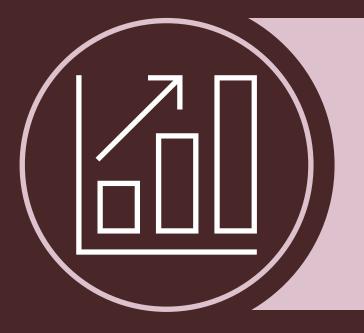
Efficacy and Tolerability of a **Comprehensive Brightening Serum** Plus a Dual Antioxidant System in Ethnically Diverse Subjects with Moderate to Severe Facial Hyperpigmentation

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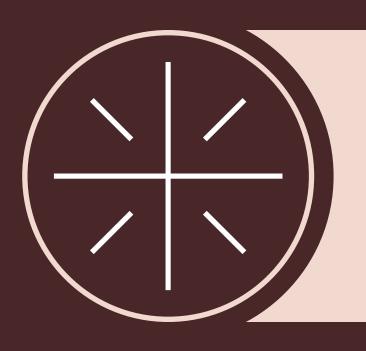
OR ECTIVE

To evaluate the safety and efficacy of a cosmetic topical brightener (LYT2) in combination with a dual serum antioxidant system (LVS) in subjects of diverse ethnicity presenting 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 regimen produced high patient-perceived efficacy and overall satisfaction



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

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> Allergan Aesthetics an AbbVie company

(\mathbf{i}) INTRODUCTION

Background

- Facial hyperpigmentation is a common cosmetic complaint - While hyperpigmentation affects all races, it is of particular concern to Asian individuals These disorders are highly prevalent among East Indians
- Treatment options are rarely formally evaluated in Asian populations, let alone Indian - The gold-standard, front line topical therapies such as those containing hydroquinone (HQ) cannot be used long-term because of adverse effects
- Alternative cosmetic topical therapies are in demand, but current options lack efficacy • Skin brightening agents combined with comprehensive antioxidant defense may complement each other to reduce the appearance of hyperpigmentation and improve skin quality
- A comprehensive cosmetic topical brightener (LYT2) was previously shown to be similarly effective to 4% HQ at reducing hyperpigmentation in ethnically diverse patients^{1,2}
- A dual serum product providing broad antioxidant protection and skin repair support (LVS) was shown to protect from environmental damage and improve overall skin appearance in both Indians and Chinese^{3,4} - A combination regimen using these agents has not been formally evaluated in diverse populations

RESULTS

- Eighteen females, aged 34-54, enrolled in the study (Table 1) All patients previously relapsed from or failed therapy with HQ (4 or 6%), or triple combination cream
- Of the 18 patients enrolled, 15 completed the study - One drop-out was due to non-compliance, and 2 patients withdrew consent
- Immediate significant improvements were observed for all investigator-assessed parameters (Figures 1&2) Continuous improvement was seen through the study
- By week 12, ≥80% of subjects rated "agreed" or "strongly agreed" to all attributes of perceived efficacy (Figure 3)
- All patients noted at least slight improvements in skin condition by week 4 (Figure 4)
- At week 12, 86% of subjects reported "good" or "excellent" overall satisfaction with the treatment (Figure 5)
- One adverse event was reported
- Patient developed a red rash on the face and experienced itchy eyes that resolved once the regimen was discontinued, and the patient withdrew from the study

Figure 1A&B. VISIA-CR Images (Standard Lighting 2) Showing Improvements from baseline in Overall Hyperpigmentation, Skin-Tone Evenness, and Radiance at Week 4 and at Final Evaluation (A) 46 year-old, East Indian Female, Fitzpatrick type IV

*Final Visit Week 4 Baseline **(B)** 51 year-old, Asian Female, Fitzpatrick type IV









*Final Visit Baseline Week 4 *The final visit was conducted off-schedule at week 19 (A) or week 14 (B) instead of week 12 due to restrictions from Covid-19

METHODS

Study Design

- Open-label, single center study
- Individuals must have had investi
- severe overall facial hyperpigmer modified Griffiths' scale).
- Key exclusion criteria
- a pre-existing dermatologic con study assessments
- known allergies or sensitivities products
- women who were pregnant or **Treatment Regimen**
- LVS Day and Night serum (Lumivi
- Aesthetics, an AbbVie Company) LYT2 (Lytera 2.0, SkinMedica) - u
- Facial Cleanser (SkinMedica) u
- Broad-spectrum SPF 35 sunscreen (SkinMedica) used once daily,
- reapplied as needed
- Ultra Sheer Moisturizer (SkinMedica) used twice daily

