Efficacy of Novel Multimodality Pigment-Correcting Serum for Moderate to Severe Facial Hyperpigmentation, Including Melasma, in a 12-Week, Split-Face, Double-blind, Randomized Controlled Trial

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OBJECTIVE

To assess the efficacy and tolerability of a novel hydroquinone (HQ)-free, multimodal, pigment-correcting serum (LYT3) compared with 4% HQ in women with moderate to severe overall hyperpigmentation on both sides of the face

CONCLUSIONS



LYT3 significantly improved facial hyperpigmentation, including melasma, as early as week 2, with continued improvement through week 12 and a high rate of participant satisfaction with treatment



LYT3 had similar effectiveness across a broad range of races and ethnicities based on a subgroup analysis, and the study population reflected all Fitzpatrick skin types



The efficacy and tolerability of LYT3 were comparable to 4% HQ



A majority of participants, both overall and in the melasma subgroup, preferred LYT3 over 4% HQ

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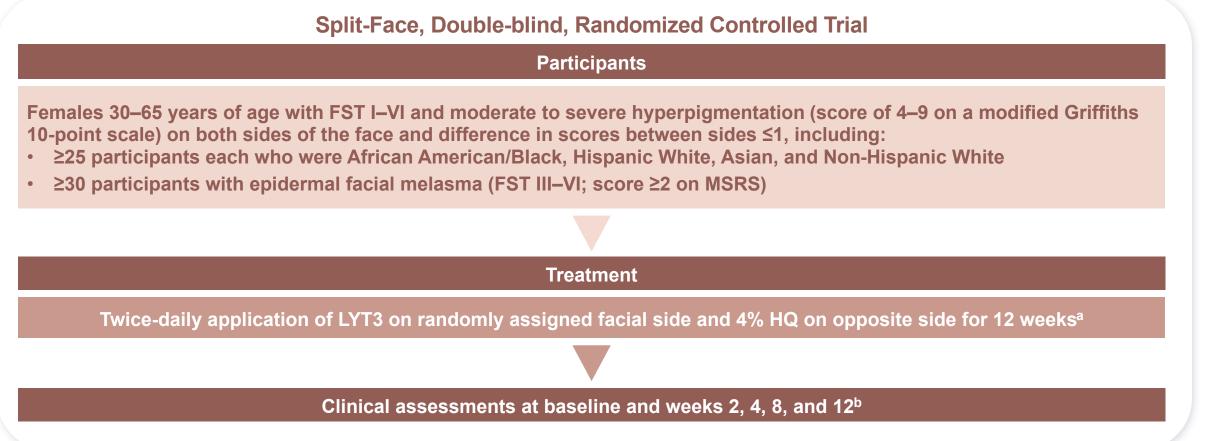
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SYNOPSIS

- Hyperpigmentation of the skin occurs when excess melanin is produced, resulting in uneven skin tone and a photoaged appearance^{1,2}
- Melasma, an acquired hyperpigmentation disorder occurring primarily on sun-exposed areas of the face, is particularly challenging to treat³
- Melasma and other hyperpigmentation disorders may disproportionately affect people with darker skin types, posing unique treatment challenges; a treatment that is effective in a broad range of ethnicities and skin types is needed4-6
- We conducted a split-face, single-center trial to assess the efficacy and tolerability of LYT3 (Allergan Aesthetics, an AbbVie Company) compared with 4% hydroquinone (HQ) for correcting hyperpigmentation, including melasma, in women with moderate to severe overall hyperpigmentation on both sides of the face

METHODS

Participants and Study Design



^aAll participants were additionally instructed to wash their face twice daily using the SkinMedica Facial Cleanser and apply the SkinMedica Ultra Sheer Moisturizer (АМ/РМ) and SkinMedica Essentia ^bSelf-assessment questionnaires also completed at weeks 2, 4, 8, and 12

Study Assessments

Left and Right Sides of Face Evaluated Separately for Each Measure

- Clinical grading of efficacy (on a modified Griffiths scale: 0 [none], 1–3 [mild], 4–6 [moderate], 7–9 [severe]): overall hyperpigmentation and skin tone evenness
- VISIA-CR imaging
- Self-assessment questionnaires
- Tolerability assessments (0 [none], 1 [mild], 2 [moderate], 3 [severe]) on the left and right facial sides: erythema, edema, dryness, burning, stinging, and itching
- Melasma subgroup: modified Melasma Area and Severity Index (mMASI)
- Melasma subgroup: Melasma Quality of Life Questionnaire

