How to defeat male pattern alopecia in a trompeur de femmes, who loves to abuse of libido boosters?

Lorenzo Martini

Department of Histology and Embryology, University of Siena, Via A. Moro 2, 53100 Siena, Italy

Corresponding author: Lorenzo Martini, M.Sc., E-mail: martini163@libero.it

Sir,

No particular expertise is required to recognize the alopecia androgenetica in male [1], for the recession of the hair line, loss of hair from the crown and the bald pate are more than familiar. In the affected areas the hairs become steadily shorter and finer and finally cosmetically useless.

Almost a third of the follicles may disappear at all and the reduction in the length of the growing periods reflected in the increased ratio of telogen to anagen in samples of plucked hair.

Alopecia androgenetica is commonly inherited, as an autosomal dominant trait, but always it manifests only in presence of male hormones.

Eunuchs retain their scalp hair even when they have a family history of baldness, unless they are treated with testosterone [2].

Though a correlation with hairiness of the chest has been suggested [1], baldness does not seem to be associated with other indices of masculinity, such as sebum secretion, muscle size and body hair in general [3].

It is suggestive to notice that bald scalp has a greater capacity to convert 5α dehydrotestosterone than non-bald scalp [4], anyway the key to understand the phenomenon of baldness lies in the field of steroid metabolism, even if hypothesis of administering female hormones to men suffering from male pattern alopecia is not plausible.

Manifold trials with 5 alpha reductase inhibitors have been proposed even most recently (it is supervacuous to stress that the route of administration should be the topical one), for instance: Zinc hydrosoluble salts [5] Riboflavin (vitamin B2) [6] Azelaic acid β-sitosterol (and many other phytosterols as well) Polyphenols [7] Alizarin (from Rubia tinctoria) Curcumin Green tea catechins, including (-)-epicatechin-3-gallate, and (-)-epigallo-catechin-3-gallate (EGCG) [8]

Valoneic acid dilactone and gallagyldilactone are two hydrolysable tannin polyphenols isolated from the heartwood of Shorea laeviforia [9] and oaks species such as the North American white oak (Quercus alba) and European red oak (Quercus robur) are inhibitory [10].

Angelica koreana

Garden Balsam or Rose Balsam (Impatiens balsamina) Pollen of Turnip, turnip rape, fast plants, field mustard, or turnip mustard (Brassica rapa)

Dodder (Cuscuta reflexa) Euphorbia jolkinii Lingzhi mushroom or Reishi mushroom (Ganoderma lucidum)

Ganoderic acid or Ganoderol B are thought to be the compounds in the mushroom that are specifically active.

Chinese Knotweed (Polygonum multiflorum), contains resveratrol-like Stilbenoids.

Black Pepper leaf extract (Piper nigrum) Red Stinkwood (Pygeum africanum) Saw Palmetto (Serenoa repens), active substance possibly lauric acid [11].
The berries of saw palmetto (Serenoa repens), a small palm native to the south east United States, possess a dual 5α-reductase inhibition activity, due to their high content of phytosterols: β-sitosterol, stigmasterol, lupeol, lupenone, and cycloartenol. Permixon® was launched in Europe in 1984 but has no FDA approval. The lipido-sterol extract markedly inhibits both the human isoenzymes. Type 1 isoenzyme is noncompetitively (Ki = 7.2 μg/mL) and type 2 isoenzyme uncompetitively (Ki = 4.9 μg/mL) inhibited.

Pine (Pinus sp. resin, active substance abietic acid) Japanese hedge parsley (Torilis japonica) Eastern Arborvitae, Northern Whitecedar (Thuja occidentalis) Spore of Japanese climbing fern (Lygodium japonicum)

Certain unsaturated fatty acids keeping on account that the relative inhibitory potencies are, in decreasing order: Gamma-Linolenic acid, alpha-linolenic acid, linoleic acid, palmitoleic acid, oleic acid, and myristoleic acid [12].

Medium chain fatty acids such as those found in coconut and the kernel of many palm fruits.

