J Am Acad Dermatol. 2015 Apr;72(4):640-50. doi: 10.1016/j.jaad.2015.01.008. Epub 2015 Feb 1.

Efficacy and safety of diphenylcyclopropenone alone or in combination with anthralin in the treatment of chronic extensive alopecia areata: a retrospective case series.

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Abstract

BACKGROUND: Some patients with chronic extensive alopecia areata (AA) may be refractory to topical immunotherapy. Combination therapy is recommended for such patients. Efficacy and safety of a combination therapy with diphenylcyclopropenone (DPCP) and anthralin in chronic extensive AA is unknown.

OBJECTIVE: We sought to determine whether the combination therapy of DPCP and anthralin is superior to DPCP alone in chronic extensive AA.

METHODS: We retrospectively analyzed the efficacy, side effects, and relapse rates of DPCP (alone or with anthralin) in chronic extensive AA.

RESULTS: A total of 47 patients (22 were treated only with DPCP, and 25 with DPCP and anthralin for at least 30 weeks) were evaluated. Complete hair regrowth was observed in 36.4% and 72% of the patients who received DPCP and combination therapy, respectively (P = .01). Hair regrowth duration was shorter with combination therapy (P = .01). Regrowth rates of the eyebrows, eyelashes, and beard in patients on combination therapy were higher than those in patients on DPCP (P = .01). Side effects such as folliculitis, hyperpigmentation, and staining of skin, hair, and clothes were more common in combination therapy group.

LIMITATIONS: The retrospective design and small number of patients are limitations.

CONCLUSION: Combination therapy with DPCP and anthralin is superior to DPCP alone in chronic extensive AA.

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KEYWORDS: adverse effects; alopecia areata; alopecia totalis; alopecia universalis; anthralin; cignolin; diphencyprone; diphenylcyclopropenone; dithranol; folliculitis

PMID: 25653027 DOI: <u>10.1016/j.jaad.2015.01.008</u> [Indexed for MEDLINE]

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