ABSTRACT BOOK ABSTRACTS



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

ACNE, ROSACEA, AND RELATED DISORDERS (INCLUDING HIDRADENITIS SUPPURATIVA)

A RANDOMISED, DOUBLE BLIND, COMPARATIVE CLINICAL TRIAL ASSESSING THE EFFECTIVENESS AND SAFETY OF DAPSONE 5% VERSUS CLINDAMYCIN 1% IN THE TREATMENT OF MILD TO MODERATE ACNE VULGARIS

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Introduction: Antibiotics play a pivotal role in treatment of acne. Clindamycin inhibits bacterial protein synthesis, suppresses complement derived neutrophil chemotaxis. Topical Dapsone (4,4'diaminodiphenylsulfone) was recently approved for the treatment of acne, has dual therapeutic activity by demonstrating antimicrobial and anti-inflammatory properties.

Objectives: To compare the effectiveness and safety of topical dapsone 5% gel and clindamycin 1% gel in the treatment of acne vulgaris.

Materials and Methods: Unicentric, double-blind, parallel-group (1:1, Group A=dapsone 5%, Group B=clindamycin 1%) randomized trial (CTRI/2017/08/009582) was done on acne vulgaris patients (global acne assessment scale mild to moderate) of either gender, 12-40 years age, excluding severe acne, pregnant, breast-feeding, G6PD deficient individuals. Patients were treated for 3 months, followed up at 4, 8, 12 weeks. Patients were blinded by painting the tubes in opaque-white and physician blinding was achieved by having separate dispensing and assessing physicians. Calculated sample size was 56 (effect size of 1, SD 1.25, 80% power, 0.05 Type 1 error, 10% dropout rate), analyzed by modified-intention-to-treat analysis.

Results: The study groups (dapsone=28, clindamycin=23) were comparable at baseline with respect to age, sex and acne grading(P>0.05). The effectiveness parameters, namely number of inflammatory and non-inflammatory lesions, diameter of largest lesion and acne global assessment scale were also comparable at baseline (P>0.05, Mann Whitney test), all of them reduced significantly (P<0.001, Friedman's ANOVA) in both treatment groups from





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1st follow-up visit (P<0.05, post-hoc Dunn's). At end of treatment visit, number of inflammatory lesions were significantly less (P=0.023, Mann Whitney) and diameter of largest lesions and acne global assessment scale were near-significantly less (P=0.053, 0.085 respectively) with clindamycin than dapsone. No adverse event was reported.

Conclusion: Both clindamycin and dapsone were effective and safe for the treatment of mildto-moderate acne. Inspite of anti-inflammatory effects of dapsone, clinical response with reduction of inflammation was more with clindamycin



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