Poster ID – **P0484**

Topic: Corrective, aesthetic and cosmetic dermatology, lasers

Clinical Efficacy of a MultiBenefit SPF 80 Sunscreen with Antioxidant, AntiAging, and Oil Control Ingredients: Skin Quality Improvements in a Broad Adult Population with Stratified Outcomes in Younger and Mature Skin

Debora Felix[1], Isabelle Rennó[1], Lucas Porta[1], Cinthia Satake[1], Maria Carolina Semprini[1], Flavia Addor[2]

[1] Kenvue Brands LLC, São José dos Campos, Brazil, [2] MEDCIN - Skin Institute, Sao Paulo, Brazil

Introduction

Oily skin is highly prevalent in Brazil, yet there is limited scientific literature connecting oiliness, hydration balance and photoaging within photoprotection research. This gap reinforces the need for clinical and instrumental data supporting sunscreens aimed at improving skin quality across age groups. In this context, a prospective clinical study with broad phototype range conducted under normal daily UV exposure in Brazil evaluated the clinical and perceived efficacy an SPF 80 facial sunscreen containing a high concentration of anti-oxidant, anti-aging, and oil-control ingredients, applied twice daily for 56 days. The primary objectives were to determine efficacy on aging signs and reduction in skin oil/shine, while assessing instrumental evidence of oiliness reduction, hydration and skin barrier maintenance. An exploratory objective was to examine whether efficacy differed by age group.

Materials and Methods

This was a single-arm clinical study in adults with oily skin and early-to-moderate facial aging according to dermatological assessment (N=73; 30–55 years; phototypes I–VI; multiethnic distribution: 45.2% White, 34.3% Brown, 20.5% Black). Participants applied the SPF 80 sunscreen twice daily (morning and midday) for 56 days. The product offers broad-spectrum UVB, UVA, long-UVA, and visible light protection, combined with a high concentration of anti-oxidant (Feverfew), anti-aging (Niacinamide and Neoglucosamine), and oil-control (SepicontrolTM) ingredients. Clinical grading assessed pores, shine, texture/roughness, global wrinkles, fine lines, and firmness. Instrumental measurements included Sebumeter®, Corneometer®, Tewameter ® and Cutometer®. ColorFace® imaging evaluated shine reduction, and perceived efficacy was collected. Primary analyses compared Days 28 and 56 with baseline in age-stratified (30–44; 45–55) and combined groups using paired tests (α=5%).

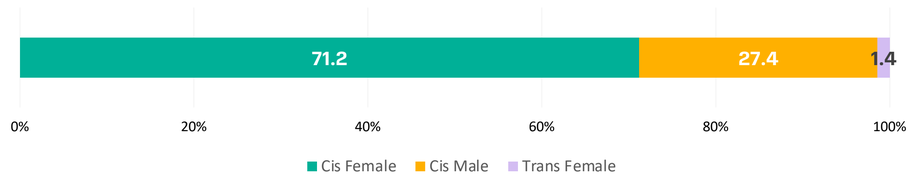
Inclusion Criteria & Demographics

Full Population (n=73) | Group 1: 30 – 44 y.o. (n=39) | Group 2: 45-55 y.o. (n=34)

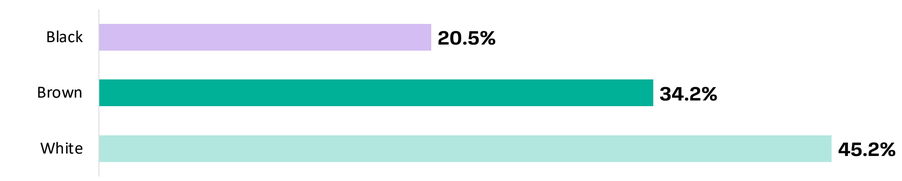
Full Population

Mean Age | 43 y.o.

