

# A WOUND THERPEUTIC FOR COST-EFFECTIVE TREATMENT OF POST-SURGICAL SCALP WOUNDS WITH EXPOSED BONE

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## OBJECTIVE/METHOD

To evaluate the efficacy and cost-effectiveness of ① in secondary intention healing of scalp wounds with exposed bone. **15 consecutive patients** with a scalp wound with exposed bone, following the excision of skin tumors were analysed retrospectively. The mean wound sizes of the 15 patients with a mean age of 76.87±10.3 years (59-90 years) where 10.9±6.84 cm<sup>2</sup> (0.4-22.6 cm<sup>2</sup>) with 4.8±5.9 cm<sup>2</sup> (0.3-20.7 cm<sup>2</sup>) of exposed bone.

## MAIN RESULTS

TEST PARAMETER	OPEN HEALING ①	FASCIA LATA (LITERATURE)	NPWT (LITERATURE)	COLLAGEN MATRIX (LITERATURE)
Number of patients	15	5	14	33
Mean days to wound healing	56.7	48.1	34.7	21.4
Meant total cost (EUR)	423.73	1,612.82	4,411.80	1,503.72
Meant total cost per day (EUR)	7.47	30.26	110.3	56.32

## CASE REPORT

86-year-old female with a 22cm<sup>2</sup> scalp wound with 15.2 cm<sup>2</sup> of exposed bone.



DAY 1 Treatment start after skin graft failed to take



DAY 11 Clean wound, visible induction of granulation tissue growth



DAY 30 Wound/exposed bone completely covered with granulation tissue



DAY 92 Complete wound closure with a good cosmetic outcome

## CONCLUSION

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«Secondary intention healing has been considered to be painful, risking a high infection rate and requiring extensive care, but this is not substantiated in literature.»

«None of the 15 patients had clinical signs of infection and none of them reported severe pain. By week 2, areas of exposed bone in 7 of 15 (47%) patients had already been covered by granulation tissue, thus significantly and quickly reducing the risk of complications in the bone, with areas of exposed bone fully covered in 11 of 15 (73%) cases by week 4.»

«The study indicates a substantial potential for cost saving.»