

Helena Polena, Armonie Buisson, Benoit Cadars, Pauline Chanut, Margaux Fortin, Noëlle Remoué, Elodie Valin, Nathalie Ardiét, Elodie Prestat-Marquis.

NAOS Les Laboratoires - Bioderma, Lyon, France

INTRODUCTION

Sensitive Skin Syndrome (SSS) is a common skin condition defined by the occurrence of **unpleasant sensations** in response to stimuli that normally should not provoke such sensations. It can significantly impact patients **quality of life**, as symptoms occur immediately following exposure to triggering factors. Taking care of sensitive skin is therefore **essential**, beginning from the **cleansing stage**.

MATERIALS & METHODS

Three clinical studies were performed to evaluate the skincare benefits of an **ecobiological leave-on micellar solution (MS)** (Bioderma, Sensibio H2O) applied on a cotton-pad :

- **20 subjects** aged from 26 to 72 years old with sensitive skin used MS on their face twice daily for 28 days. **Hydration** was measured by corneometry on 10 points distributed on each split-face at D0 and D28 after rinsing or leaving MS, randomly. Values were projected onto an average face model to create a hydration map comparing the **rinse-off** and **leave-on** conditions of MS. (single blind study)

- **31 subjects** aged from 18 to 66 years old with phototype I to IV, **sensitive** skin (stinging score ≥ 3) and **allergic** skin used leave-on MS on their face twice daily for 21 days.

Tightness, stinging, itching and burning sensations were self-graded by subjects and cutaneous tolerance was evaluated by a dermatologist at D0 and D21. (double blind study)

- **378 subjects** in 7 countries, across 4 continents, including pregnant and breastfeeding women, aged from 18 to 75 years old with phototype I to VI used MS twice daily for 21 days. All of them have self-declared sensitive skin, confirmed through an evaluation of the **11-point sensitive scale** (SS-10 ≥ 5) and reported a significant burden on their quality of life.



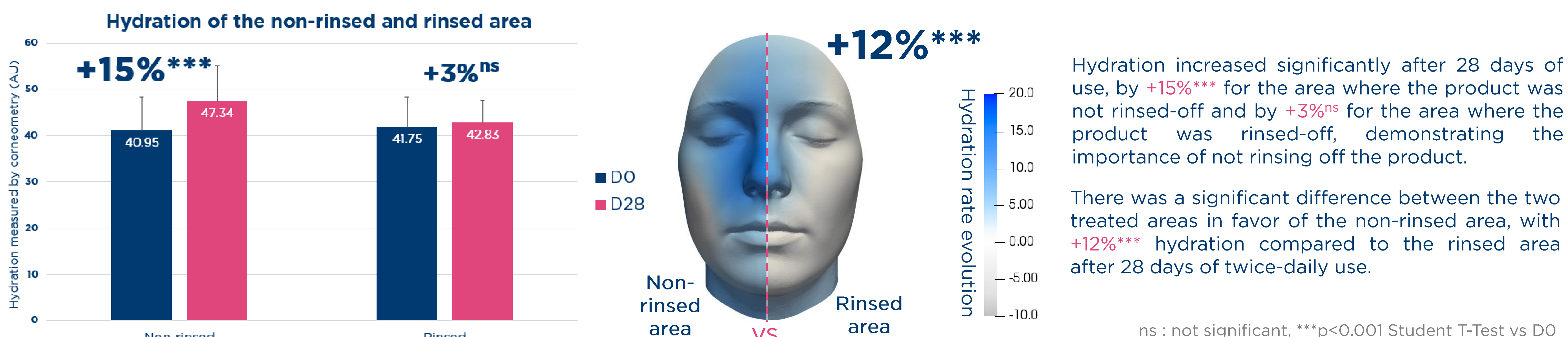
The impact on **quality of life (QoL)** was assessed by the **Burden Of Skin Sensitivity (BoSS)** questionnaire at inclusion (D0) and D21.

Adverse events were reported by the subjects during the study if noticed (open intra-individual study).

