Management of Dermatology

in Nutshell

Ranjan C Raval Krina B Patel





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Androgenic Alopecia and Hirsutism

Neela Bhuptani, Bharati Patel, Riddhi Kotecha, Pratik Sheth

■ MANAGEMENT OF ANDROGENETIC ALOPECIA

Introduction

Androgenetic alopecia (AGA) or hereditary baldness affects almost 50% of men > 40 years of age and almost 75% of women > 65 years. AGA is characterized by thinning of hair in the frontal and vertex areas of the scalp with minimal loss of marginal parietal and occipital hair. Women present with widening of the central parting followed by gradually increasing diffuse thinning of hair over the scalp. The diagnosis of AGA in men is usually not difficult.

■ THERAPEUTIC APPROACH

Counseling

- Patient should be counseled about the fact that AGA is the genetically determined process and can only be slowed down
- All the treatment options like medical, surgical, cosmetic, supportive (vitamins, amino acids and trace elements) and others (platelet rich plasma therapy, gene therapy, stem cell hair multiplication) should be explained with advantages and disadvantages of each (with realistic expectations)
- > Adequate diet should be maintained.

Androgenic Alopecia and Hirsutism

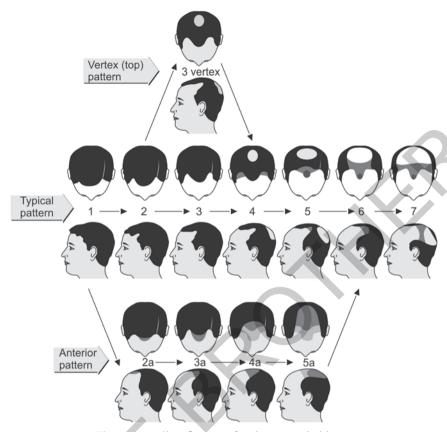
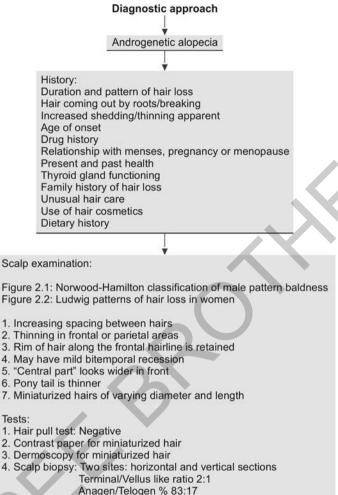
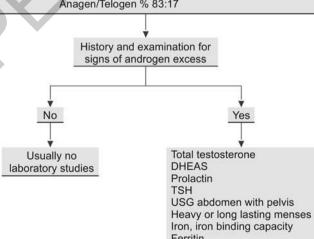


Figure 2.1: Classification of male pattern baldness

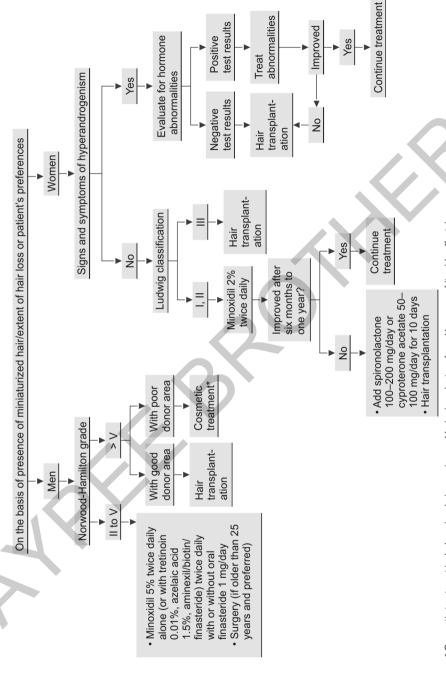


Figure 2.2: Ludwig patterns of hair loss in women





Androgenic Alopecia and Hirsutism



* Cosmetic treatment includes wigs, hair weaving and hair piece (not preferred because of its side effects)

MULTIPLE CHOICE OUESTIONS

- 1. Hair transplant surgery is indicated in:
 - a. Norwood-Hamilton grade V
 - b. Norwood-Hamilton grade greater than V
 - c. Norwood-Hamilton grade greater than IV
 - d. Norwood-Hamilton grade III-V
- **2.** Result of hair pull test is ______ in AGA. (Positive/Negative)
- **3.** Scalp biopsy findings in AGA are:
 - a. Terminal/vellus like ratio 2:1
 - b. Anagen/telogen % 83:17
 - c. Both of the above
 - d. None of the above
- **4.** Investigations recommended for female patients of AGA with signs of virilization are:
 - a. Serum testosterone, DHEAS
 - b. Serum iron, iron binding capacity, serum ferritin
 - c. Serum TSH
 - d. All of the above
- **5.** Ludwig scale type III shows:
 - a. Thinning at the crown of head
 - b. Nearly full hair loss at the crown of head
 - c. Thinning of hair beginning at the center part
 - d. None of the above

Answers

- 1. b 2. Negative
- 3. c

■ MANAGEMENT OF HIRSUTISM

Introduction

Hirsutism is defined as excessive terminal hair that appears in a male pattern (i.e. sexual hair) in women. Hirsutism affects 5–10% of women. Unwanted hair growth can be associated with significant psychosocial consequences that negatively affect patients quality of life.

