About OMICS Group

OMICS Group is an amalgamation of Open Access Publications and worldwide international science conferences and events. Established in the year 2007 with the sole aim of making the information on Sciences and technology 'Open Access', OMICS Group publishes 500 online open access scholarly journals in all aspects of Science, Engineering, Management and Technology journals. OMICS Group has been instrumental in taking the knowledge on Science & technology to the doorsteps of ordinary men and women. Research Scholars, Students, Libraries, Educational Institutions, Research centers and the industry are main stakeholders that benefitted greatly from this knowledge dissemination. OMICS Group also organizes 500 International conferences annually across the globe, where knowledge transfer takes place through debates, round table discussions, poster presentations, workshops, symposia and exhibitions.

OMICS International Conferences

OMICS International is a pioneer and leading science event organizer, which publishes around 500 open access journals and conducts over 500 Medical, Clinical, Engineering, Life Sciences, Pharma scientific conferences all over the globe annually with the support of more than 1000 scientific associations and 30,000 editorial board members and 3.5 million followers to its credit.

OMICS Group has organized 500 conferences, workshops and national symposiums across the major cities including San Francisco, Las Vegas, San Antonio, Omaha, Orlando, Raleigh, Santa Clara, Chicago, Philadelphia, Baltimore, United Kingdom, Valencia, Dubai, Beijing, Hyderabad, Bengaluru and Mumbai.

4th International Conference and Expo on

Cosmetology & Trichology

June 22-24, 2015 Philadelphia, USA

A Novel Oral Supplement Androgenic Alopecia

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CEO & Chief Mentor
Akumentis Healthcare Ltd. India

Topics to be covered

- Androgenic Alopecia Introduction
- Hair loss scientific aspects
- The Hamilton-Norwood Scale
- Gainmore™ M: A novel oral supplement to treat androgenic alopecia

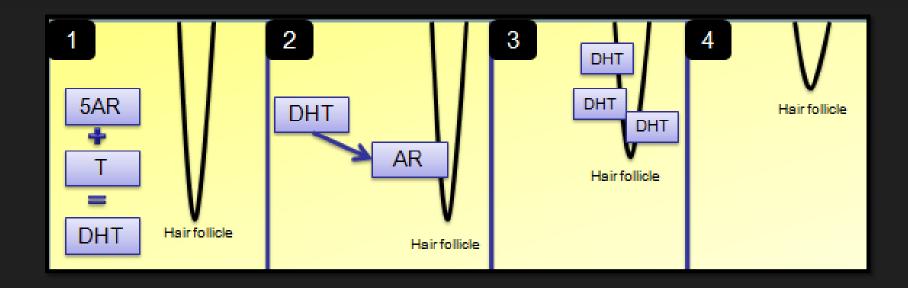


Gainmore[™] M Study

Androgenic Alopecia - Basics

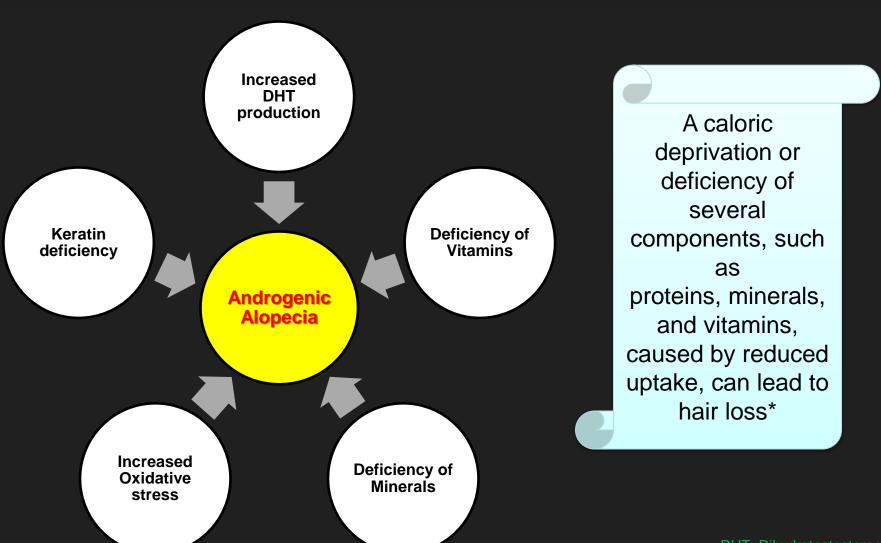
- Also known as Androgenetic Alopecia (AGA) or Male pattern hair loss (MPHL) is a genetically determined disorder
- Characterized by increased level of local androgen metabolite (Dihydrotestosterone) and increased androgen receptor binding in genetically predisposed men
- Considered to be the most common type of baldness characterized by progressive hair loss
- Can affect all races, but the prevalence rates vary
 - In the Indian context, a population based study of 1005 subjects showed a **58% prevalence of AGA** in males aged 30-50 years