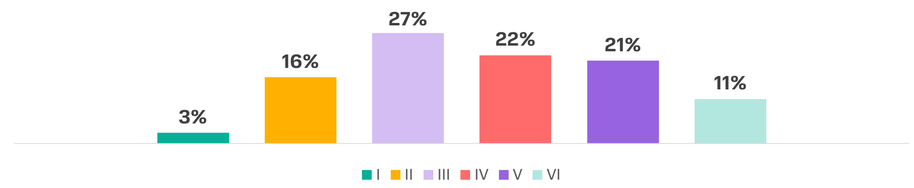
Gender (%)



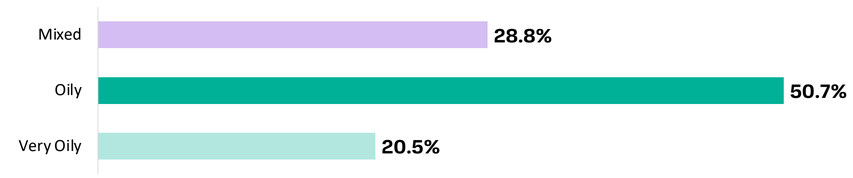
Ethnicity according to Brazilian Institute of Geography and Statistics (IBGE)



Phototype



Skin Type

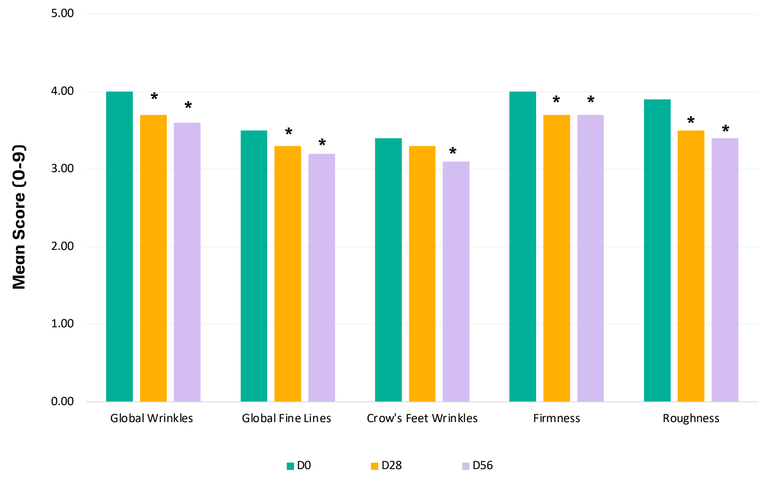


Signs of Aging Results

Full population assessment (n=73) via Expert grader evaluation

↓ **6%** Global Wrinkles (p<0.001)
↓ **5%** Global Fine Lines (p=0.010)
↑ **8%** Firmness (p<0.001)
↓ **11%** Roughness (p<0.001)
D28

↓ **9%** Global Wrinkles (p<0.001)
↓ **8%** Global Fine Lines (p=0.002)
↓ **6%** Crow's Feet Wrinkles (p<0.001)
↑ **9%** Firmness (p<0.001)
↓ **14%** Roughness (p<0.001)
D56



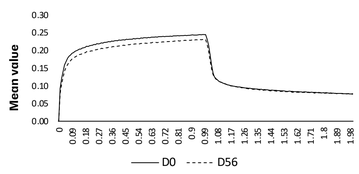
Expert Grader Assessment was performed by a Dermatologist that evaluated the skin condition before (D0) and after the product continuous usage (D28 and D56)

Note: The scale was built so a reduction would be an improvement of the parameter, i.e. for wrinkles, fine lines and roughness 0 is none and 9 is severe. For firmness we consider the loss of firmness, so 0 is a firm skin and 9 severe loss of firmness

Instrumental assessment - via Cutometer

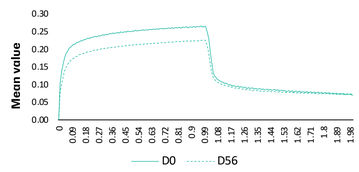
Full population (N=73)

↑ **13%** Skin Firmness with 69% of participants showing improvement (p=0.004)



Group 1 (N=38)

↑ **23%** Skin Firmness with 81% of participants showing improvement (p<0.001)



Note: Cutometer parameter analyzed for skin firmness Uf (R0), which reflects the skin's maximum deformation

Perceived Efficacy (N=73) via self-assessment questionnaire

After **28 days** of product usage:

Question	Top 2 Box (%)
Visibly reduced wrinkles / expression lines	71.2%
Left my skin looking visibly younger	80.8%
Fills wrinkles / fine lines	74.0%

After **56 days** of product usage:

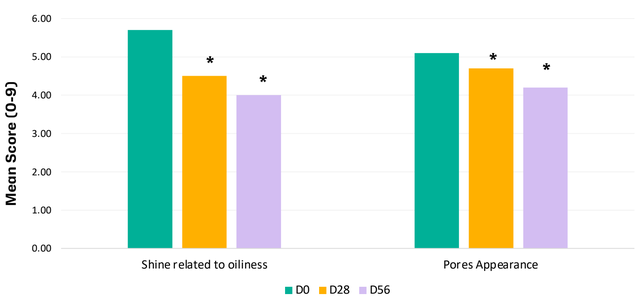
Question	Top 2 Box (%)
Visibly reduced wrinkles / expression lines	83.6%
Left my skin looking visibly younger	86.3%
Fills wrinkles / fine lines	76.7%
Firmer skin feeling	89.0%
Left my skin with a more uniform texture	94.5%