RESULTS

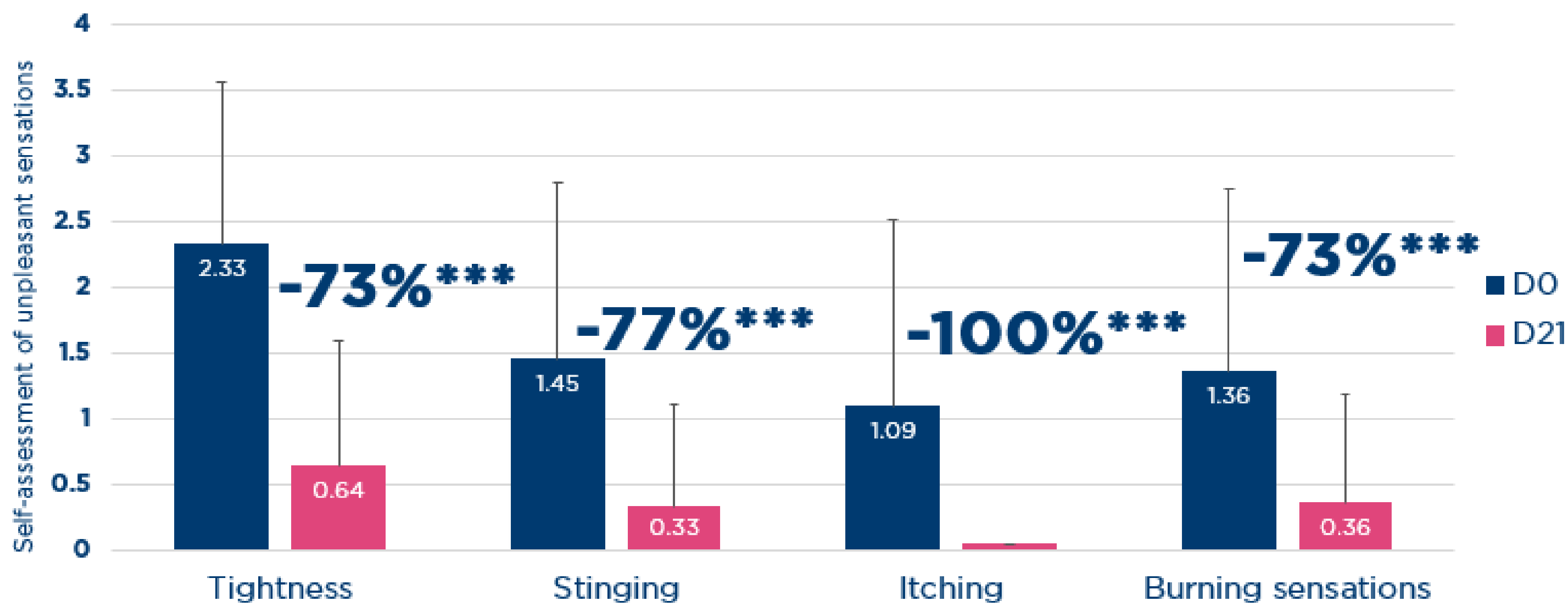
HYDRATES THE SKIN

A hydration map was created to compare **hydration variations** in different areas after 28 days of twice-daily use:



SOOTHES THE SKIN

Reduction of unpleasant sensations in sensitive and allergic skin



Unpleasant sensations was significantly improved after 21 days of twice-daily use of the micellar solution:

