

A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

PIGMENTATION

A RANDOMIZED, PLACEBO-CONTROLLED, MULTICENTER STUDY OF EFFICACY AND SAFETY OF ORAL COLORLESS CAROTENOID FOR THE TREATMENT OF MELASMA AMONG INDONESIAN WOMEN

Ruri Diah Pamela Ruri Pamela⁽¹⁾ - Nur Dalilah Nur Dalilah⁽²⁾ - Desidera Husadani Desidera Husadani⁽³⁾ - Fitra Hergyana Fitra Hergyana⁽⁴⁾ - Manik Hikmat Manik Hikmat⁽⁵⁾ - Wulan Yuwita Wulan Yuwita⁽⁶⁾ - Ammarilis Mochtar Ammarilis Mochtar⁽⁷⁾

Dr. Suyoto Hospital, Dermatology & Venereology, Jakarta, Indonesia⁽¹⁾ - Permata Hospital, Dermatology & Venereology, Bekasi, West Java, Indonesia⁽²⁾ - Imanuel Hospital, Dermatology & Venereology, Bandar Lampung,, Indonesia⁽³⁾ - Karawang Hospital, Dermatology & Venereology, Karawang, West Java, Indonesia⁽⁴⁾ - Tivaza Clinic, Dermatology, Bandung, West Java, Indonesia⁽⁵⁾ - Karisma Hospital Cimareme, Dermatology & Venereology, Bandung, West Java, Indonesia⁽⁶⁾ - Mm Skin Clinic, Dermatology, Surakarta, East Java, Indonesia⁽⁷⁾

Background: Melasma is a common skin pigment disorder with a difficult clinical response to treatment. Despite many known risk factors as cumulative sun exposure, oral contraceptive pills, pregnancy, stress, cosmetics, and some drugs, the physiopathology of melasma is not yet fully understood, which limits the development of definitive treatments and prevention strategies.

Objectives: The aim of this study was to evaluate the efficacy and safety of oral daily supplement containing colorless carotenoid for treatment of melasma among Indonesia women.

Material & Methods: This was a randomized, single-blind, placebo-controlled clinical trial performed in 50 female subjects with mild to moderate melasma in five dermatology outpatient public service hospital/ clinic in several regions of Indonesia (Jakarta, Bandar Lampung, Central Kalimantan, and West Java). They were randomly divided into two groups and were treated with once daily oral supplements containing colorless carotenoid (n=25) or placebo (n=25). They were followed every 30 days for a period of 90 days. Response to treatment was evaluated by the mMASI score and photographic documentations. Patients self assessment were also collected.

Results: 47 subjects complete the study, and at the end of this study, the mMASI score was











significantly decrease in those who received oral supplement compared with placebo (p<0,5). Subjects in the supplement group also had better scores for patient self-assesments than those in the placebo group. Four out of 50 subjects experienced side effect as mild acne.

Conclusions: Once daily oral supplements containing colorless carotenoid are potential adjuvant treatment for melasma. Further studies with larger scale and longer observations are required to complete this study.



24TH WORLD CONGRESS OF DERMATOLOGY MILAN 2019



International League of Dermatological Societies Skin Health for the World

