

HAIR DISORDERS

## REPEATED MICRONEEDLING ENHANCES HAIR REGROWTH IN MEN WITH AGA

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**Introduction:** Finasteride and minoxidil show cosmetically acceptable new hair growth in modest percentage of patients with AGA

**Materials and Method:** Hundred cases of AGA were randomised into weekly microneedling treatment with twice daily 5% minoxidil lotion (Microneedling group); other group was given only 5 % minoxidil lotion. The 3 primary efficacy parameters assessed were: hair count, patient assessment and 7- point evaluation scale. A stereotactic positioning device was used assess global response.

**Microneedling Procedure:** A dermaroller of 1.5 mm sized needles was rolled weekly over the affected areas of the scalp till mild erythema was noted. All patients were instructed to apply minoxidil 24 hour post procedure.

**Results:**

**1. Hair counts**

The mean change in hair count at week 12 was significantly greater for the Microneedling group compared to the Minoxidil group  $P < 0.05$

**2. Investigator evaluation**

Forty patients in Microneedling group had +2 to +3 response on seven-point visual analogue scale, while none showed the same response in the Minoxidil group.

**3. Patient evaluation**

In the Microneedling group, 41 (82%) patients reported more than 50% improvement versus only 2 (4.5%) patients in the Minoxidil group. Unsatisfied patients to conventional therapy for AGA got good response with Microneedling treatment.

Other notable findings during the study period were: Initiation of new hair growth was noticeable by around 6 weeks in Microneedling group and by 10 weeks in Minoxidil group. Rapid growth in the existing hair was seen at week 1 in the Microneedling group than Minoxidil group.

**Conclusion:** Repeated microneedling enhanced regrowth of hair in men with AGA.

Microneedling is a safe and a promising tool in hair stimulation and also is useful to treat



hair loss refractory to Minoxidil therapy.