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

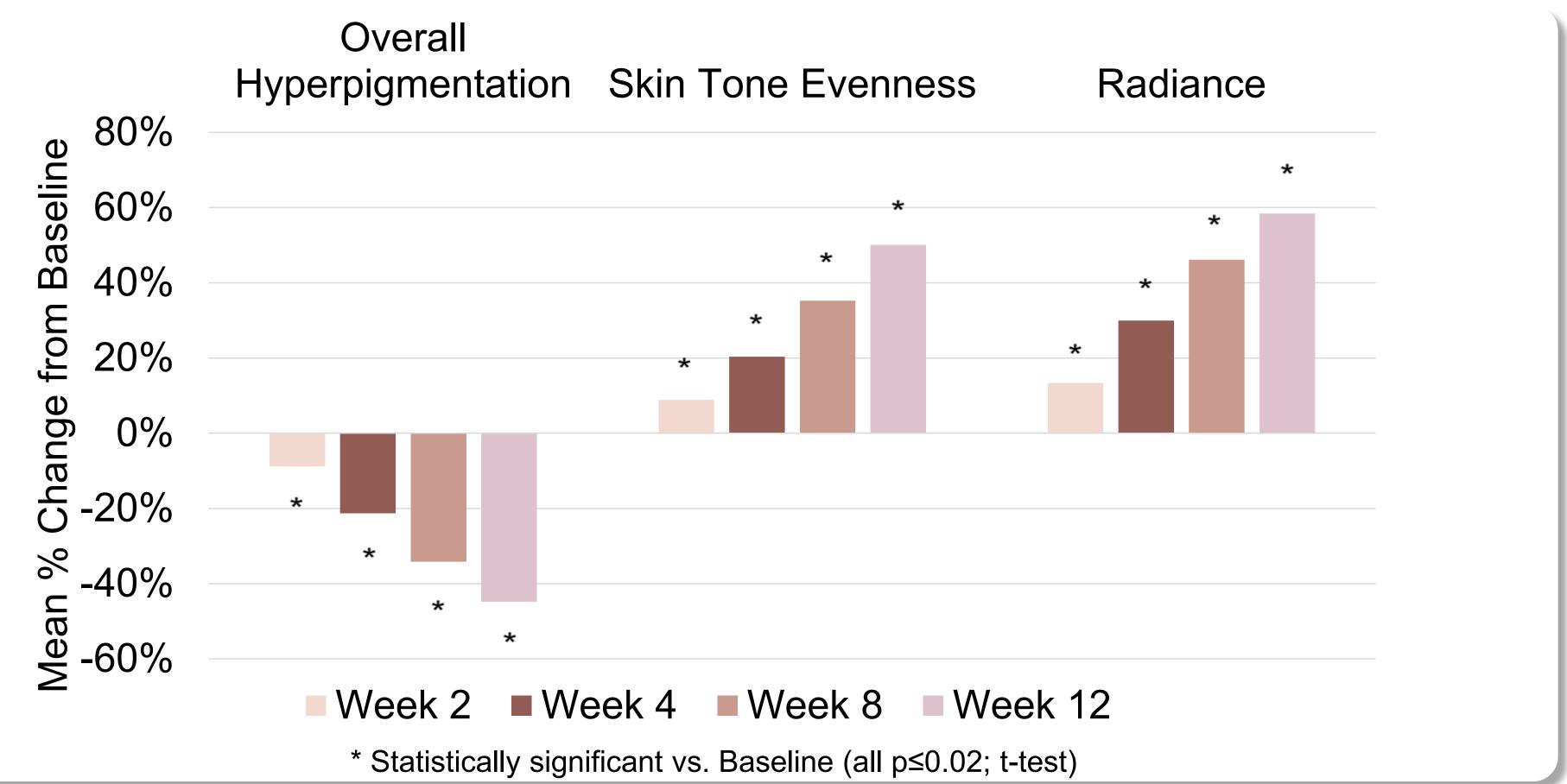


Figure 3. Subject Questionaire Results for Self-Assessed Efficacy at Week 12

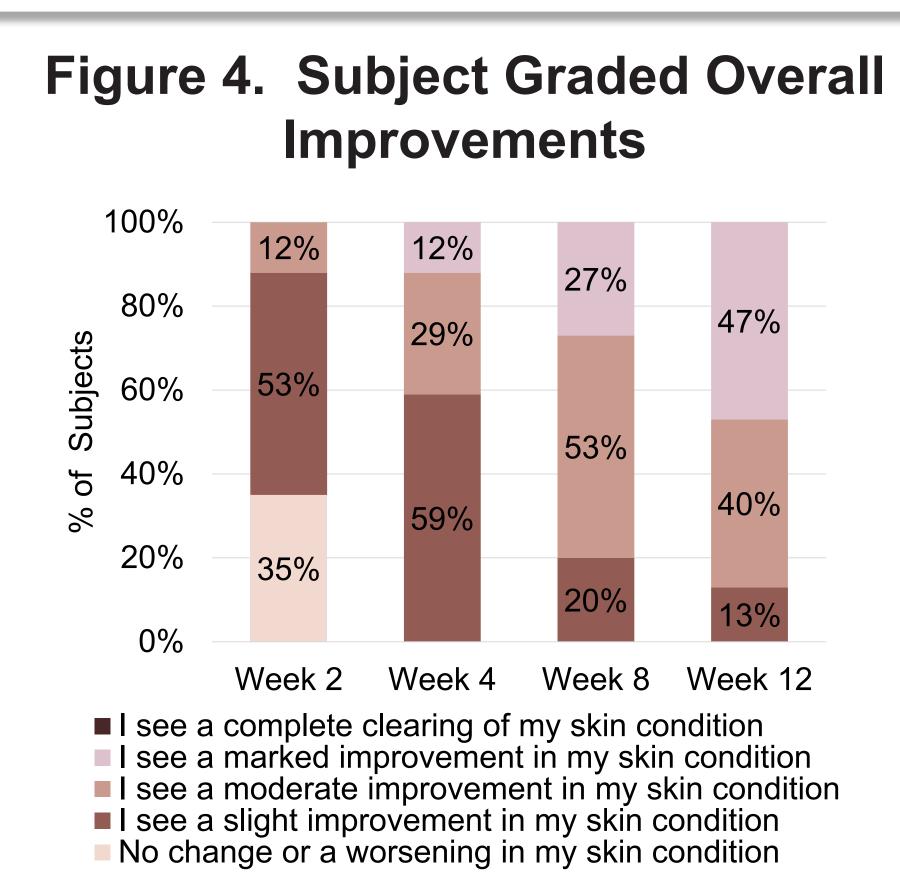
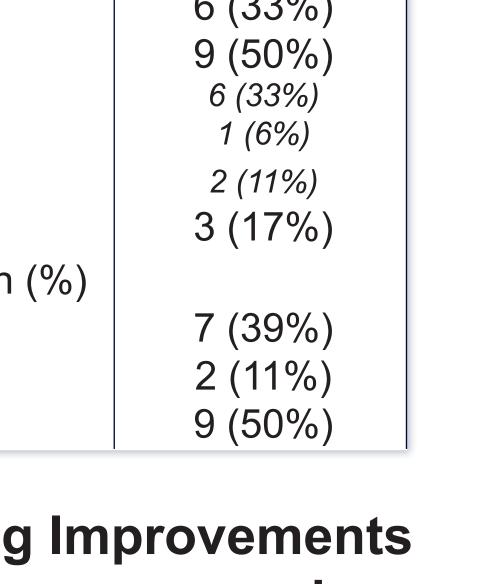


Table 1. Patient Demographic **Enrolled at Baseline** # of subjects (N=18) Age (years) Mean (SD) 45 33-57 Min, Max Gender, n (%) 18 (100%) Female Ethnicity, n (%) 6 (33%) Caucasian 9 (50%) Asian East Indian 6 (33%) South Asian 1 (6%) Not Specified 2 (11%) 3 (17%) Other Fitzpatrick Skin Type, n (%) 7 (39%) 2 (11%) 9 (50%) IV