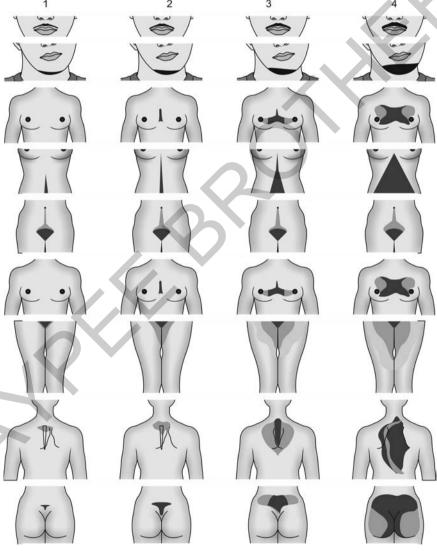
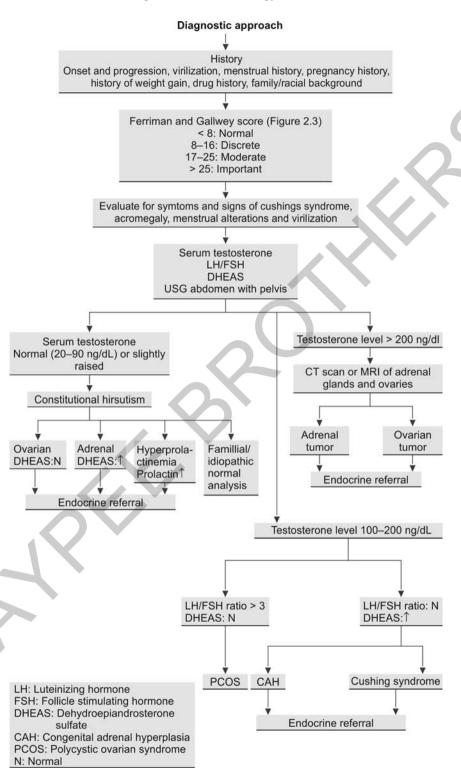
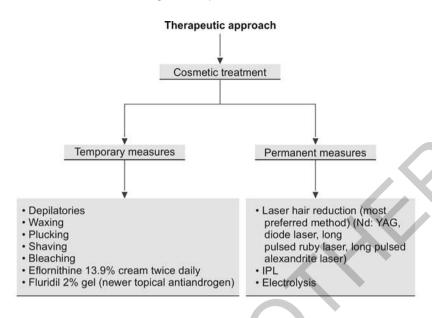


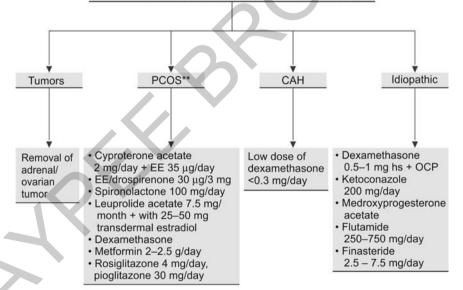
Figure 2.3: Degrees of Hirsutism-Ferriman and Gallwey score for 9 sites (upper lip, chin, chest, arms, upper and lower abdomen, upper and lower back, thigh: score for density of terminal hair at each site graded 0–4)



Androgenic Alopecia and Hirsutism



Treatment of hirsutism according to the underlying cause*



*The drugs reduce the facial hair diameter but cosmetic measures may still be needed

**Diet, exercise and weight reduction in obese patients

PCOS: Polycystic ovarian syndrome CAH: Congenital adrenal hyperplasia EE: Ethinyl estradiol

MULTIPLE CHOICE QUESTIONS

- 1. Hirsutism is defined as excessive ______ hair that appears in a male pattern (i.e. sexual hair) in women.
 - a. Vellusb. Terminalc. Lanugod. Intermediate
- 2. Total number of sites included in Ferriman and Gallwey score are:
 - a. 7 b. 8 c. 9 d. 6
- 3. Hormonal findings in polycystic ovarian syndrome are:
 - a. LH/FSH ratio < 3 and DHEAS normal
 - b. LH/FSH ratio > 3 and DHEAS normal
 - c. LH/FSH ratio < 3 and DHEAS raised
 - d. LH/FSH ratio > 3 and DHEAS decreased
- Cosmetic treatment is not required for patients of hirsutism with underlying cause.
 True/False.
- 5. Which of the following is a temporary treatment measure for hirsutism?
 - a. Electrolysis

- b. Long pulsed Nd: YAG laser
- c. Long pulsed ruby laser
- d. Eflornithine 13.9% cream

Answers

- 1. b
- 2. c
- 3. b
- 4. False
- 5. d

This novel book provides rapid and easy review of management of common cutaneous dermatoses; for both students and practitioners. In an era of tremendous expansion of medical field, a review of a particular subject may demand surfing of various media. This book is compiled with the aim of giving rapid, primary guidelines in regards to diagnosis and treatment—encompassing management as a whole. We have tried to cover all common diseases in day-to-day dermatology practice from acne and alopecia to vesiculobullous disorders.

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was Scientific Secretary for DERMACON, 2013. She has been elected as a Joint Secretary, IADVL from 2014.

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Shelving Recommendation **DERMATOLOGY**

