

Pharmacy Solutions Created A Uniquely Formulated Treatment For Hair Loss

67 patients were treated with topical cetirizine 1%



85 Patients

Took part in a study published in 2018 in the Journal of Dermatological Treatment.

Topical Cetirizine

Showed a significant INCREASE in total hair density, terminal hair density and diameter variation.

ACTIVE INGREDIENTS

Minoxidil 2%, Caffeine 0.5%, Levocetirizine 0.5% foam

SYNERGISTIC INACTIVE INGREDIENTS

provide nutrients, sebum reduction, and emollients to the final formulation

Minoxidil: a prodrug, requiring sulfation to its active form, minoxidil sulfate to promote hair growth. Multiple modes of action; most notably increased cutaneous blood flow as well as androgen receptor and potassium channel modulation.

Levocetirizine: active isomer of cetirizine; a prostaglandin D inhibitor. Also may modulate inflammatory mediators contributing to reduction in hair growth. Prostaglandin D has been determined to be involved in preventing hair growth. Topical 1% cetirizine was found to promote significant hair growth in a limited clinical study.

Caffeine: may induce sulfotransferase in skin. Also, caffeine alone as a 0.2% topical solution was found non-inferior to 5% minoxidil solution and is supported with in vitro studies showing hair follicle growth.

Pharmacy Solutions have compiled recent Androgenetic alopecia (AA) research and coupled the results of various ingredients with cutting edge drug delivery technology to provide a foam that addresses the multiple influences of hair loss.

Pharmacy Solution's Formulation

The formulation is, in essence, a mild cosolvent system that evaporates after application, thereby transforming into a myriad of flexible vesicles that wrap the active ingredients in a phospholipid/ethanol/surfactant composite to help drive the ingredients into the skin and hair follicles. Vesicle formation was confirmed via light microscopy (1000x) and this particular delivery system has provided a significant advantage in the transport of numerous pharmaceuticals into and through the skin. In summary, our new foam formulation is elegant, formulated with EWG class (1-3) excipients, propellant free, and addresses the shortcomings of the older commercial formulations by incorporating contemporary research in androgenetic alopecia, and topical drug delivery as well.

Formulation Benefits

- Formulated at the scalp and is pH friendly, which will help minimize scalp irritation.
- This is the first product to combine these three active ingredients, which may synergistically promote hair growth.
- Uses advanced drug delivery technology through the inclusion of synergistic inactive ingredients resulting in formation of microscopic vesicles that enhance drug delivery into the skin and possibly the hair follicle.
- Previous studies of this technology have demonstrated enhanced skin deposition, transport, and clinical effect of all actives tested and is expected to provide a similar enhancement in hair growth.

Formulation Information

Formulation: Minoxidil 2%, Caffeine 0.5%, Levocetirizine 0.5% foam

Directions: Massage 1-2 pumps of foam into affected areas of scalp twice daily. If possible, moisten scalp before applying.

Side effects: Redness, transient burning/irritation are possible.

Allergy warnings: Avoid if allergic to soy products. Also avoid if patient had hypersensitivity reaction to minoxidil, levocetirizine (or cetirizine), or caffeine previously.

Quantity: 60mL