

Women generally regard their hair loss as socially unacceptable. Therefore, hair loss in women produce greater psychological distress.¹

More than 50% of women over the age of 50 are affected by FPHL.²

The negative self image brought by hairloss often leads to reduction in quality of life and is the basis of psychiatric illness.^{1,3}



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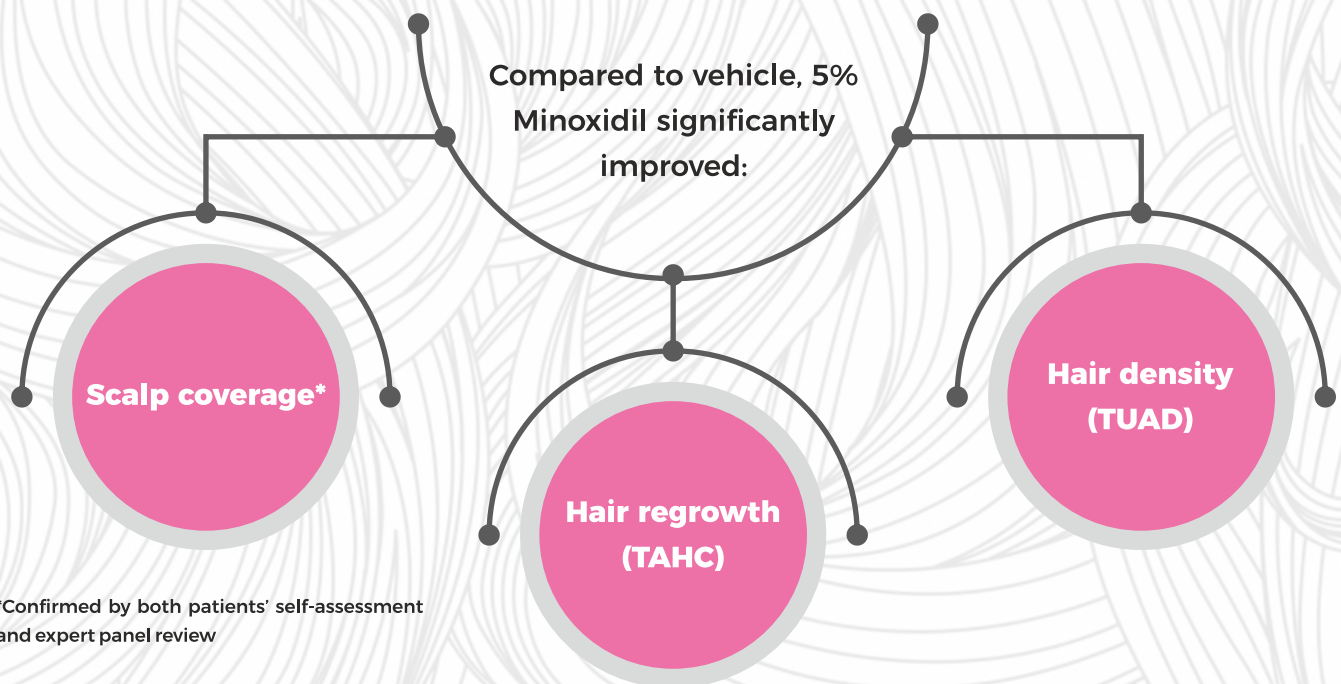
PROPHYLACTIC 5% MINOXIDIL

A key preoperative considerations in women undergoing surgical restoration for FPHL

- ⊙ Minoxidil has long been used to treat male pattern hair loss.⁴
- ⊙ However, in the year 2014, Health Canada and USFDA have approved products containing either 2% or 5% Minoxidil to treat FPHL. Since then, it is the most recommended treatment for FPHL.^{3,4}
- ⊙ Once-daily 5% Minoxidil is significantly as effective as twice-daily application of 2% Minoxidil in FPHL with significantly fewer adverse events and may offer advantages over twice-daily 2% Minoxidil with respect to convenience of use, improved compliance and better product acceptability.⁵

Proven clinical efficacy of Minoxidil 5% in FPHL

Phase III, randomized, double-blind, vehicle-controlled, parallel-group, international multicenter trial in women (aged ≥ 18 years) with FPHL (Grade D3-D6 on the Savin Density Scale), were treated with once-daily 5% Minoxidil for 24 weeks.⁶