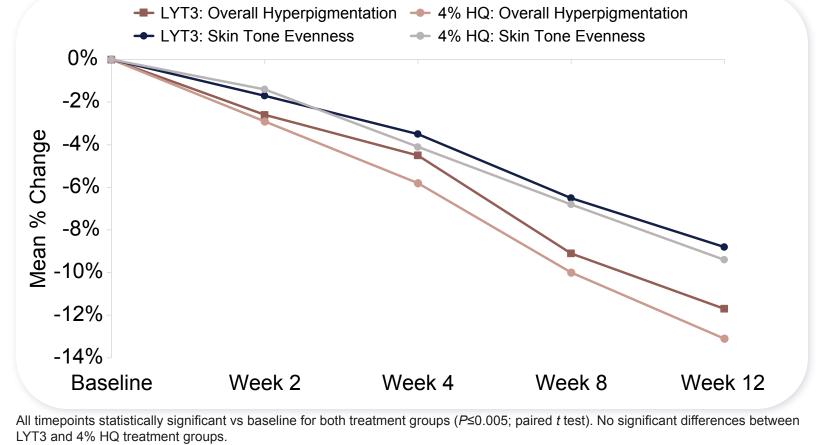
RESULTS

 The week 12 visit was completed by 110 participants (97.3%) overall and 42 (95.5%) in the melasma subgroup

Participant Demographics

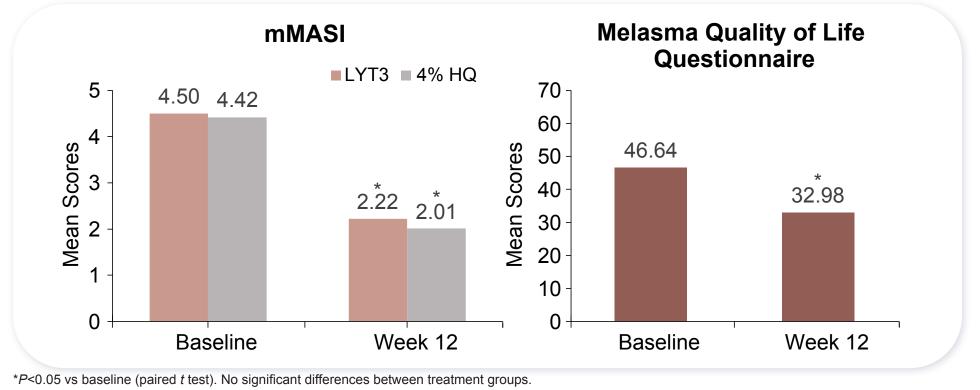
	All Participants (N=113)	Melasma Subgroup (n=44)
Race and ethnicity subgroups, %		
African American	27	21
Non-Hispanic White	28	27
Hispanic White	22	27
Asian	22	25
Multi-Racial	1	0
Fitzpatrick skin type, %		
I	0.8	0
II	10.7	0
III	41.0	59.0
IV	21.3	25.0
V	22.1	14.0
VI	4.1	2.0

Significant Improvements Versus Baseline in Investigator Assessments Were Observed **Starting at Week 2 and Continuing Throughout** the Study



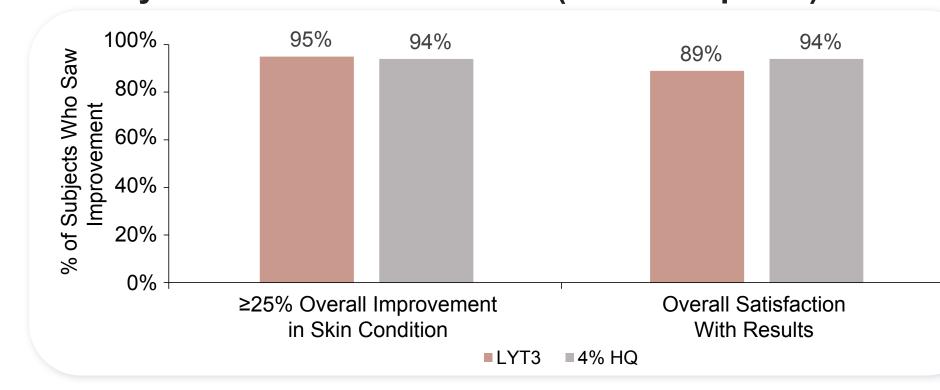
- Race and ethnicity subgroup analysis
- Results were similar across all race and ethnicity subgroups, with significant improvements versus baseline starting at week 2 or 4 and continuing through week 12
- Across all race and ethnicity subgroups, LYT3 achieved comparable results to 4% HQ, with no significant differences, and with a ≤3.1% mean change difference between the 2 treatment groups for each parameter

