much as possible. The burn pain and wound care procedures often increase burn patients’ anxieties, which exacerbates their perception of pain. This is especially true for children, who, owing to their fear of pain, typically experience a high level of anxiety before and during burn wound care treatment.”*

*“The most remarkable clinical implications of this study finding are related to the possibility to reduce the use of topical antimicrobials/disinfectants without exposing the patients at risk of infective complications, while at the same time obtaining pain relief and a high quality cosmetic outcome.”*