Increase in hair regrowth (TAHC) by ($p < 0.0001$)
9.1 hairs/cm⁶

Increase in TUAD by ($p < 0.0001$)
644 $\mu\text{m}/\text{cm}^6$

In another trial by Lucky AW et al., 48-week treatment with 5% topical Minoxidil was found superior over the 2% topical Minoxidil in promoting hair growth in females with FPHL.⁷

Use of prophylactic 5% Minoxidil: A key preoperative considerations in women undergoing surgical restoration

Women are at a much higher-risk of post-operative hair shedding.⁸

In women who are continuously losing hair, medical therapy should be an important adjunct to a surgical option.⁸

In view of this, all women undergoing hair transplant, especially those who have a mild degree of miniaturization of hairs in the area to be transplanted should be put on prophylaxis of 6-week minimum course of Minoxidil 5% to minimize post-operative hair shedding.⁸

A Newer formulation of Minoxidil 5% with the advantage of natural ingredients: A multilevel nourishment factor enriched formulation

Newer 5% Minoxidil preparation is a special formulation, which contains natural ingredients. These ingredients along with Minoxidil 5% act at multilevel and protect and nourish hair to prevent hair fall and improve hair regrowth.

Minoxidil^{6,7}

- ⊙ Improves hair regrowth and scalp coverage.
- ⊙ Increases hair growth and reduces hair loss.

Cococin⁹

- ⊙ Potentiate the transition of telogen phase (shedding phase) to anagen phase (growth phase).
- ⊙ Increases follicle count in subcutis.

Allantoin¹⁰

- ⊙ It's keratolytic action treats and prevent dry and itchy scalp by conditioning and nourishing the scalp.
- ⊙ Anti-irritant properties reduce redness.
- ⊙ Improves the softness and elasticity of hair.

Bisabolol¹¹

- ⊙ Increases the permeation of other ingredients.
- ⊙ Possess anti-inflammatory action and soothing effect.

Conclusion

In females with male pattern hair loss, 5% Minoxidil significantly improves scalp coverage, hair regrowth and hair density. Moreover, 5% topical Minoxidil was found superior over 2% topical Minoxidil.

FPHL: Female Pattern Hair Loss; TAHC: Target Area Hair Count; TUAD: Total Unit Area Density; USFDA: United States Food and Drug Administration

References:

1. Thiedke CC. Alopecia in Women. *American Family Physician*. 2003;67(5):1007-1014.
2. Okram S, Basavaraj HB, Sathyanarayana BD et al. Clinico epidemiological study of female pattern hair loss. *International Journal of Advanced Research*. 2015;3(1):762-767.
3. Gupta AK and Foley KA. 5% Minoxidil: Treatment for Female Pattern Hair Loss. *Skin Therapy Lett*. 2014;19(6):5-7.
4. Thinning hair and hair loss: could it be female pattern hair loss?. Available at: <https://www.aad.org/public/diseases/hair-loss/types/female-pattern>. Accessed on 23.3.2021.
5. Blume-Peytavi U, Hillmann k, Dietz E et al. A randomized, single-blind trial of 5% minoxidil foam once daily versus 2% minoxidil solution twice daily in the treatment of androgenetic alopecia in women. *J Am Acad dermatol*. 2011;65(6).
6. Bergfeld W, Washenik K, Callender V et al. A Phase III, Multicenter, Parallel-Design Clinical Trial to Compare the Efficacy and Safety of 5% Minoxidil Foam Versus Vehicle in Women with Female Pattern Hair Loss. *J Drugs Dermatol*. 2016;15(7):874-81.
7. Lucky AW, Piacquadio DJ, Ditre CM et al. A randomized, placebo-controlled trial of 5% and 2% topical Minoxidil solutions in the treatment of female pattern hair loss. *Journal of American dermatology*. 2004;50(4).
8. Lam SM. Hair Loss and Hair Restoration in Women. *Facial Plast Surg Clin N Am* 28. 2020;205-223.
9. Natures best: Coconuts from sami labs. Available at: <https://www.coconutboard.in/images/Articles/presentation-samis-WCD-2013.pdf>. Accessed on 24/3/2021.
10. Allantoin. Available at: <https://www.growgorgeous.co.uk/ingredients/allantoin-for-hair.list>. Accessed on 24/3/2021.
11. Kamatou GPP, Viljoen AM. A Review of the Application and Pharmacological Properties of a-Bisabolol and a-Bisabolol-Rich Oils. *J Am Oil Chem Soc*. 2010;87:1-7.



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