	Study Assesments
stigator-assessed moderate to	 Study visits occurred at baseline, week 2, week 4, week 8 and week 12
entation (score of 4-9 on the	 Standardized Digital Photography(Canfield VISIA-CR), and investigator assessments for the following parameters were conducted at all visits:
ondition that could interfere with	 Overall Hyperpigmentation, Skin Tone Evenness, Radiance 0-9 scale (0=none, 1-3=mild, 4-6=moderate, 7-9=severe)
es to the ingredients in the study	 Subject self-assessment questionnaires were completed at all follow-up visits
r nursing	 Tolerability of treatment was assessed via capture of adverse events at each follow-up visit
ivive System, SkinMedica, Allergan y) – used each once daily used twice daily used twice daily	
oon (SkinMedica) — used once daily	

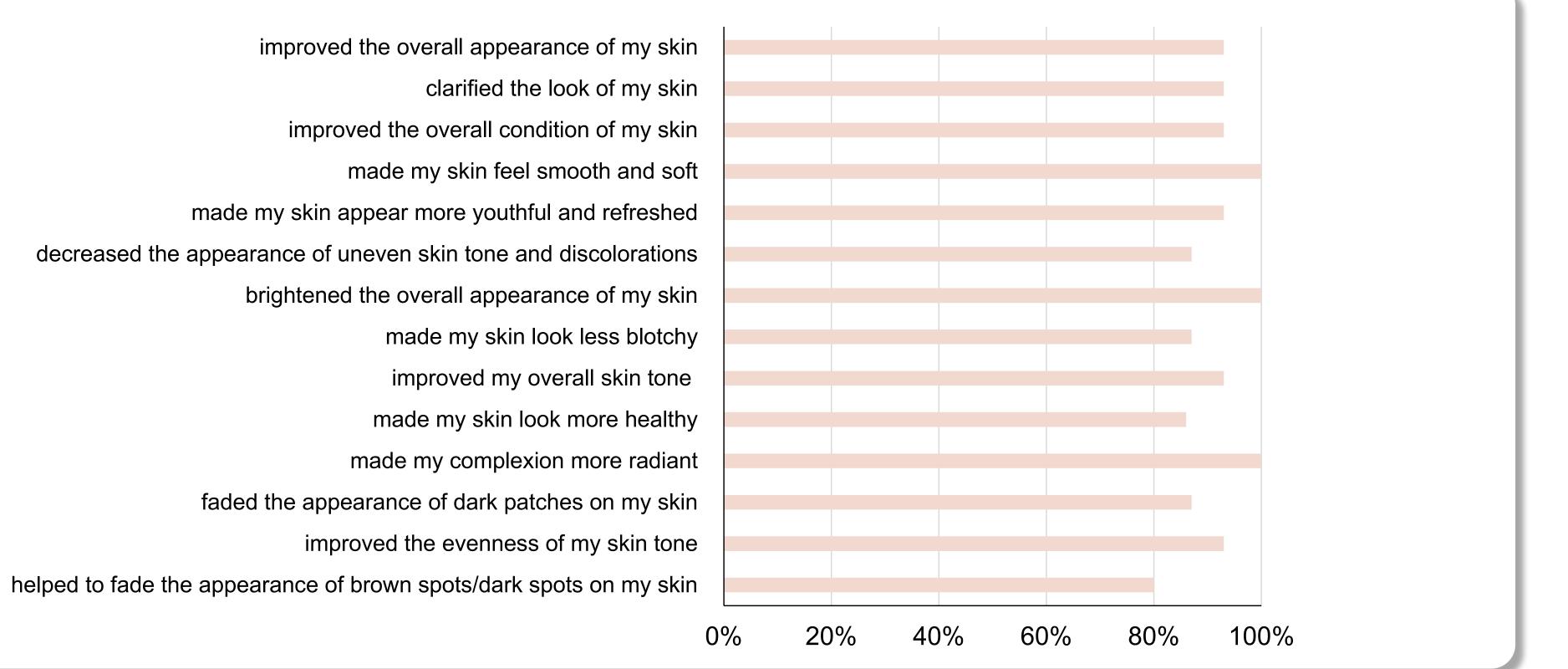


Figure 5. Subject Overall Satisfaction

