

Efficacy and Tolerability of a Comprehensive Brightening Serum Plus a Dual Antioxidant System in Skin of Color Patients with Moderate to Severe Facial Hyperpigmentation

Seemal R Desai, MD¹; Shelly Manry, BA²; Elizabeth Makino, BS, CCRA, MBA²; Rahul Mehta, PhD²

¹ Department of Dermatology, The University of Texas Southwestern Medical Center, Innovative Dermatology, Dallas, Texas
² Allergan Aesthetics, an AbbVie Company, Irvine, CA

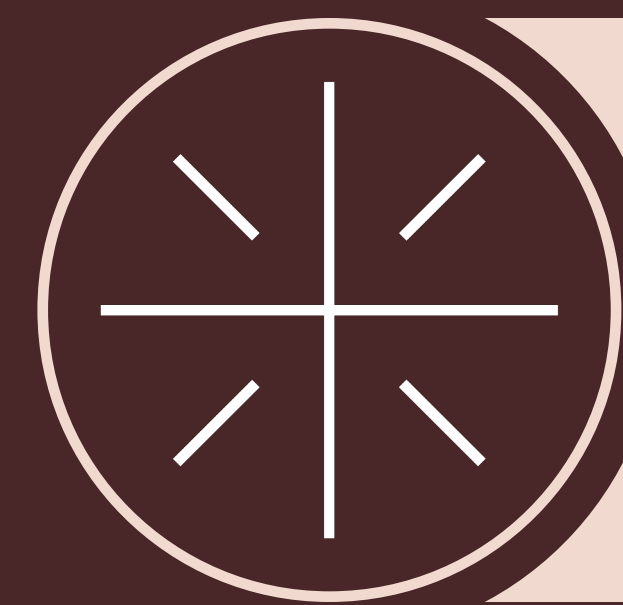
OBJECTIVE

To evaluate the safety and efficacy of a cosmetic topical brightener (LYT2) in combination with a dual serum antioxidant system (LVS) in skin of color patients with moderate to severe facial hyperpigmentation.

CONCLUSIONS



The LYT2 + LVS regimen was well tolerated, and produced significant improvements in hyperpigmentation, skin-tone evenness, and radiance



The LYT2 + LVS regimen produced high patient-perceived efficacy and overall satisfaction



LYT2 + LVS may be a novel, non-prescription regimen for skin of color patients seeking to improve hyperpigmentation and overall skin quality

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INTRODUCTION

Background

- Hyperpigmentation disorders disproportionately affect individuals with skin of color
 - These can be by several different biological or environmental factors
 - These conditions are challenging to treat in patients with skin of color
- These disorders are often recalcitrant or relapsing and require continuous treatment
 - The gold-standard therapies containing Hydroquinone (HQ) cannot be used for extended periods of time because of adverse effects
 - Cosmetic topical therapies are in demand, but current options lack efficacy
- Comprehensive treatment regimens are needed to adequately address hyperpigmentation in skin of color
 - Agents that reduce melanogenesis or neutralize extrinsic stressors show efficacy as single agents but may synergize when used together
 - A comprehensive HQ-free, retinol-free cosmetic topical brightener (LYT2) was previously shown to be effective at improving hyperpigmentation in skin of color^{1,2}
 - A dual serum providing broad antioxidant protection and skin repair support (LVS) was shown to protect from multiple extrinsic stressors and improved overall skin appearance
 - A complete regimen using these agents in combination has not formally been evaluated

RESULTS

- Thirteen patients enrolled in the study (Table 1)
 - The demographic was exclusively Asian, Hispanic or African American
- Of the 13 patients enrolled, 10 completed the study
 - The dropouts were due to withdrawn consent
- Study regimen provided significant improvements versus baseline for all investigator efficacy assessment parameters by week 12 (Figures 1&2)
- Significant changes in skin-tone evenness and radiance were observed starting at week 4, which progressed until the end of the study (Figure 2)
- At week 12, almost all patients responded “agree” or “strongly agree” to all attributes of self-perceived efficacy
- All subjects noted at least some improvement in skin condition by week 8 (Figure 4)
- Most patients reported good or excellent overall satisfaction with the regimen by week 12
- One treatment related adverse event was reported
 - Patient experienced irritation and stinging that resolved once the regimen was discontinued, and the patient withdrew from the study

