ABSTRACT BOOK ABSTRACTS



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PIGMENTATION

COMPARISON OF THE EFFICACY, TOLERABILITY AND SAFETY OF 10% TRANEXEMIC ACID CREAM VERSUS 20% AZELAIC ACID CREAM IN MELASMA: A SPLIT FACE, DOUBLE-BLIND RANDOMISED CONTROLLED TRIAL

Nilay Das⁽¹⁾ - Sufiur Rahaman⁽¹⁾ - Nasiruddin Mondal⁽¹⁾ - Aparesh Patra⁽¹⁾ - Amrita Sil⁽²⁾ - Arghyaprasun Ghosh⁽¹⁾

Bankura Sammilani Medical College, Department Of Dermatology, Bankura, India⁽¹⁾ - Rampurhat Medical College, Department Of Pharmacology, Rampurhat, India⁽²⁾

Introduction: Melasma poses the threat of steroid-abuse in recent times. Need for a nonsteroidal anti-melasma agent is need-of-the-hour. Tranexamic acid, by its anti-plasmin activity reduce alpha-melanocyte-stimulating hormone. Azelaic acid on the other hand causes direct cytotoxicity on melanocyte by inhibiting DNA synthesis and mitochondrial enzymes. Thus both have potential as anti-melasma agent.

Objective: To assess efficacy, safety of 10% Tranexemic acid cream(TA) vs. 20% Azelaic acid cream (AA) in treatment of Melasma

Methodology: Single-center, split-face, double-blind, randomized (1:1), active-controlled, parallel group phase IV trial conducted on

adult patients of melasma of either sex having involvement of malar area. Each hemiface received either TA or AA as per computer-generated random number sequence. Fortnightly follow-up was done for 12 weeks(End-of-treatment visit). Primary outcome measures was the composite malar area pigment score (CMAPS) calculated by the area of involvement(A), homogeneity(P) and pigmentation(P) on the malar area. Treatment-emergent adverse events were monitored.

Results: Being a split-face study, the comparator groups (n=16 each) were a perfect match with respect to the clinico-demographic profile, mean age 31.82 ± 6.30 years, mean duration of sunexposure 3 ± 1.61 hrs, duration of illness 21.19 ± 15.31 months, mean MASI 9.08 ± 4.34 , and were having predominantly epidermal (62.5%) melasma. Baseline CMAPS of TA and AA was comparable (P=0.7695, Wilcoxon's test). At final visit the CMAPS of TA (1.73\pm1.68) was less than AA (2.08\pm1.70), though not statistically significant. With both TA and AA there was significant reduction (P<0.001, Friedmen's test) in CMAPS from 1st











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follow-up visit (P<0.05, Post hoc test); though with AA the plateau is reached after 5th followup but for TA reduction continued till study end. Burning and stinging sensation (5% with TA vs 45% with AA) was found to be significantly more with AA.

Conclusion: Both TA and AA are useful non-steroidal treatment options for melasma, though TA is better tolerated than AA.



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