

Efficacy and Tolerance of a Brightening Regimen for the treatment of hyperpigmented spots and skin brightness

Percec I. ⁽¹⁾ Valverde M. ⁽²⁾

(1) Division of Plastic Surgery, Department of Surgery, Hospital of the University of Pennsylvania (2) Evalulab Inc.

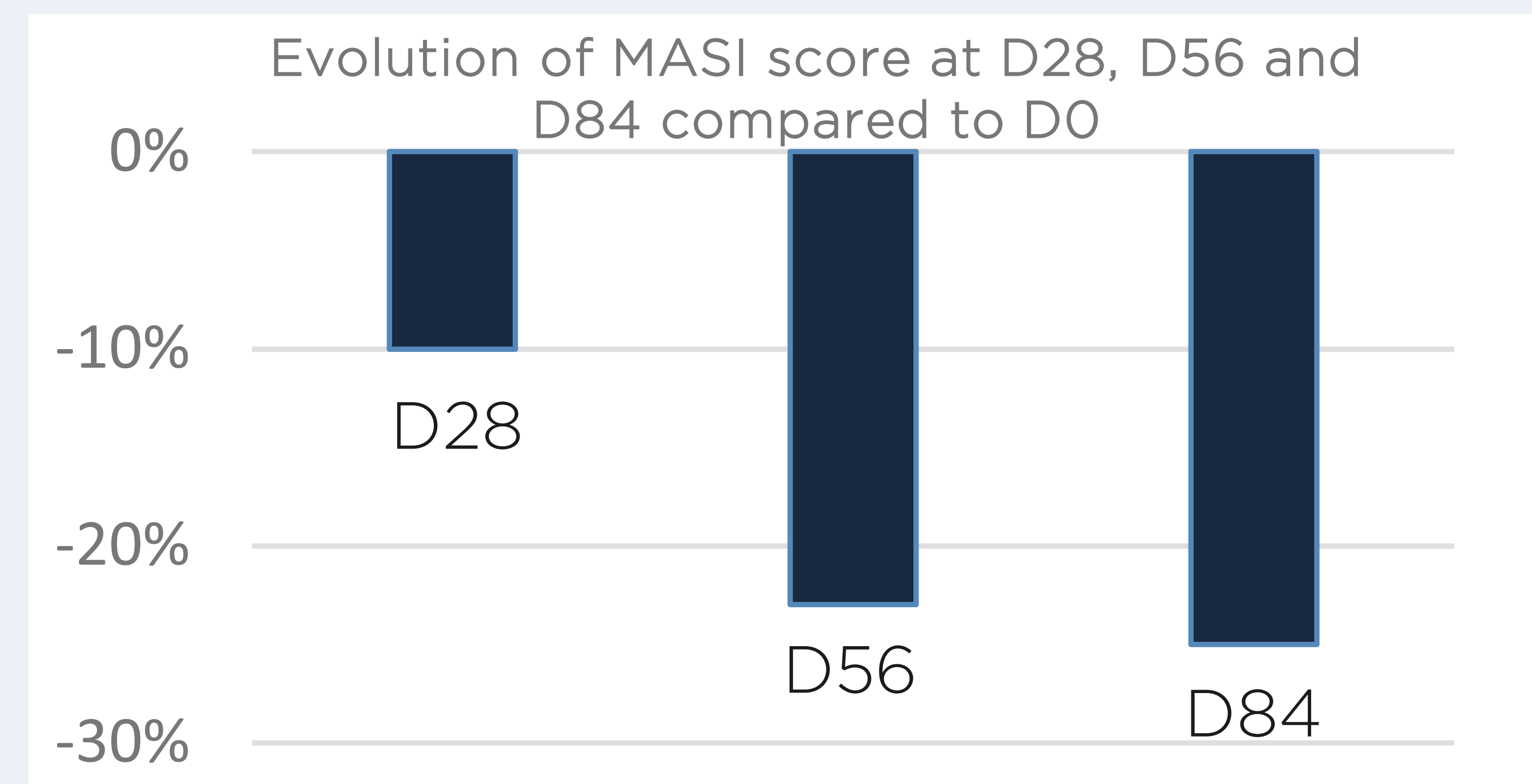
Objectives:

- Assess the effectiveness and tolerance of a brightening regimen with a brightening complex containing 12% azelaic acid and 3% glycolic acid.
- Evaluate consumer acceptance and tolerance to the tested treatment under normal conditions of use.

