

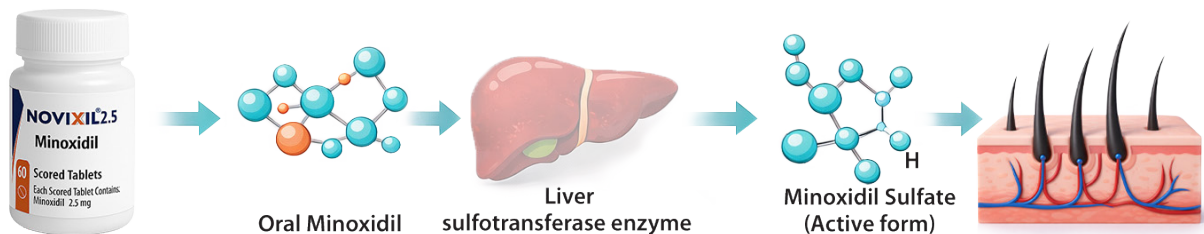
# The Preferred Alternative for Non-Responders to Topical Minoxidil

## Why Oral minoxidil is more effective than its topical form?

The answer is summarized in the Minoxidil Mechanism of Action.

To be effective, minoxidil must be metabolized to its active form **minoxidil sulfate**.

- The enzyme responsible for this conversion (sulfotransferase) is present in the **skin** and the **liver**.
- Studies have shown that there is a large variation in the amount of the enzyme in the skin of different people and even in different areas of the scalp in the same person. This explains why Topical Minoxidil is more effective for some people and less for others.<sup>(6)</sup>
- Recent studies suggest that **ORAL MINOXIDIL** can work with a lower activity of follicular sulfotransferase enzyme which is one of the major reasons for the inefficacy of Topical minoxidil. So oral minoxidil is a better alternative for individuals with lower follicular sulfotransferase enzyme activity levels.<sup>(4),(5),(12)</sup>



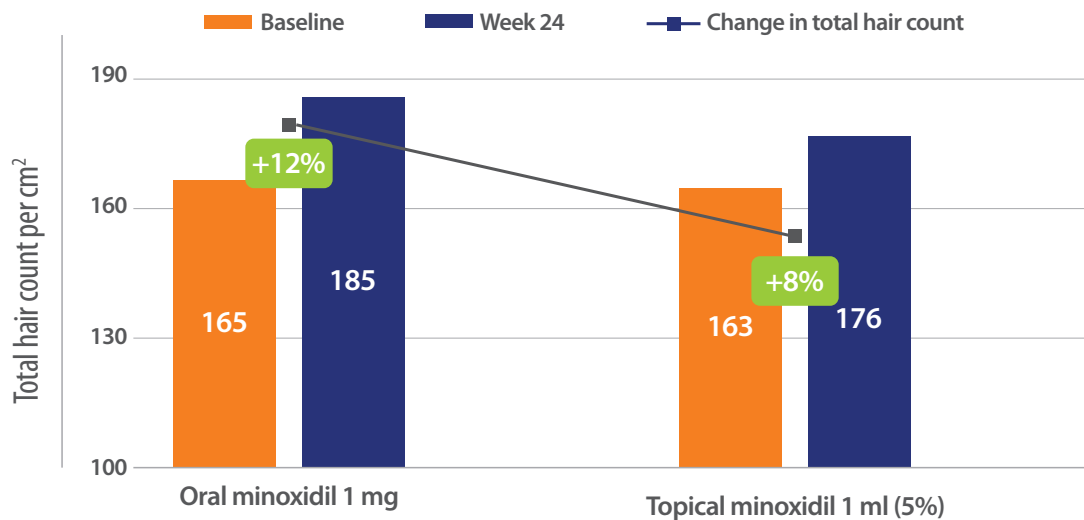
## Clinical images of a 30-year-old male AGA patient treated with 1 mg/day oral minoxidil after 6 months<sup>(13)</sup>



Standard overall photograph before and after treatment

# Oral vs. Topical minoxidil for female-pattern hair loss treatment

In a study conducted on 52 subjects with **female pattern hair loss**, it was determined that 1 mg of oral minoxidil was even more effective than 1 ml of 5 % topical minoxidil applied daily. The increase in hair density was predominant among the subjects using oral minoxidil (at week 24) an increase of 12% in total hair count was observed, while the topical minoxidil group had an increase of 8%. <sup>(4),(12)</sup>



Visualization based on research conducted by Ramos, P. M., Sinclair, R. D., Kasprzak, M., & Miot, H. A. (2020).



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Minoxidil Oral Scored Tablets

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#### References:

4. <https://hairverse.com/oral-minoxidil/> 5. <https://www.ncbi.nlm.nih.gov/books/NBK482378/> 8. <https://doi.org/10.1111/jocd.16086>, First published: 29 November 2023 12. Oral Minoxidil for Hair Loss: Efficacy, Dose, and Side Effects - ISHRS 13. <https://onlinelibrary.wiley.com/doi/10.1111/jocd.16086>

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