

EVALUATION OF THE TOLERANCE AND EFFICACY OF A SHAMPOO AND A SPRAY CONTAINING POLIDOCANOL IN PATIENTS WITH ANTI-CANCER TREATMENT AND SUFFERING OF TRICHODYNIA AND SCALP DISCOMFORT SENSATIONS.

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INTRODUCTION

Trichodynia refers to the painful sensation of the scalp associated with pruritus, burning and tightness sensations is a syndrome currently related to the anti-cancer treatment. Temporary gentle cosmetic care can be useful for relieving these unpleasant scalp sensations. The aim of this study is to assess a shampoo, and a spray used alone or in combination on scalp discomfort in patients with cancer treatment. Previous clinical studies have demonstrated that spray and shampoo containing polidocanol are very well tolerated and have a significant efficacy on reducing intensity symptoms of scalp discomfort in adults with reactive scalp.

MATERIAL & METHODS

POPULATION

- 33 patients, aged 20–82 years old
- 19 of participants are **currently undergoing systemic cancer treatment**
- 14 of participants **previously received systemic cancer treatment**

CONCOMITANT TREATMENTS (N=19)

- Targeted Therapies** (N=8) : *Imatinib, Trastuzumab, Pertuzumab, Panitumumab, Cetuximab, Inlyta*
- Chemotherapy** (N=5) : *Camitotic, Paclitaxel*
- Immunotherapy** (N=2) : *Pembrolizumab*
- Hormonal Therapy** (N=2) : *Leuprorelinum, Tamoxifen*
- Radiotherapy** (N=3)

MAIN INCLUSION CRITERIA

- Total sensitivity 3S score** ≥ 4 at inclusion
- Itching score** ≥ 4 within 72h prior to inclusion and **pruritus score** ≥ 2 (NRS scale 0–10)
- Subject with a general state of clinical and/or physical health adequate for the study in the opinion of the investigator, with a **score ≤ 2 according to the WHO (World Health Organisation) 5-point** “performance status” scale

EVALUATION CRITERIA

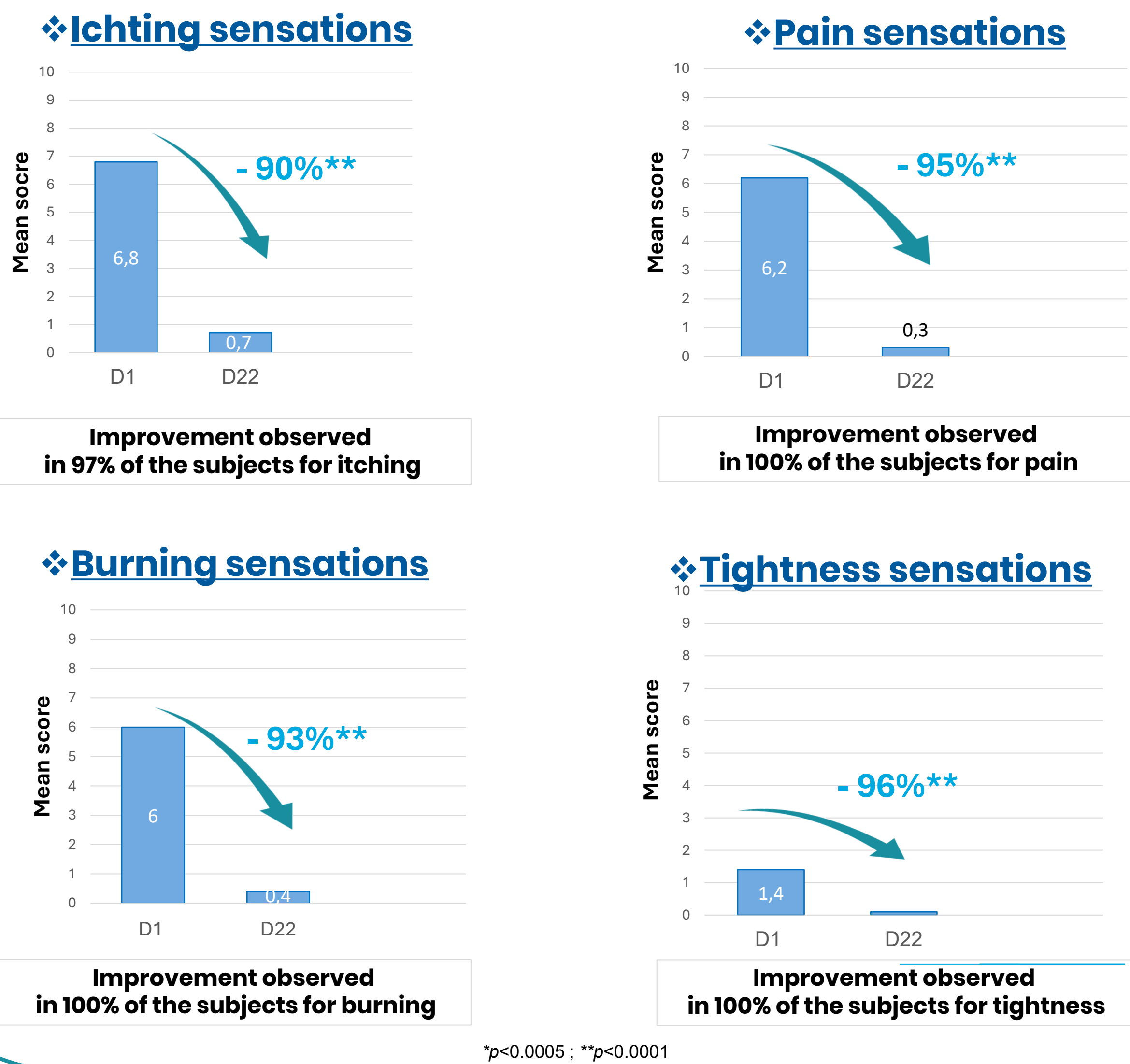
- Cutaneous tolerance** by DTO
- Self assessment **3S Scale** (Sensitive Scalp Score) rated in 5 levels (0–4) for itching, prickling, tightness, burning, pain (Misery & al.) at **D1 and D22**
- Self assessment **VAS Score** (0–10): pruritus, tingling, tightness, burning, pain, comfort, dryness daily **between D1 and D7 then to D22**
- Cosmetic **acceptability** and **perceived efficacy** assessment.
- Visit at D1, D1 immediate and at D22