Table 1. Patient Demographic Enrolled at Baseline

	# of subjects (N=13)
Age (years)	
Mean (SD)	44
Min, Max	34-54
Gender, n (%)	
Female	12 (92%)
Male	1 (8%)
Ethnicity, n (%)	
African American	5 (38.5%)
Asian	3 (23.0%)
Other	5 (38.5%)
Fitzpatrick Skin Type, n (%)	
III	3 (23%)
IV	5 (39%)
V	3 (23%)
VI	2 (15%)

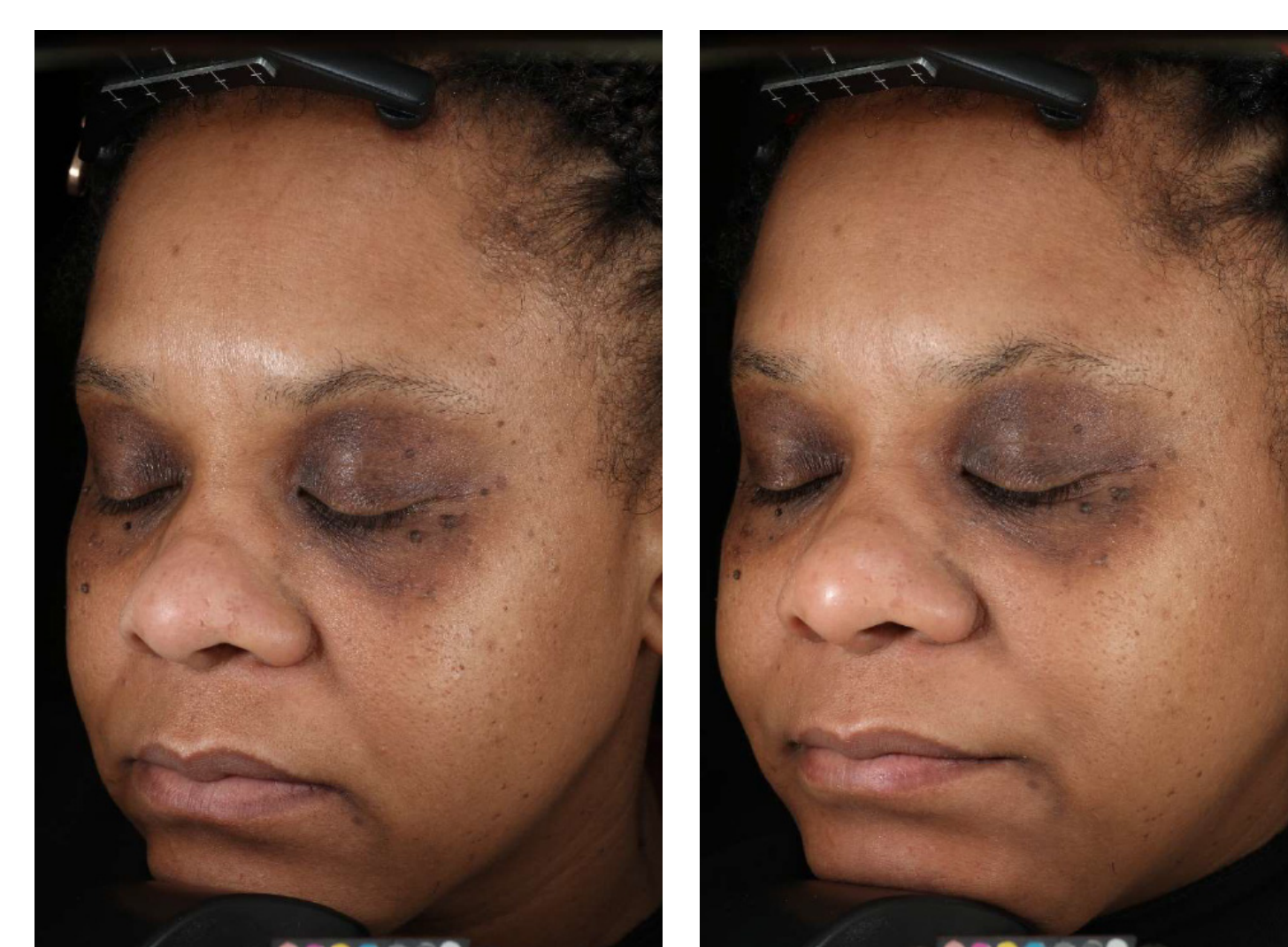
Figure 1A-C. VISIA-CR Images (Standard Lighting 2) Showing Improvements from baseline in Overall Hyperpigmentation, Skin-Tone Evenness, and Radiance

(A) Female, Age 38, Hispanic, Fitzpatrick type III (B) Female, Age 43, Asian, Fitzpatrick type IV