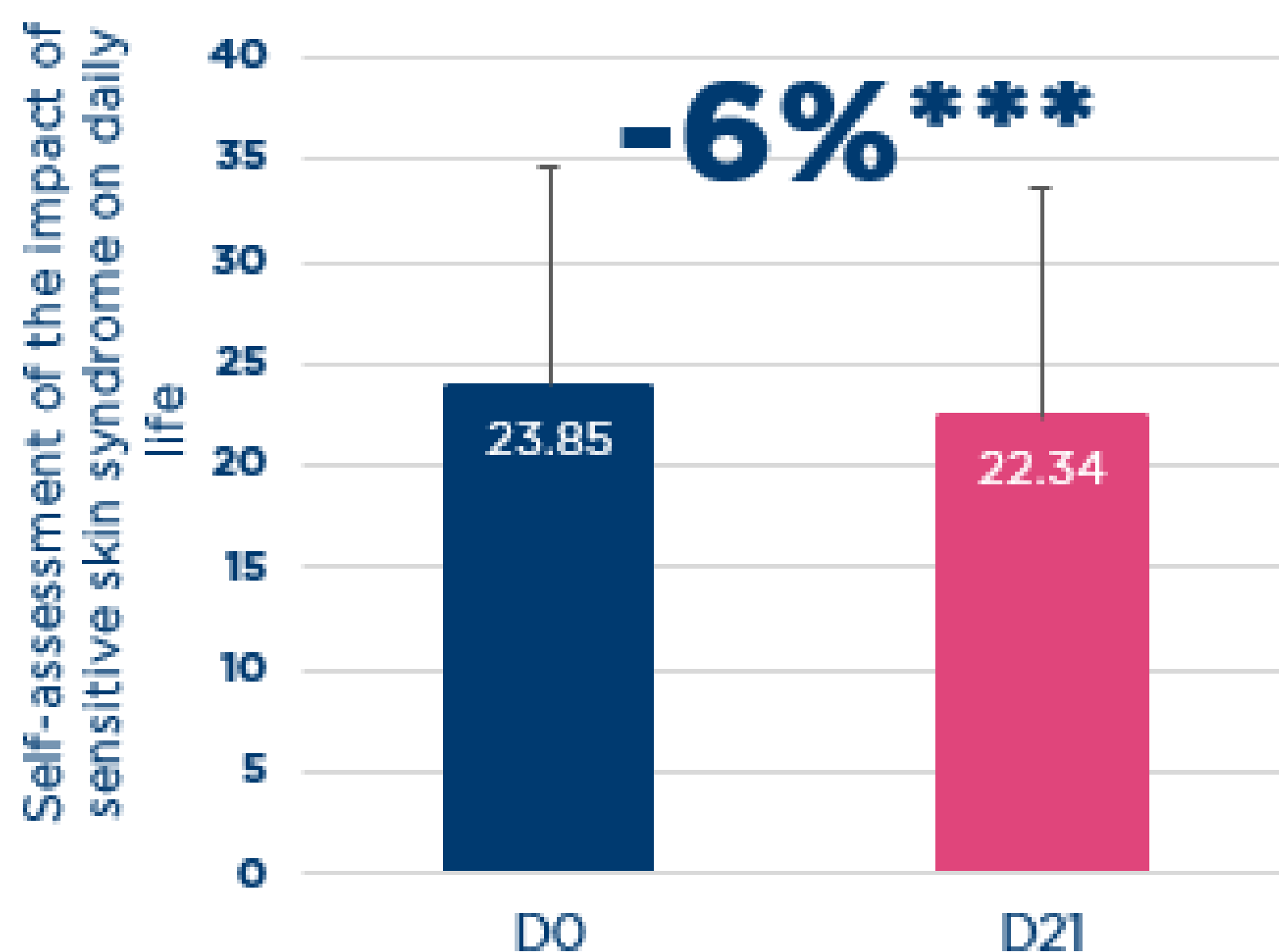
-79%* global discomfort score**

Very good skin and ocular tolerance of the product as determined by dermatologists.

