

# HAIRGROW<sup>®</sup>

**Hairgrow** topical solution is a hair growth stimulant. The active ingredient is minoxidil in a concentration of 2 % (20 mg minoxidil per ml) in a solution of alcohol 60% (v/v), propylene glycol, and water.

## PHARMACOLOGY :

Minoxidil topical solution stimulates hair-growth in individuals with androgenetic alopecia ( male pattern baldness ) . The exact mechanism of action of minoxidil is unknown . Minoxidil is poorly absorbed from normal intact skin , about 1 . 4 % of the dose might reach the systemic circulation . Serum minoxidil levels resulting from topical application are controlled by the drug's percutaneous absorption rate . Following cessation of topical dosing of minoxidil 2% , approximately 95 % of systemically absorbed minoxidil is eliminated within four days through renal excretion .

## INDICATIONS :

**Hairgrow** (minoxidil 2%) is medically proven to regrow hair. Its main uses are in the following conditions:

Hair loss process, as in:

- Alopecia androgenetica expressed in males as baldness of the vertex.
- Alopecia areata expressed as an inflammatory patchy loss of hair involving beard and scalp.
- Diffuse hair loss or thinning of the hair in the frontoparietal areas in males and females.
- **Hairgrow** topical solution is appropriate for those experiencing gradual hair loss.

## CONTRAINDICATIONS :

**Hairgrow** is contraindicated in those patients with a history of hypersensitivity to the drug or its components. Safety and effectiveness in males and females under 18 years of age and over 65 years of age have not been established .

## SIDE EFFECTS :

The most common reactions are dermatological, such as : irritation, erythema, flushing , dermatitis, dry skin, and burning sensation. Rarely reported adverse effects include allergic reactions, dizziness, tingling sensation, light headedness, weakness, neuritis, oedema, eye irritation, altered taste, ear infection and visual disturbances.

## DOSAGE AND ADMINISTRATION :

Hair and scalp should be dried prior to **Hairgrow** application . A dose of 1 ml ( the equivalent of eight sprays ) should be applied to the vertex or affected area twice daily . The total daily dosage should not exceed 2 ml. Continuous daily application for four months or longer may be required before evidence of hair regrowth can be expected. Onset and degree of hair growth may be variable among patients. Continuous application of **Hairgrow** is essential to sustain hair regrowth.

## METHOD OF APPLICATION :

- Aim the pump spray nozzle to the bald area of the scalp. Press the pump once and spread **Hairgrow** with fingertips to cover all the bald area. Repeat for a total of 8 times to apply a dose of 1 ml of solution.
- Do not use a hair dryer to speed up the drying of **Hairgrow** because this may decrease its effectiveness .
- Wash hands thoroughly after applying **Hairgrow**.

## OVERDOSAGE :

Increased systemic absorption of minoxidil may potentially occur if used more frequently, or in larger doses than prescribed. There are no known cases of minoxidil overdosage resulting from administration of **Hairgrow**. Accidental ingestion of minoxidil may result in producing systemic effects related to cardiovascular system such as hypotension , fluid retention and tachycardia . Fluid retention can be managed with appropriate diuretic therapy, tachycardia can be controlled by administration of beta-adrenergic blocking agent. If encountered, hypotension should be treated by intravenous administration of normal saline .

## PRESENTATION :

**Hairgrow** topical solution is available in :  
Bottles of 50 ml pump spray applicator . Each 1 ml contains 20 mg minoxidil .

## STORAGE CONDITIONS :

Store in a dry place at controlled room temperature between 15 - 30° C .

### THIS IS A MEDICAMENT

- Medicament is a product which affects your health , and its consumption contrary to instructions is dangerous for you.
- Follow strictly the doctors prescription, method of use and the instructions of the pharmacist who sold the medicament.
- The doctor and the pharmacist are experts in medicine, its benefits and risks.
- Do not by yourself interrupt the period of treatment prescribed for you .
- Do not repeat the same prescription without consulting your doctor.