Baseline Week 12

(C) Female, Age 42, African American, Fitzpatrick type V



Baseline Week 12

METHODS

Study Design

- Open-label, single center study
- Individuals must have had investigator-assessed moderate to severe overall facial hyperpigmentation (score of 4-9 on the modified Griffiths' scale).
- Key exclusion criteria
 - a pre-existing dermatologic condition that could interfere with study assessments
 - known allergies or sensitivities to the ingredients in the study products
 - women who were pregnant or nursing

Treatment Regimen

- LVS Day and Night serum (Lumivive System, SkinMedica, Allergan Aesthetics, an AbbVie Company) – used each once daily
- LYT2 (Lytera 2.0, SkinMedica) - used twice daily
- Facial Cleanser (SkinMedica) – used twice daily
- Broad-spectrum SPF 35 sunscreen (SkinMedica) – used once daily, reapplied as needed
- Ultra Sheer Moisturizer (SkinMedica) - used twice daily

Study Assessments

- Study visits occurred at baseline, week 2, week 4, week 8 and week 12
- Standardized Digital Photography(Canfield VISIA-CR), and investigator assessments for the following parameters were conducted at all visits:
 - Overall Hyperpigmentation, Skin Tone Evenness, Radiance
 - 0-9 scale (0=none, 1-3=mild, 4-6=moderate, 7-9=severe)
- Subject self-assessment questionnaires were completed at all follow-up visits
- Tolerability of treatment was assessed via capture of adverse events at each follow-up visit

Figure 2. Improvements in Overall Hyperpigmentation, Skin Tone Evenness, and Radiance as Assessed by Investigator

