

INTRODUCTION

Achieving high-quality scar healing is a key expectation for patients. Scar massage with an appropriate and adapted formula is often recommended by surgeons or dermatologists to enhance aesthetic outcomes.

The objective of this study was to evaluate the tolerance and efficacy of a new massage gel containing a bacterial extract called *Aquaphilus dolomiae*, dimethicone and hyaluronic acid.

METHODOLOGY



Targeted population: 54 subjects included aged 12 to 64 years



19% men
81% women



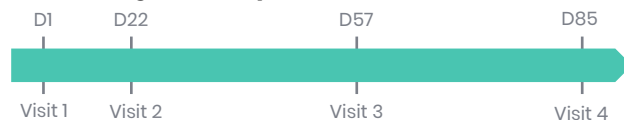
100% with recent red and re-epidermised scars



Methods of product application : 2x a day ; on the scar(s) under study ; application with specific **massage technique**



Visits: monitored over 3 months



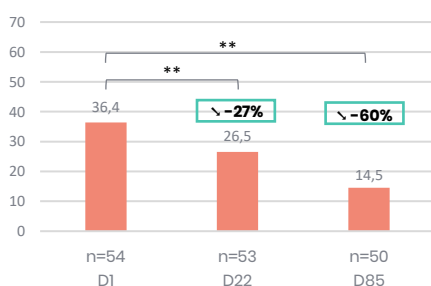
Assessments at each visit:

- Tolerance
- Patient and Observer Scar Assessment Scale [**POSAS**];
- Discomfort sensation (11-point NRS) by subject;
- Instrumental assessment of erythema by **spectrophotometer**;
- Cosmetic acceptability and perceived efficacy questionnaire by subject

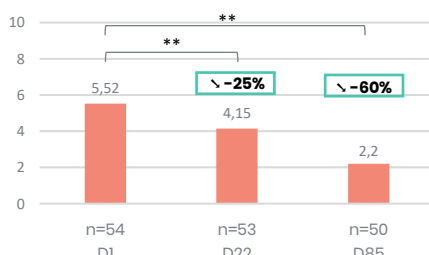
RESULTS

****p<0.001(HS)**

Global Score – POSAS **Observer** scale



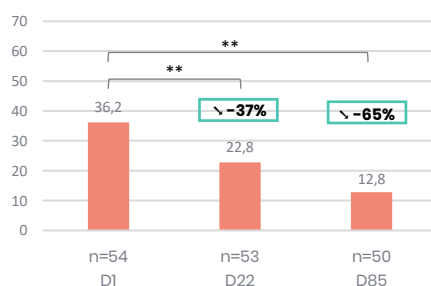
"Pigmentation" Sub-parameter – POSAS **Observer** scale



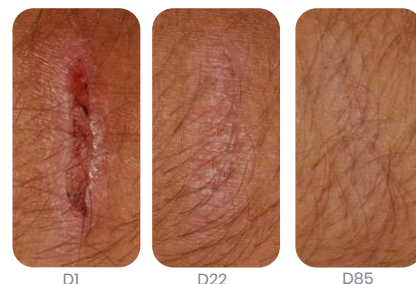
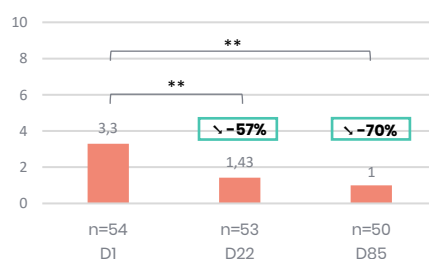
"Relief" Sub-parameter – POSAS **Observer** scale



Global Score – POSAS **Patient** scale



"Pain" Sub-parameter – POSAS **Patient** scale



Post-surgery scar – Forearm
Best visual effect

Clinical Scar Assessment Improvements

- ✓ Very good cutaneous tolerance
- ✓ Highly significant decreases in investigator and subject POSAS scores (global and sub-parameters) from 3 weeks to 3 months
 - Highly significant decrease of scar thickness of -28% after 3 weeks and -60% after 3 months
 - Highly significant decrease of perceived itch of -62% after 3 weeks and -71% after 3 months
- ✓ Highly significant decreases in discomfort sensations perceived by subject (-38% at D22 ; -77% at D85)
- ✓ Severity of erythema reduced significantly from 3 weeks (-26%) to 3 months (-62%)
- ✓ 98% of the subjects satisfied with the product after 3 weeks of use and 100% after 3 months.

CONCLUSION

The tolerance and efficacy results of this study suggest that this massage gel may be beneficial in improving the aesthetic outcomes of immature scars and their related discomforts (pain, pruritus) in both adults and adolescents.