

# Efficacy Observation of Lumixyl Brightening System for Treatment of Melasma

Xiangyu HUANG, Hong WAI, Xiuping DAI, Qing YE, Yizuo LIU, Shirong LI  
(Aesthetic and Plastic Surgery Depart., Southwest Hospital of Third Military Medical University of Chinese P.L.A,  
Chongqing 400038)

**[ABSTRACT] OBJECT** observe the security and the efficacy of Lumixyl Brightening system comprised of cleanser, cream, glycopeel, SPF 30 sunscreen for synergistic treatment of facial melasma. **METHODS:** 15 Chinese patients with melasma were asked to compliant for 12 weeks the use of the cleanser to clean the face in the morning and the evening, twice daily application of the cream, and alternate night application of the glycopeel, as well as daily application of SPE 30 sunscreen in the morning and at noon. During the study, the patients can not use any other skin care products on the face, except the Lumixyl brightening system. Use the dermoscope and VISIA digital skin analyzer to assess the result three months before and after the treatment. **RESULTS:** compared with before the treatment, the patients were observed a marked reduction on the facial melasma after three months' topical use, which was shown that the difference was statistically significant ( $P < 0.05$ ); the normal skin was visibly whitening, and no any apparent stinging or sensitive reaction and side effects were caused, and hardly ever the erythema, dryness and pruritus were observed. **CONCLUSION:** overall, the treatment containing of 0.01% decapeptide-12 cream, an antioxidant cleanser, a glycolic acid lotion, and a broad spectrum SPF30 sunscreen yields good clearance of facial melasma. The cleanser can clean moderately the skin and maintain the skin moisture balance; the glycolic acid lotion promote the skin metabolism, accelerate the epidermic cell renewal and the penetration of decapeptide-12; the broad spectrum SPF30 sunscreen helps reduce the UV damage to the skin. In a word, the skin brightening system of decapeptide-12, consisting of 4 parts, works synergistically, which show under the dermoscope the improvement of the skin texture and the integrity of epidermis; and which can eliminate the existing pigmentation, prevent its recurrence. The Lumixyl brightening system is an effective new skin whitening product with a good tolerance that is safe, and could improve the splash and the normal skin tone effectively.

**[KEYWORDS]** decapeptide-12, melasma, tyrosinase

## Clinical materials and methods

### 1 CLINICAL MATERIALS

#### 1.1 General material

#### 1.2 Exclusion Criteria

#### 1.3 Products

#### 1.4 Testing equipment

1.4.1 IBS-01e skin magnifier Dermoscope, 50x camera, manufactured by Taiwan KOWA OPTICS CORPA

1.4.2 VISIA Complexion Analysis system, Canfield

### 2 METHODS

#### 2.1 Treatment Regimen

#### 2.2 Splash change rate of Melasma

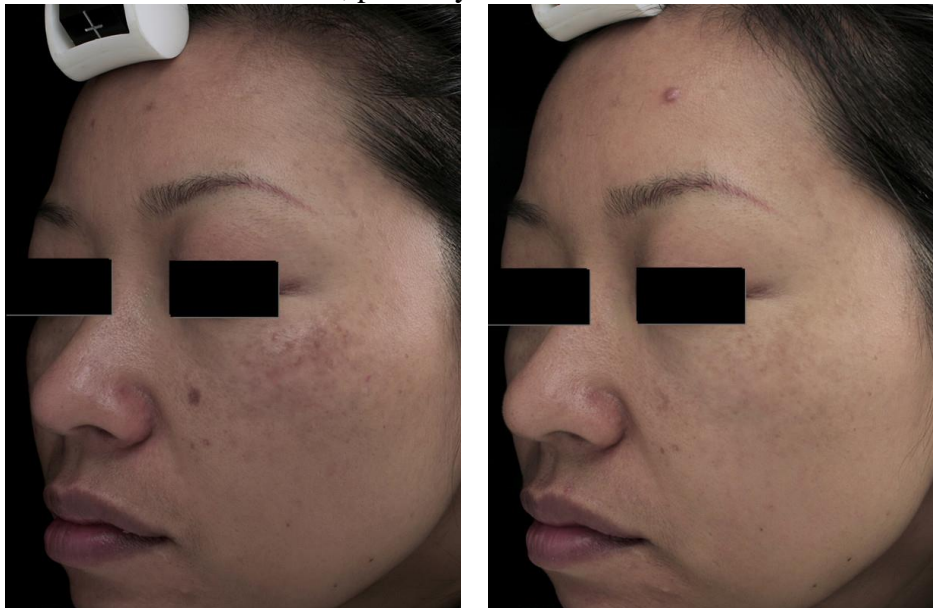
#### 2.3 Improvement grade of skin texture and pigmentation under the dermoscope

- 2.4 Volunteer self-assessment
- 2.5 Efficacy judgement standard
- 2.6 Statistical Methods

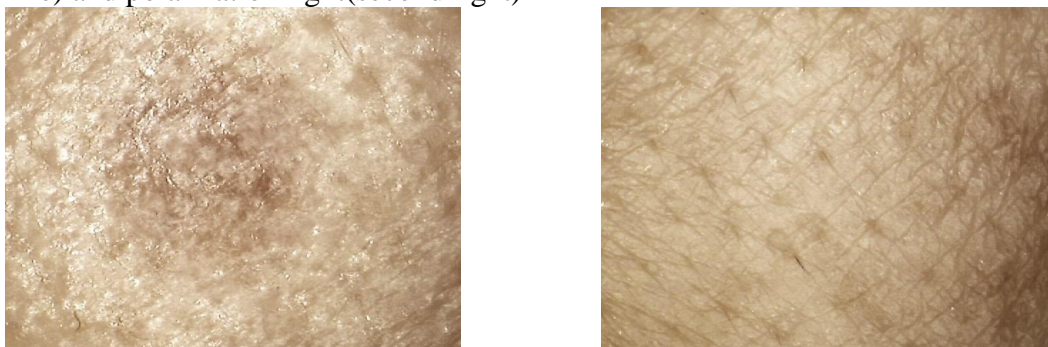
3 RESULTS

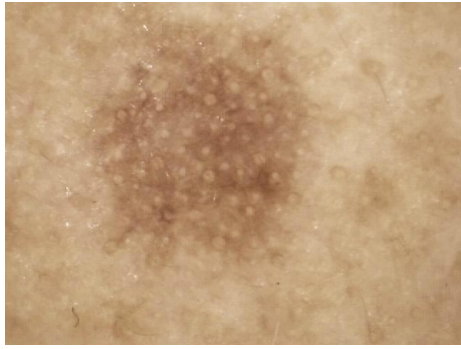
- 3.1 Changes of the value and the splash of melasma
- 3.2 Improvement grade of skin texture and pigmentation under the dermoscope
- 3.3 Volunteer satisfaction
- 3.4 Clinical efficacy
- 3.5 Untoward effect

Before and after treatment, photo by VISIA



Before(left) & After(right) treatment, Dermoscope pictures, 50x, original light(first line) and polarization light(second light)





- 4 DISCUSSION
- 5 CONCLUSION

REFERENCES