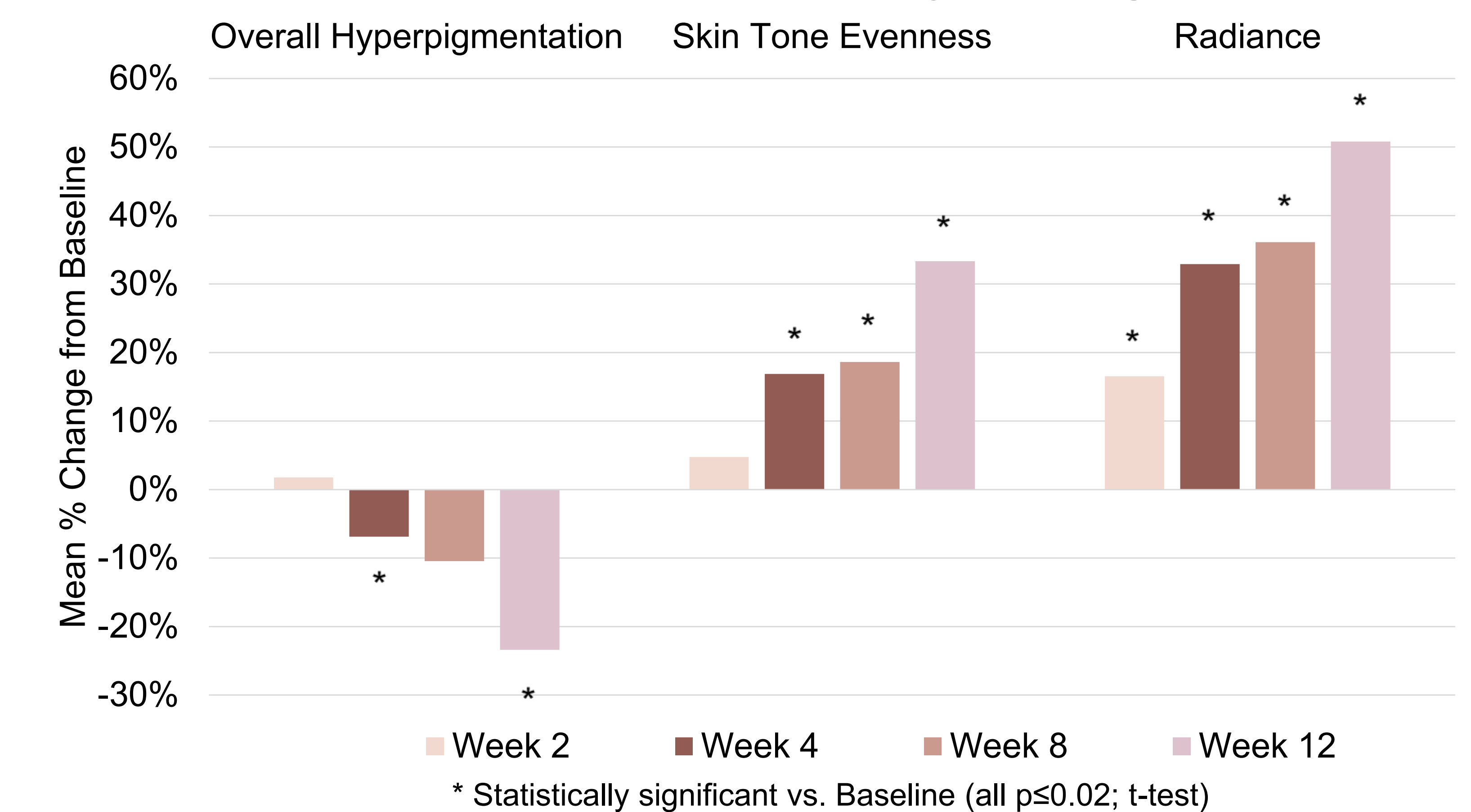


Figure 3. Subject Questionnaire Results for Self-Assessed Efficacy at Week 12

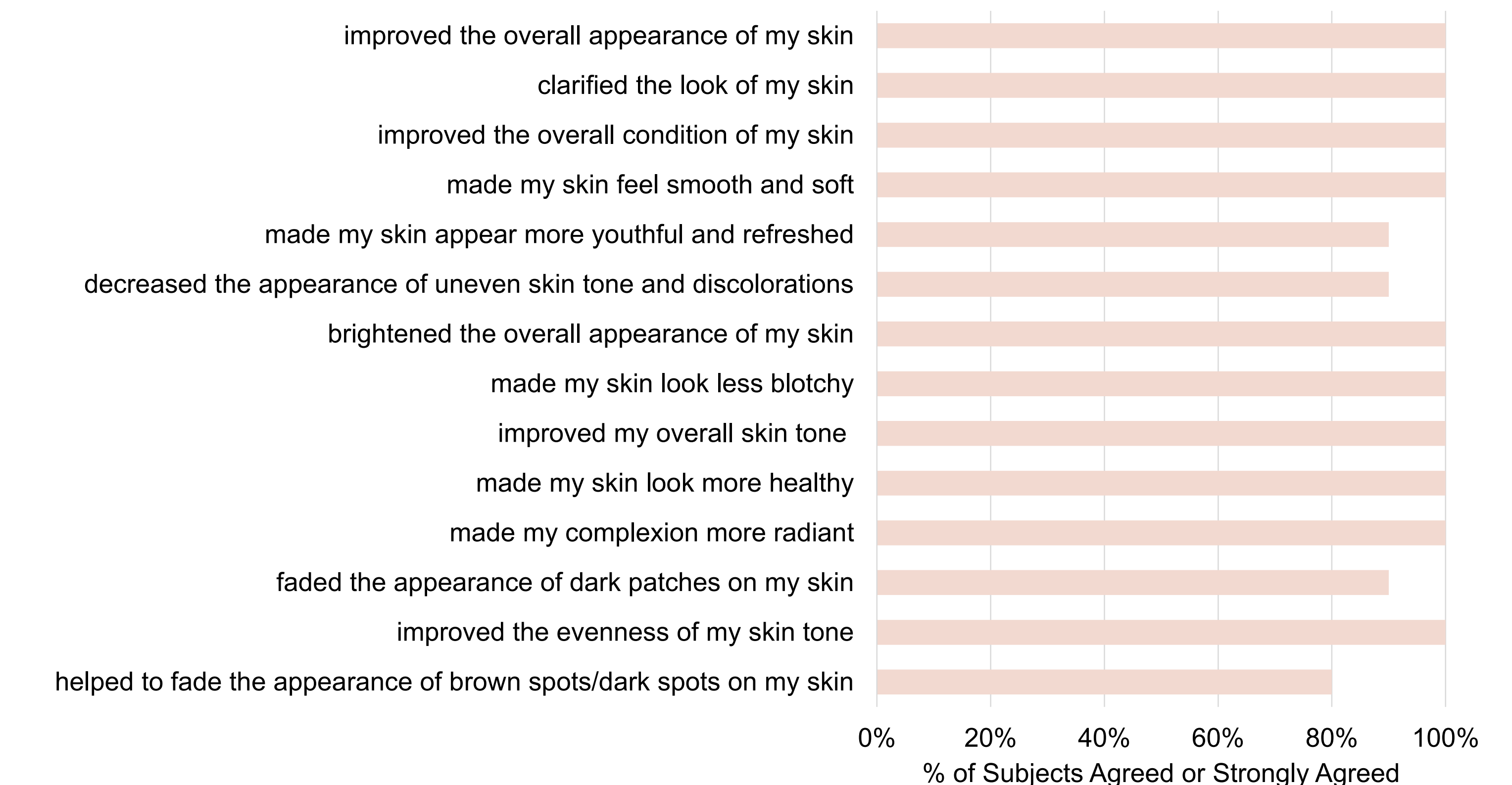