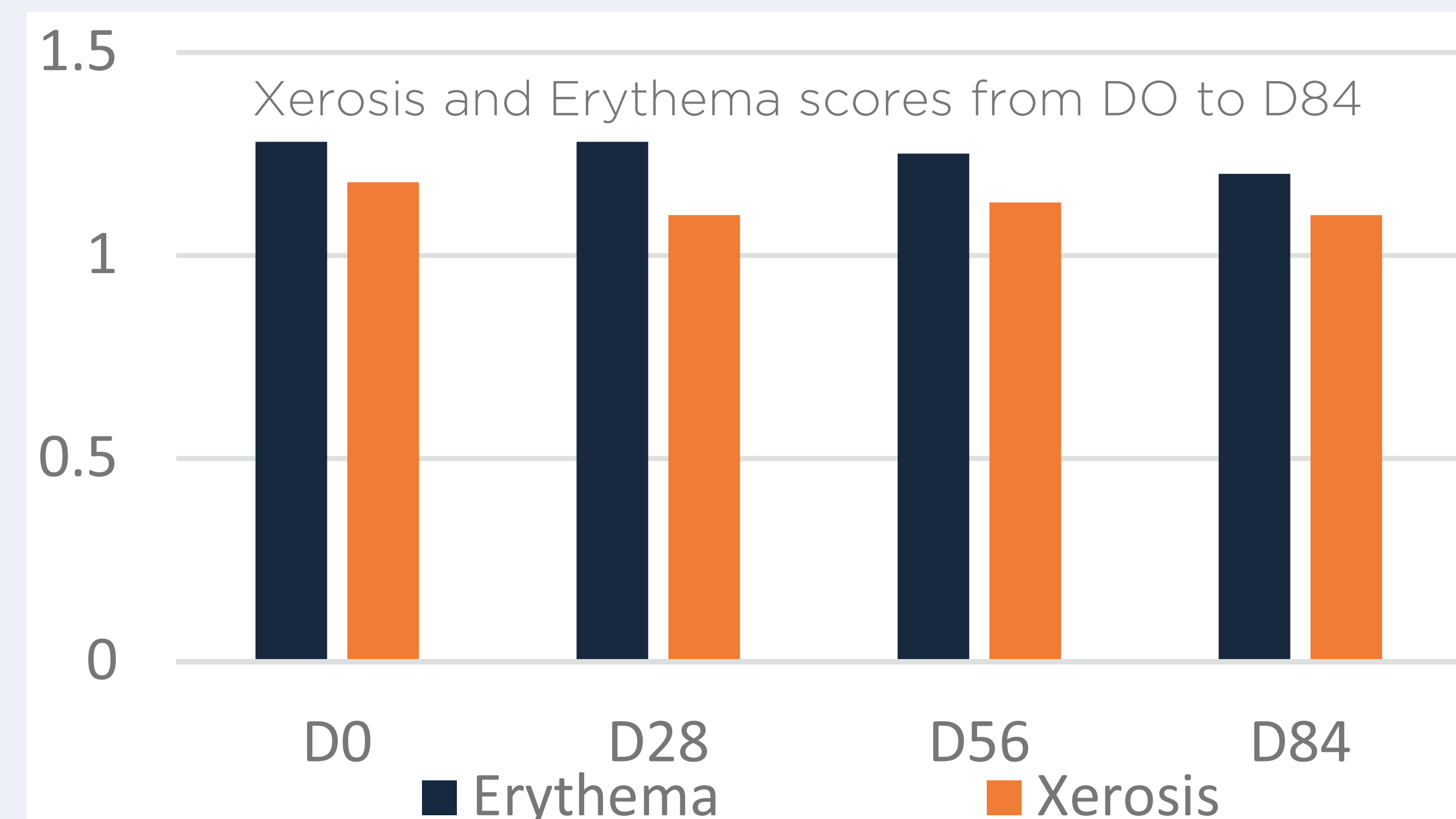
Methods:

- Monocentric open-label study including 20 healthy female volunteers, from 37 to 78 years of age (Average Age = 56).
- The treatment was composed of: Enhance Broad Spectrum; Brightening Complex containing 12% azelaic acid, 3% glycolic acid; Cleansing gel containing 4.7% glycolic acid; Night Renewal Cream and Sunscreen Broad Spectrum SPF40.
- The primary parameters were MASI scoring and tolerance (Erythema and Xerosis).
- Secondary parameters were the self-evaluation questionnaire and image analysis. Analysis of skin tone evenness and brightening were performed by using Image-Pro Plus Analysis Software (Media Cybernetics, USA).

Results:



At D56 and D84, statistical analysis demonstrated a significant improvement of 23% (D56) to 25% (D84) in the appearance of melasma.



Statistical analysis performed on Erythema and Xerosis scores did not demonstrate any significant difference between results obtained at D0 and visits on D28, D56 and D84. Based on the Erythema and Xerosis scores the tested regimen may be considered well tolerated.



Image Analysis:

Statistical analysis of the data demonstrated a significant reduction of hyperpigmented spots at Day 56 (42%) and Day 84 (49%), of skin tone brightness after 28 days by 25% and an increase in skin tone evenness at Day 84 by an average of 10%.

Self-Evaluation Questionnaire:

After 84 days of using the regimen, 80% to 85% of volunteers recognized smoother, softer skin and noticed a reduction in the appearance of their brown spots and imperfections. A significant proportion of participants noticed a more hydrated, suppler skin and radiant complexion.

Conclusion:

- After 84 days, the tested regimen can be considered as an effective brightening treatment, with statistically significant improvements in melasma, hyperpigmented spots, skin tone evenness and skin tone brightness.
- The brightening regimen was tolerated and well appreciated by the volunteers for various subjective parameters such as sensory attributes, improvement of overall skin condition and reduction in the appearance of brown spots and imperfections.