***p<0.001 Wilcoxon test vs D0

IMPROVES QUALITY OF LIFE

BoSS total score

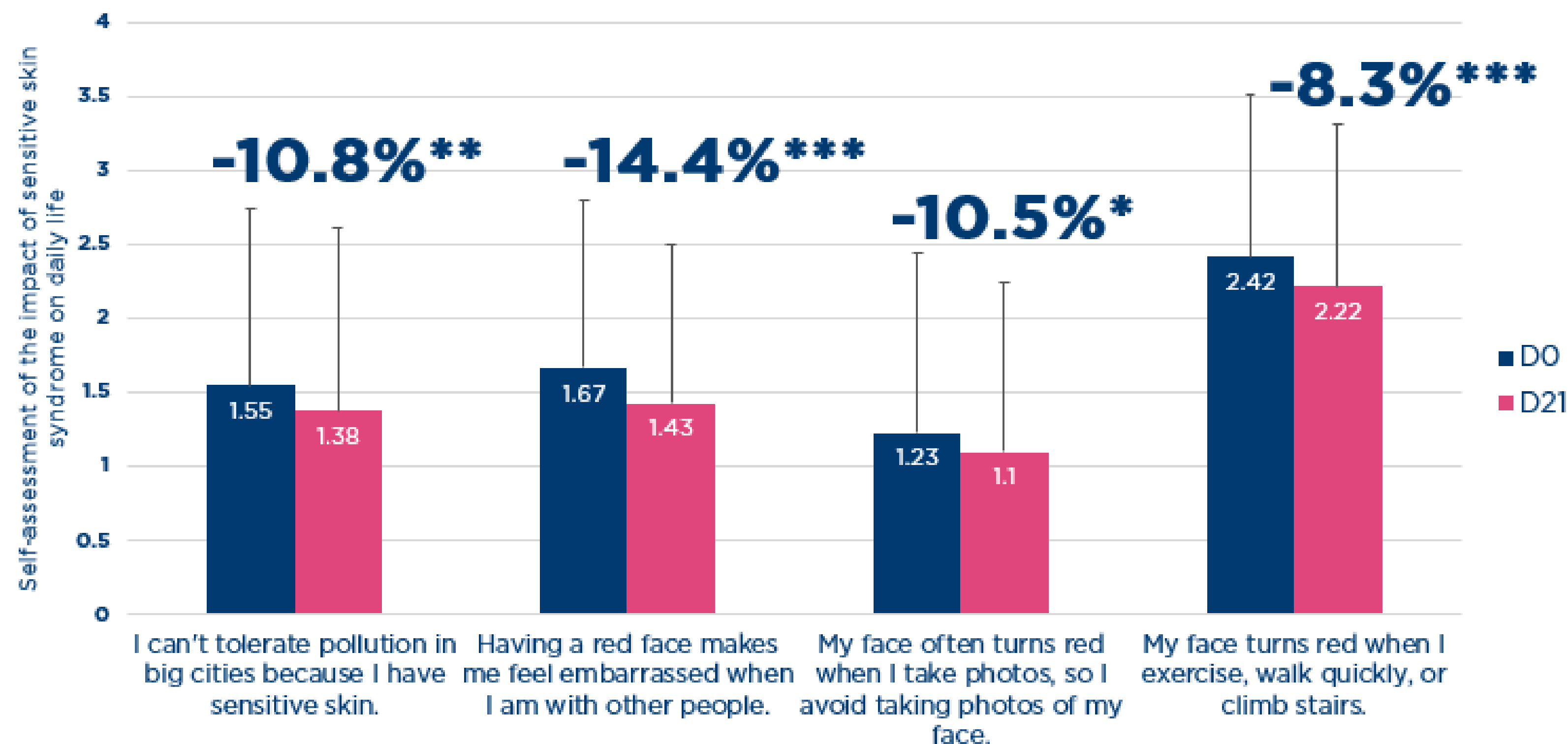


The impact of sensitive skin syndrome on daily life decreased on average by **6%***** and an improvement was observed in half of the subjects included (**50%**) after 21 days of using the micellar solution.

According to the BoSS questionnaire, **quality of life** was significantly improved after 21 days of using the micellar solution.

*p<0.05, **p<0.01, ***p<0.001 Wilcoxon Test vs D0

Impact on quality of life according to the BoSS questionnaire



CONCLUSION

Altogether, these studies demonstrated that the ecobiological leave-on micellar solution significantly **hydrates, soothes and reduces** the **Burden of Skin Sensitivity**, when not rinsed. They emphasize the importance of choosing the **most suitable cleanser** to **alleviate sensitive skin symptoms** and **impact on quality of life**.