We have recruited a man (49 y. old) who likes to be defined a “latin lover” as he has been always a trompeur de femmes since he was a pre-pubertal child and observed the very first manifestations of androgenetica when he was 21 y. old.

He uses all the types of possible aphrodisiacs to induce in himself an increasing appetite for sex intercourses (yohimbine, damiana turnera extract, sildenafil and tadalafil compounds at massive dosages that may permit him to have 4 or more sexual encounters for day) with diverse women.

He is accustomed too to spread onto his poor hair scalp hairdressing gels and brilliantines, that are considered [13] exceptional inducers of baldness in man.

We prayed him to massage onto his scalp affected by baldness twice a day a cosmetic containing four 5α reductase inhibitors, dispersed in the Macassar oil (an ancient formula by Dr. Rowland), that foresees the presence of essential oils of cloves, cinnamon, rose églantine and alkanna concrete in olive oil.

The 5α reductase inhibitors were:

- black pepper oil (piper cubeba seed oil) (1.5%)
- curcumin (0.5%).

The experimentation lasted three months, and I have always wanted to be sure that he used the remedy we gave him everyday.

Amongst the manifold ways to clinically state the degree of hair re-growth, we have chosen the histological H&E test, efefctuated by the aids of a microscope.

It is known that Hematoxylin dyes the cellular nuclei blue, while eosin dyes the non-nuclear cells and structures pink/orange, such as cytoplasm and collagen. Combined, these dyes assist in recognizing the basal cells or germ layer: Cells rest on the dermis; blue nuclei are visible and this is where mitosis occurs and cells divide.

This clearly represents the phenomenon of the restoring of matrix of the hair follicle.

It is mandatory to effectuate a previous histological test, and to repeat it picking some hair from the scalp every 2 weeks for all the period of the experimentation.

The very first microscopic evaluation on hair revealed that, due to testosterone, numerous hair follicles were in the telogen phase as they showed characteristics of telogen follicles i.e. being short and hollow, presence of necrosis, more destroyed follicles, follicle shrinkage means diameter decreases and not deeper. Just after the first week the number of follicles in anagen phase was considerably increased and the number of follicles in telogen phase was decreased because surely the cosmetic item has inhibited the action of testosterone on hair follicles. The increase in the number of hair follicles was also noted. At the evaluation of the second week follicles showed characteristics of anagen follicles i.e. longer follicle hair and follicles were dense, less cell necrosis, and present deeper.

It can be asserted that the number of follicles in hair growth phase increased with duration of treatment. The hair follicle density and anagen/telogen ratio (A/T ratio) was calculated and plotted in the following Table 1.

**RESULTS**

It is evident that after only two weeks of treatment one may assert that hair restoration is almost complete, as far as the anagen/telogen ratio is concerned.
The Savin scale is a objective method of investigation on the hair re-growth (it is used generically for testing the hair re-growth women) but I attempted to use it even for my volunteer.

The scale ranges from degree III (complete baldness of the pate) to II-2, II-1, I-4, I-3, I-2 and finally I-1 (complete restoration of hair scalp).

We could affirm that after two weeks the degree II-1 is reached and after two months (8 weeks of treatment) degree I-2 is achieved completely.

As far as the blood testosterone, the first measurements reveal an amount of 1103 ng/dl meanwhile at the end of the experimentations, this value decreased to 256 ng/dl

**REFERENCES**


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**Table I:** Values scored after one and two weeks of experimentations by H and E test on hair picked from hair scalp of the volunteer

<table>
<thead>
<tr>
<th>Day of the performing of H and E tests</th>
<th>Hair follicular density (no./mm)</th>
<th>Anagen to telogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>First evaluation (at day 0)</td>
<td>1.5±0.90</td>
<td>1:3.16</td>
</tr>
<tr>
<td>After 1 week (7th day)</td>
<td>3.3±0.77*</td>
<td>1.22 :1</td>
</tr>
<tr>
<td>After 2 weeks (14th day)</td>
<td>2.75±0.75**</td>
<td>1.12:1</td>
</tr>
</tbody>
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