LYT3 Significantly Improved Melasma Severity and Melasma-Related Quality of Life in Participants With Melasma

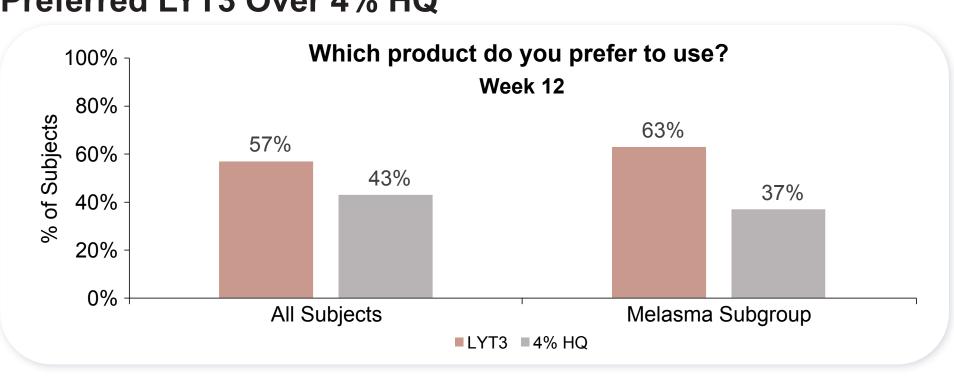


 Race and ethnicity subgroup analysis: among participants with melasma across all ethnicities, LYT3 produced similar improvements in melasma severity and high rates of overall satisfaction with results (82% to 100% at week 12)

At Week 12, LYT3 Was Highly Rated by Participants for **Efficacy and Overall Satisfaction (All Participants)**



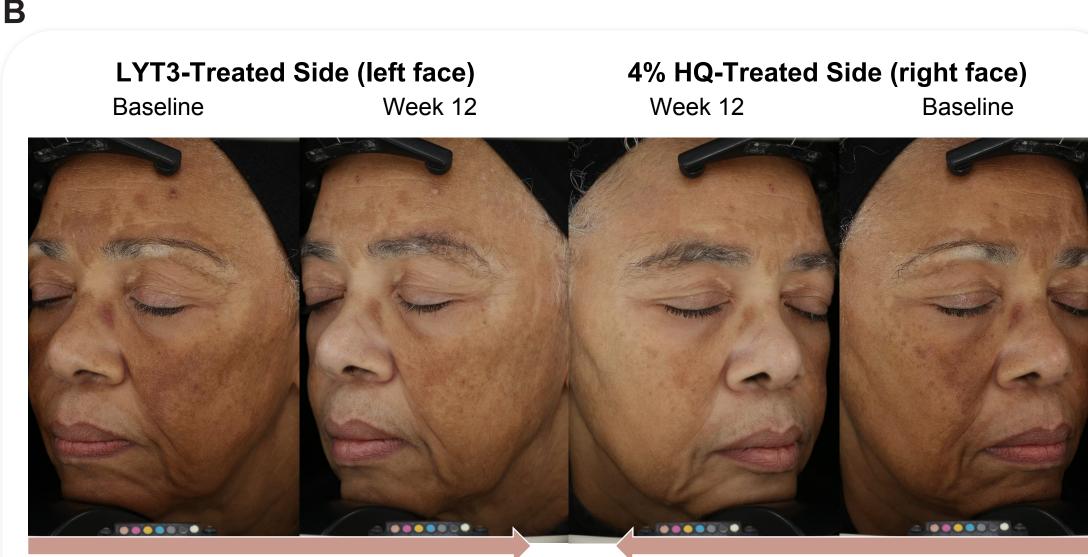
All Participants and Those in the Melasma Subgroup Preferred LYT3 Over 4% HQ



 Participants (overall and in the melasma subgroup) consistently preferred LYT3 over 4% HQ at every visit (weeks 2, 4, 8, and 12)

Standardized Images Showed That LYT3 and 4% HQ Were Effective in Improving the Appearance of (A) Overall Hyperpigmentation and (B) Melasma





• Treatment was well tolerated, with mean scores remaining less than 0.25 (mild) for all tolerability parameters at each study visit and no significant differences observed between LYT3 and 4% HQ

Black or African American, female, 60 years of age, FST IV

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