FREQUENCY OF APPLICATION

- Shampoo**: as often as necessary
- Spray**: at least twice a day

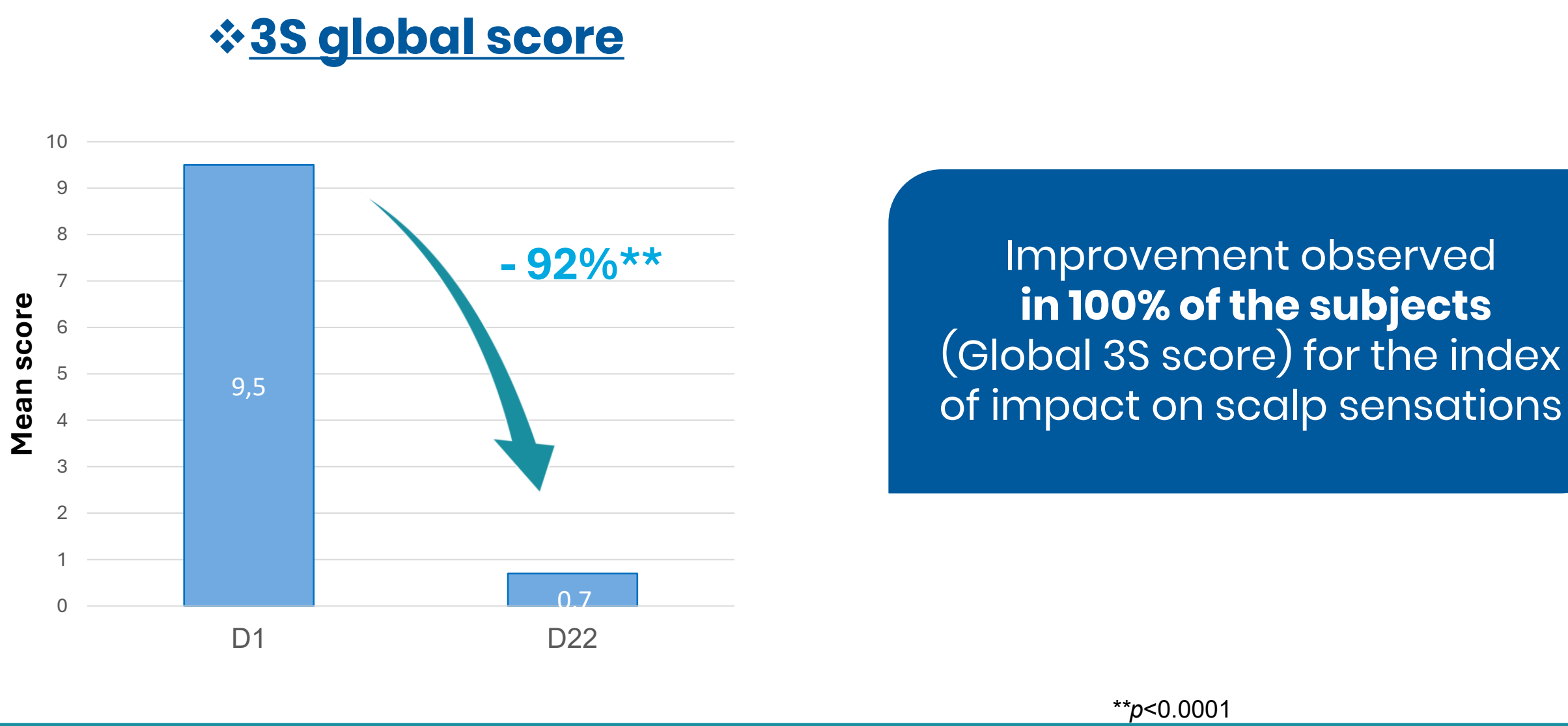
RESULTS

EVALUATION OF THE SCALP DISCOMFORT SENSATIONS



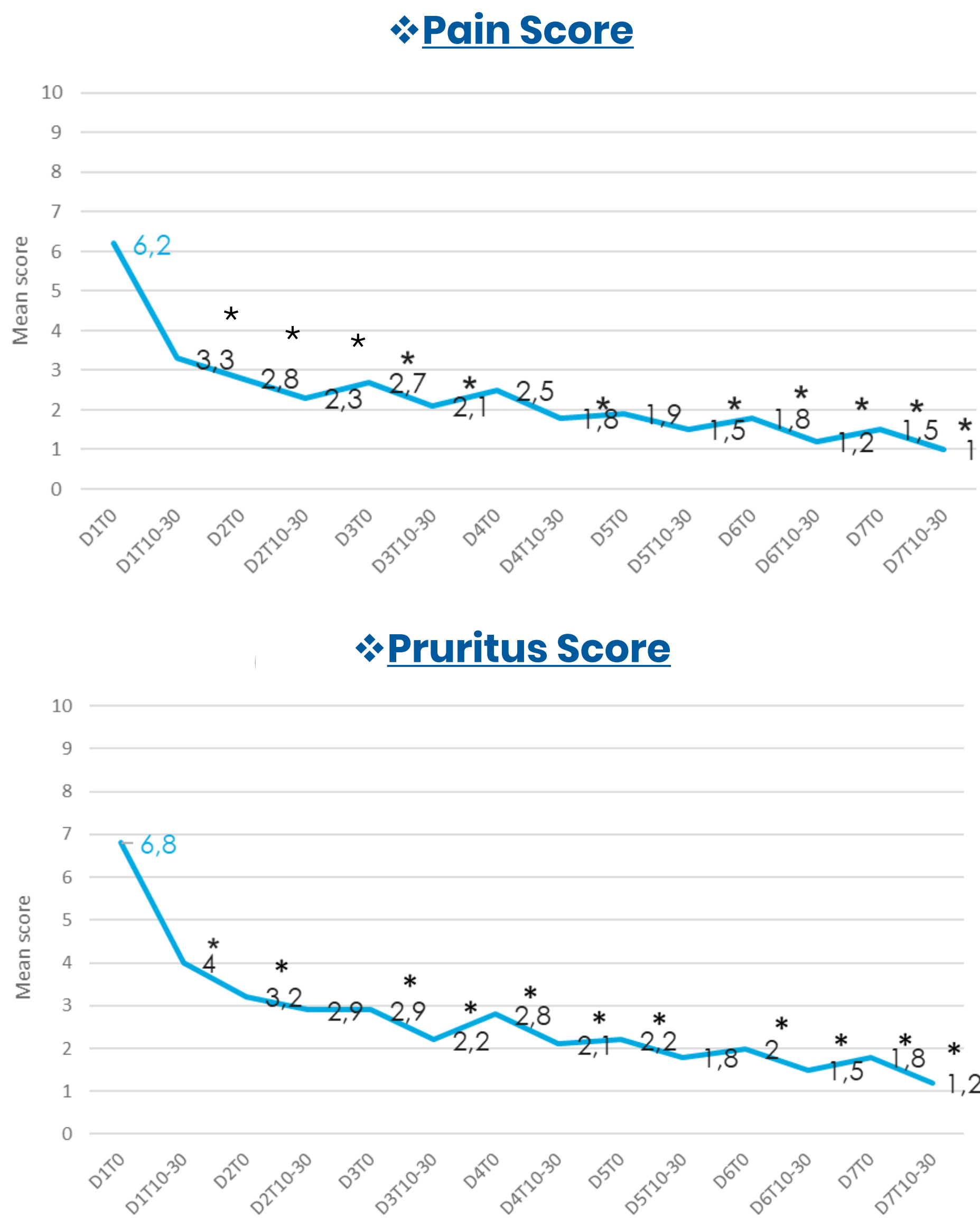
Significant decrease of the intensity of scalp discomfort sensations after 21 days of use.

EVALUATION ON SCALP SENSITIVITY BY GLOBAL 3S SCORE



Significant 92% reduction on scalp sensitivity after 21 days.

EVALUATION OF DAILY PAIN AND PRURITUS DURING THE FIRST WEEK (SPRAY ONLY)



Daily pain and pruritus assessments, before (T0) and after application (T10–30 min) over a 7-day period.

These findings indicate a significant reduction in discomfort from the first application through Day 7.

Cosmetic acceptability

- Cosmetic qualities and efficacy of the product were **appreciated by the subjects** (very good product's acceptability on hair and scalp).

Tolerability

- Cutaneous tolerance was **assessed as very good by the Dermatologist**.

CONCLUSION

Our study's results show that the shampoo and spray containing polidocanol has beneficial effects for relieving the unpleasant scalp sensations and trichodynia in patients with cancer treatment. We conclude that the accompaniment with dermo-cosmetic hair care in cancer treatment has its importance during the establishment of the treatment strategies.