



HAIR DISORDERS

## LOW LEVEL LASER FOR ANDROGENETIC ALOPECIA

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Background: Androgenetic alopecia (AGA) or male pattern hair loss (MPHL) is a form of alopecia which the most common found in male. Classification of MPHL divided by Norwood Hamilton criteria and it also used for treatment algorithm. One of the treatment choices for AGA is low level laser therapy (LLLT). Low level laser therapy is a non invasive method worked in mitochondria of bulge hair follicle to drive the hair enter the anagen phase. We reported a male with AGA treated by low level laser.

Observation: A male, 36 years old with a M shaped alopecia, no erythematous and scale, located in frontotemporal bilateral region. Hair pull test, trichogram, visual shedding scale (VSS) and laboratory examination was normal. Trichoscopy found a peripilar sign, miniaturization and vellus hair which supported the diagnosis of Norwood Hamilton stage III. The patient was treated by low level laser three times a week for 8 minutes. Treatment of AGA with LLLT (655 nm) worked by induction of proliferation, migration, oxygenation, adhesion and transition of telogen to anagen hair. Patient showed an improvement of density hair after eight weeks treatment and we still follow up the patient.

Key message: Low level laser therapy is a minimal invasive treatment for AGA, and the use of LLLT still needs a further study.