Figure 4. Subject Graded Overall Improvements

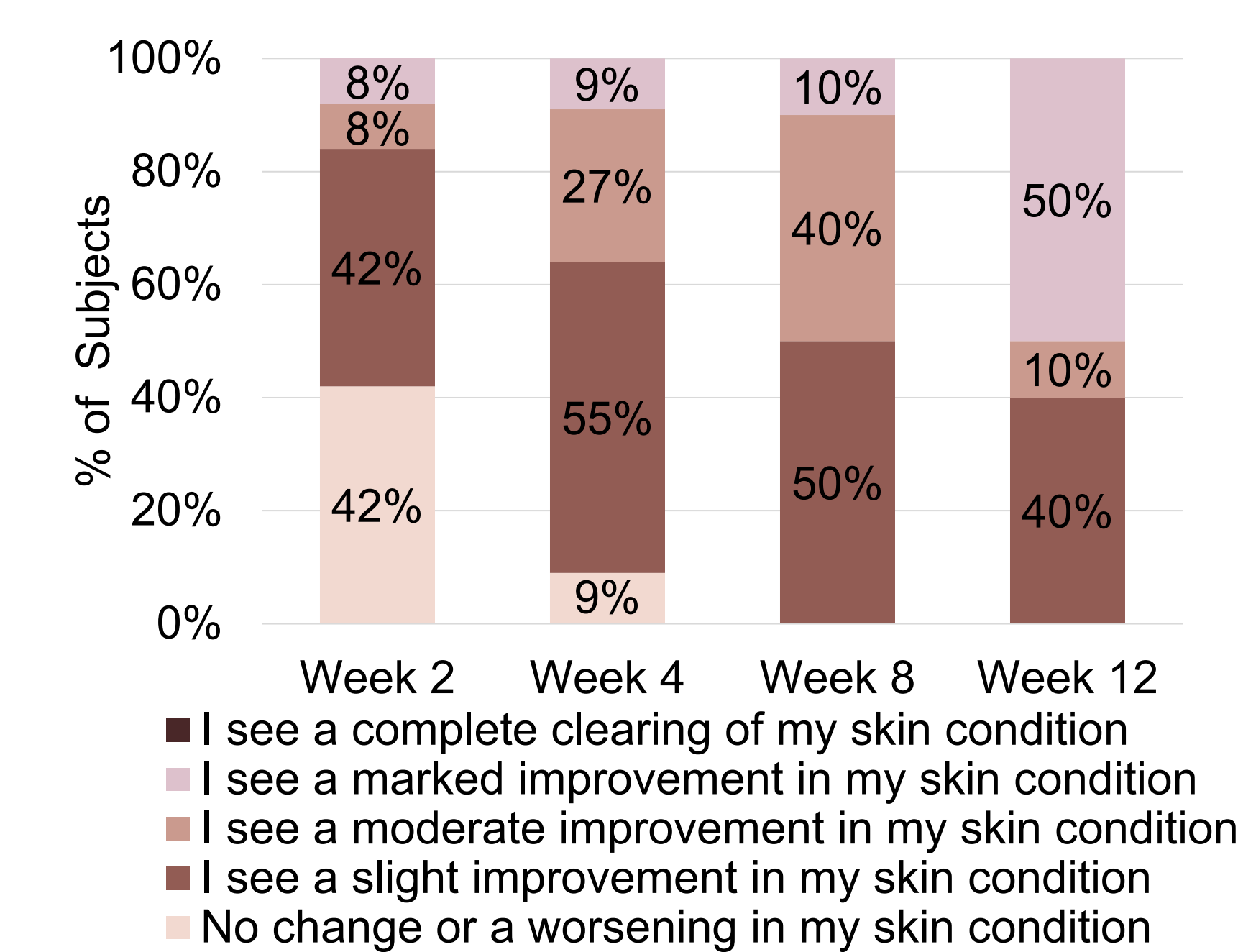


Figure 5. Subject Overall Satisfaction

