



## GRO - Scientific Topical Hair Loss Therapy

### Let's First Learn about what Causes Hair Loss?

Androgenic alopecia is a genetic condition in which an individual suffers from hair loss in the form of a receding hairline or an overall decrease in hair density and thickness. This condition is the most common form of hair loss. The signs of AGA usually become evident after puberty. Depending on the individual's sensitivity to androgens, the disease may manifest as a rapid decrease in the population of hair, or it may be chronic and progress slowly.

The primary hormone that stimulates male pattern baldness is dihydrotestosterone. Increased DHT levels don't cause hair loss unless your hair follicle cells become more sensitive to DHT molecules because of your genes. However, prolonged exposure to increased levels of DHT on hair follicles makes them weak, shot, and thin. As a consequence, the hair gets weak and falls off quickly.

The baldness of the frontal area and crown (or vertex) area are common locations for hair loss. Increased DHT levels do not affect the hairs on the sides and back, so their density remains almost the same.

DHT is the primary culprit in accelerating the process of androgenic alopecia. The main effect of DHT is the shortening of the hair growth cycle, resulting in the hair falling out of the follicles. Controlling DHT levels in your system is equivalent to handling your hair loss issues.

Using agents that balance DHT levels and maintain your hair cycles increases hair growth. These medical applications are now the first lines of defense against male pattern hair loss. Several such medications are now available only at the Tulsa Men's Clinics to keep DHT levels in check. The mode of action of most of these medications is to block the 5AR enzyme to reduce or stop the breakdown of testosterone into DHT.

### Our OMC Physicians have THE ONE Simple Answer to Hair Loss with Proven Results:

Hair GRO is our line of specially compounded topical products scientifically formulated for the indication of hair loss (androgenic alopecia). We offer one powerful prescription strength physician supervised solutions for any degree of hair thinning or loss:

- GRO: Formula 82F w Finasteride: Mild to Moderate Hair Loss

We chose this topical formulation because it works and works extremely well. In one study published in Dermatologic Therapy, researchers found that 94.1 percent of men with male pattern baldness who used finasteride and minoxidil at the same time saw improvements to their hair volume.

In fact, clinical trials showed that the progression of hair loss stopped in 86% of participants. Furthermore, 65% experienced a “substantial” increase in hair growth. In addition, as finasteride blocks DHT, the hormone that reduces the size of the hair follicle, it allows the hair to grow thicker and fuller. It can even stimulate growth in areas where the hair is extremely thin or appears fuzzy.

According to experts at Harvard University, finasteride is more effective than minoxidil for the treatment of hair loss. Up to two-thirds of people who use finasteride for male pattern baldness report good results in terms of new hair growth.

### **Hair GRO Compounded Medications:**

#### Topical Finasteride:

Finasteride is a 5 $\alpha$ -reductase inhibitor that works by decreasing the production of Dihydrotestosterone (DHT) in tissues in the scalp. It has been approved as a treatment for hair loss in the US since 1997.

**Formula 82F** contains Minoxidil and Finasteride along with a topical steroid, to improve efficacy and reduce irritation, complemented by other proprietary ingredients that improve the formulas’ overall effectiveness, stability and usability.

Topical finasteride significantly improves hair count compared to placebo and is well tolerated. Its effect is similar to that of oral finasteride, but with markedly lower systemic exposure and less impact on serum DHT concentrations.

Specifically: Our GRO product contain Finasteride and Minoxidil, Tretinoin and Fluocinolone Acetonide. Topical Minoxidil is a multifunctional drug and vasodilator that influences blood pressure and hair growth. Along with dilating blood vessels, the drug acts as an anti-hypertensive drug and thus poses significant effects on the hair growth pattern. By widening blood vessels and improving blood flow to hair follicles, this has been shown in studies to stimulate hair growth.

The National Institutes of Health NIH reported: Tretinoin was shown to stimulate some hair regrowth in approximately 58% of the subjects studied. NIH It enhances the absorption of medication. Tretinoin belongs to a class of medications called retinoids. It works by affecting the growth of skin cells.

The Mayo Clinic reports that Fluocinolone topical is used to relieve redness, itching, swelling, or other discomfort caused by skin conditions. Fluocinolone scalp oil is used to treat psoriasis of the scalp. This medicine is a corticosteroid (cortisone-like medicine or steroid).

In addition to lowering DHT, these medications vasodilate blood vessels and increase blood circulation to the scalp. This action gives hair follicles the necessary nutrients to make and strengthen new hair strands.

#### **Basic Properties:**

Non-sticky, propylene glycol-free base. GRO Formula 82F contains Finasteride and Minoxidil, along with a topical steroid to improve efficacy and reduce irritation, complimented by other proprietary ingredients that improve the formula’s overall effectiveness, stability and usability.

Hair GRO contains minoxidil which is a stimulator of hair growth to support finasteride. This medication works by blocking the DHT conversion from testosterone. DHT is the main hormone related to hair loss in men or women who are on testosterone replacement therapy.

### Application:

A baseline DHT level will first be drawn by your OMC Medical Team, so we can measure progress over time.

No Fuss No Muss...this product is not messy. The dosing of all of these products is 20-30 drops twice daily. Apply directly to scalp and do not rub the product in. Leave at least 3 minutes for the product to air dry and then you can style hair as usual. The formulation does not contain an oil base so no worries with oily appearance after putting this product on.

Avoid getting these medications, containing Tretinoin, in your eyes. If this medication gets into your eyes, flush with large amounts of water. Call your doctor if eye irritation develops. Wash your hands after using the medication to avoid accidentally getting it in your eyes.

### No Major Side Effects:

Side effects are minimal since this product is topically applied, on the scalp you may see some redness but this is usually in lighter complexions and lighter hair, this is not a true side effect it is actually the product stimulating the blood vessels in the scalp.

On average, only 4% of the individuals using *oral* finasteride have experienced side effects.

Topical solutions of these medications pose much less concern than oral versions. This happens because the topical form of Finasteride is 15 times less likely to get into the blood than the oral form. But the efficacy and effectiveness of the medicine remain the same.

Some side effects have been reported of using these medications are depression, fatigue, anxiety, lethargy, erectile dysfunction, decreased libido, and changes in sperm parameters. The side effects that could arise from using topical Minoxidil may include dizziness, fainting, an allergic reaction, or trouble breathing.

Mild side effects Tretinoin may include burning, itching, stinging, scaling, or redness of the skin, chapping or slight peeling of the skin (mild), mild skin color changes, mild dryness and mild dryness.

Report any serious or lingering side effects to your OMC Physician.

### Contraindications:

The only contraindications for these products are prohibited use with pregnancy and pre-menopausal women. Pregnant women should avoid these products. Finasteride orally is not recommended for females, however, since these are topical products, they can be used by both men and more suitable for post-menopausal women.

