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## Topical immunotherapy with diphenylcyclopropenone in the treatment of chronic extensive alopecia areata.

[Sotiriadis D](#)<sup>1</sup>, [Patsatsi A](#), [Lazaridou E](#), [Kastanis A](#), [Vakirlis E](#), [Chrysomallis F](#).

### Author information

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### Abstract

Highly variable results have been described for the use of topical diphenylcyclopropenone (DPCP) in the treatment of alopecia areata (AA). We enrolled 41 patients in a prospective open clinical trial. Of these, 17 patients had either AA totalis (AAT) or AA universalis (AAU), and 24 had severe alopecia (> 50% scalp involvement). After sensitization with DPCP 2% in acetone, progressively higher concentrations were applied once a week for a period of 6-12 months. Of the 41 patients, 38 (16 with AAT or AAU and 22 with extensive AA) completed therapy. Significant hair regrowth was observed in 15 of the 38 patients (39.5%) at 6 months: 5 with AAT or AAU (31.25%) and 10 with extensive alopecia (45.4%). The above results were sustained in 66.6% of patients for a 12-month-follow up- period. In our study, topical immunotherapy with DPCP proved to be an effective treatment, with prolonged therapeutic results.

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