Oiliness Results

Full population assessment (n=73) via Expert grader evaluation

↓ **19%** Shine related to oiliness (p<0.001)
↓ **7%** Pores Appearance (p<0.001)
D28

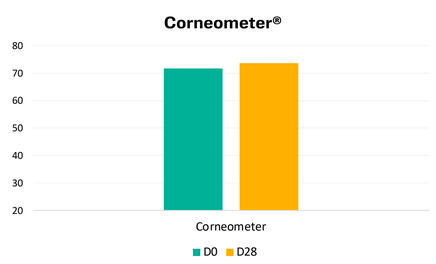
↓ **28%** Shine related to oiliness (p<0.001)
↓ **17%** Pores Appearance (p<0.001)
D56

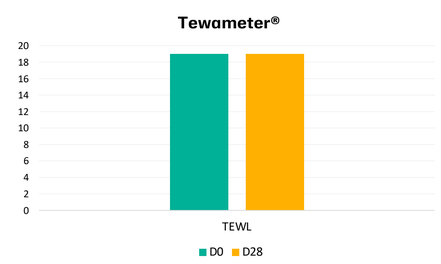


Expert Grader Assessment was performed by a Dermatologist that evaluated the skin condition before (D0) and after the product usage (D28 and D56)

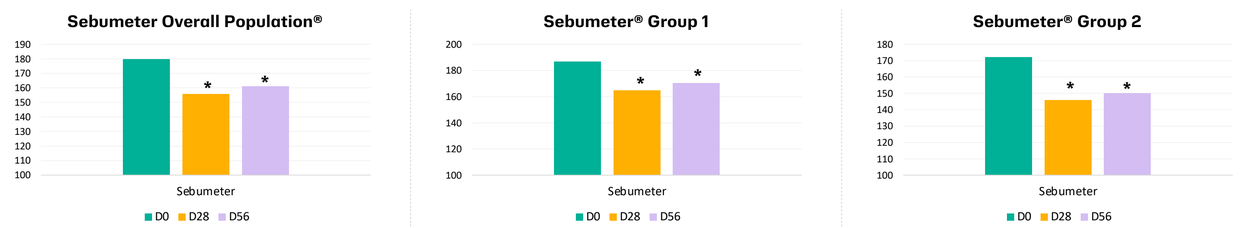
Note: The scale was built so a reduction would be an improvement of the parameter

Instrumental Assessment





Instrumental Assessment



The comparison between groups at each time point was not statistically significant. Furthermore, the differences between D28 and D56 within each group also showed no statistical difference.

Perceived Efficacy (N=73) via self-assessment questionnaire

Question	28 days	56 days
	Top 2 Box (%)	Top 2 Box (%)
Reduced the oiliness of my skin	93.2%	91.8%
Controlled the oiliness of my skin	93.2%	91.8%
Reduced the shine on my skin	87.7%	90.4%
Visibly reduced the appearance of pores	83.6%	86.3%
Controlled shine without rebound effect	79.5%	87.7%
It left no residue accumulated in my pores	87.7%	
Moisturized my skin	91.8%	97.3%
Does not sting the eyes	86.3%	

Best Case Images



015_Front_D0_pp | 015_Front_D28_pp | 015_Front_D56_pp

Conclusions

In a Brazilian multiethnic population with oily skin, a SPF 80 facial sunscreen combining broad-spectrum photoprotection with high concentrations of anti-oxidant, anti-aging, and oil-control ingredients delivered significant improvements in shine/oiliness and visible aging parameters, while maintaining hydration and skin barrier integrity. Overall, findings demonstrate that a high-SPF, multi-benefit sunscreen with complete solar protection (UVB, UVA, long-UVA, VL) and targeted ingredients provides consistent benefits across adult life stages, reducing shine and oiliness and improving aging parameters, reinforcing its relevance for oily-skin phenotypes in high-UV environments.

Disclosures: *This work was sponsored by Kenvue Brands LLC*

European Academy of Dermatology and Venerology (EADV), September 30– October 3, 2026, Vienna, Austria