Hair loss scientific aspects



- The enzyme 5 Alpha-Reductase (5-AR) converts Testosterone(T) to Dihydrotestosterone (DHT)
- 2. Dihydrotestosterone (DHT) binds to Androgen Receptors (AR)
- DHT causes increased hair loss and gradual miniaturization of the hair follicle.
- 4. Over time the hair follicles die and the scalp becomes visible.

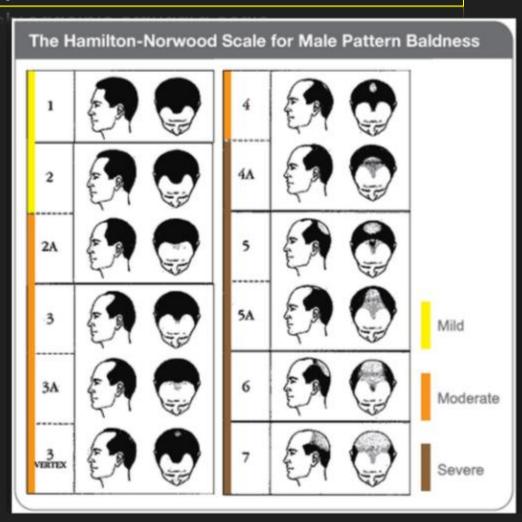
Overall causes of Androgenic Alopecia



The Hamilton-Norwood Scale

Widely accepted, accurate and reproducible standard scale

- Type 1: No hair loss
- Type 2: Minor recession of the frontal hairline
- <u>Type 3</u>: further frontal loss, and is considered 'cosmetically significant
- Type 4 to 6: further frontal and vertex loss
- Type 7: only the occipital scalp region maintains significant amounts of hair.



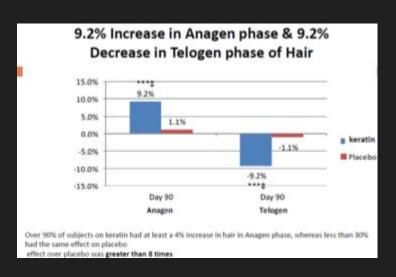
Gainmore™ M – A novel proprietary blend

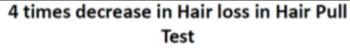
Parameters	Ingredient
Hair Protein	Oral Keratin
Vitamins	L-methylfolate
	Biotin
	Niacinamide
Minerals	Zinc
	Selenium
Antioxidant	Grape Seed Extract
DHT Inhibitor	Saw palmetto

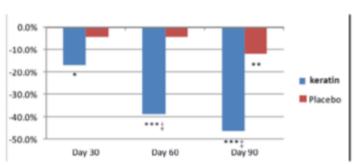
Dosage: 1 capsule in a day for a duration of 6 months

Solubilized Oral Keratin

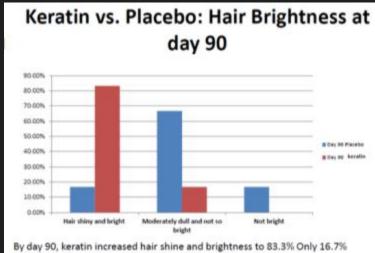
 Bioavailable ingestible keratin capable of binding to the keratin which comprises the majority of hair







- Hair Pull Test evaluates hair loss from every day activity such as washing & brushing
- 100% of keratin group had minimum decrease in hair loss of at least 20%, compared to placebo where only 37.5% showed a reduction of 20% or more



shiny hair were observed in Placebo after 90 days

Saw palmetto

1. Inhibits formation of DHT

- Saw palmetto or Serenoa repens acts as inhibitor of DHT
- Increases the activity of 3-alpha-hydroxysteroid-dehydrogenase.
 This enzyme is responsible for the conversion of DHT to weaker androgen androstanediol

2. Inhibits binding of DHT to AR

- Blocks approximately 50% of the binding of DHT to receptors in the target cells
- Strongly inhibits the action of 5 alpha-reductase
- Unlike finasteride, a synthetic 5 alpha-reductase inhibitor, Sernoa repens does not seem to have the side effects of loss of sex drive or impotence

Other ingredients & their role

An active form of folic acid required for L-methylfolate hair follicle growth¹ An essential coenzyme for several **Biotin** important enzymes for hair growth² > Activates the oxygen transport to hair **Niacinamide** follicles thus stimulation of hair growth³ > A potent inhibitor of hair follicle Zinc regression, and accelerates hair follicle recovery⁴ Increases selenoproteins responsible Selenium for keratinocyte function⁵ Shows remarkable hair-cycle-converting **Grape seed** activity from telogen to anagen phase⁶ extract

Gainmore™ M: An oral supplementation in men with Androgenic Alopecia for reduction in hair loss & new hair growth

hair loss & new hair growth

Study conducted at Dept. of Dermatology and Venerology, Maulana Azad Medical College (MAMC), Delhi, India.

Dosage: 1 Gainmore™ M capsule in a day for a duration of 6 months

Study design

INCLUSION CRITERIA

- Men with Androgenetic alopecia as classified by Norwood-Hamilton classification scale.
- Total number of men: 50
- Age: Men aged 18 to 41 years
- Type: mild to moderately severe vertex MPHL (Male pattern hair loss) according to a modified Norwood/Hamilton classification scale (II/II Vertex, III/III Vertex, IV or V)

EXCLUSION CRITERIA

- Significant abnormalities on screening physical examination or laboratory evaluation
- Surgical correction of scalp hair loss,
- Topical minoxidil use within one year,
- Use of drugs with androgenic or antiandrogenic properties,
- Use of finasteride or other 5alpha reductase inhibitors,
- Alopecia due to other causes
- Symptomatic cardiac problems, uncontrolled hypertension, autoimmune disorders

Efficacy & Safety measurements

- Hair counts, obtained from colour macro photographs of a 1-inch diameter circular area (5.1 cm²) of clipped hair (length 1 mm).
 12 pixel camera
- 2. Patient self assessment of scalp hair
- 3. Independent assessment of standardized clinical global photographs of the vertex scalp by a panel of three dermatologists who are blinded to treatment and experienced in photographic assessment of hair growth, using the standardized 7-point rating scale.

Safety measurements

Clinical and laboratory evaluations, and adverse experience reports.

reports.

Before



After



Before



After



Before



After



Before



Hair counts

Grade 1 (0-25%)

Grade 2 (25-50%) [at the end of 3½ months]

[at the end of 3 % months]

Grade 3 (50-65%) [at the end of 4 months]

at the end of 4 months]

Grade 4 (>65%) [at the end of 6 months]

Lat the end of 6 months

Results

- 50% of the participants reported a noticeable decrease in hair loss after 45 to 60 days of treatment.
- At the 6th month there is a improvement in the hair growth from a mean of >65%.
- It is advisable to prolong the therapy more than 6 month to 9 month.
- By the end of the study majority of men reported new growth of hair.

Side effect	No. of patients
Gastric discomfort	1
Hyperacidity	1
Sexual dysfunction	1

Conclusions:

Gainmore™ M oral supplementation in men with androgenic alopecia is effective in reducing hair loss and improving hair growth

Limitations of the study

- The study is an observational ongoing trial, thus no statistical analysis done
- No comparative head-to-head study conducted with available oral formulations for alopecia
- Study involved only Indian subjects
- Further study involving large number of population required for conclusive data



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Cosmetology, Trichology & Aesthetic Practices
On

April 25-27, 2016 at Dubai, UAE

http://cosmetology-trichology.conferenceseries.com/