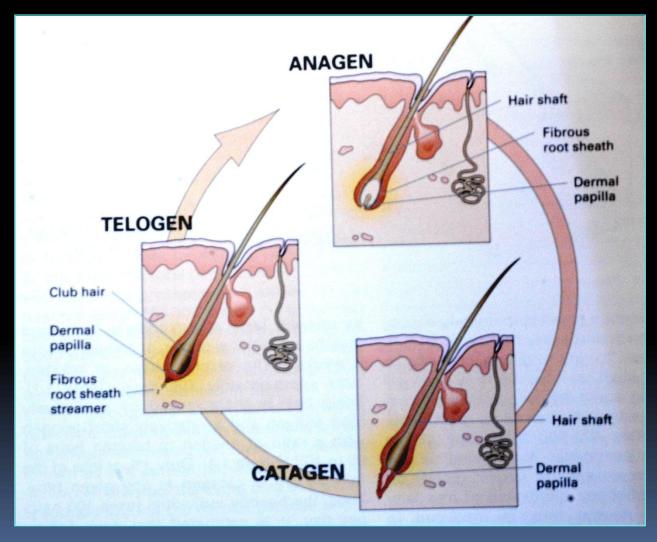


Hair Types

- Vellous
- Terminal
- Androgen dependant terminal

Hair Cycle

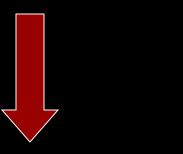


Hair growth is very dynamic

How many hairs in the body?
5 millions hairs in the body
100,000 in the scalp

Growth rate? 0.3mm/day for scalp hair

<u>Alopecia</u>



None Scaring (Reversible)



Scaring (Irreversible)

Nonscarring alopecia

Scarring alopecia

sarcoidosis

Telogen effluvium Anagen effluvium Alopecia areata Androgenetic alopecia Hair shaft abnormalities Trauma (e.g., traction) Infectious disorders (e.g., dermatophyte, syphilis) Systemic diseases (e.g., thyroid, systemic lupus erythematosus, iron-deficiency anemia) Intoxications (e.g., vitamin A, Bismuth) Nutritional deficiencies

(e.g., zinc, biotin)

Medications

Developmental defects (e.g., Aplasia cutis) Infections (bacterial, viral, fungal) Trauma (irradiation, thermal or caustic burns) Neoplastic disorders Lichen planus (lichen planopilaris), lupus erythematosus, morphea, scleroderma,

Keratosis pilaris atrophicans Folliculitis decalvans Dissecting cellulitis of the scalp Acne keloidals Pseudopelade Alopecia mucinosa

Alopecia Areata

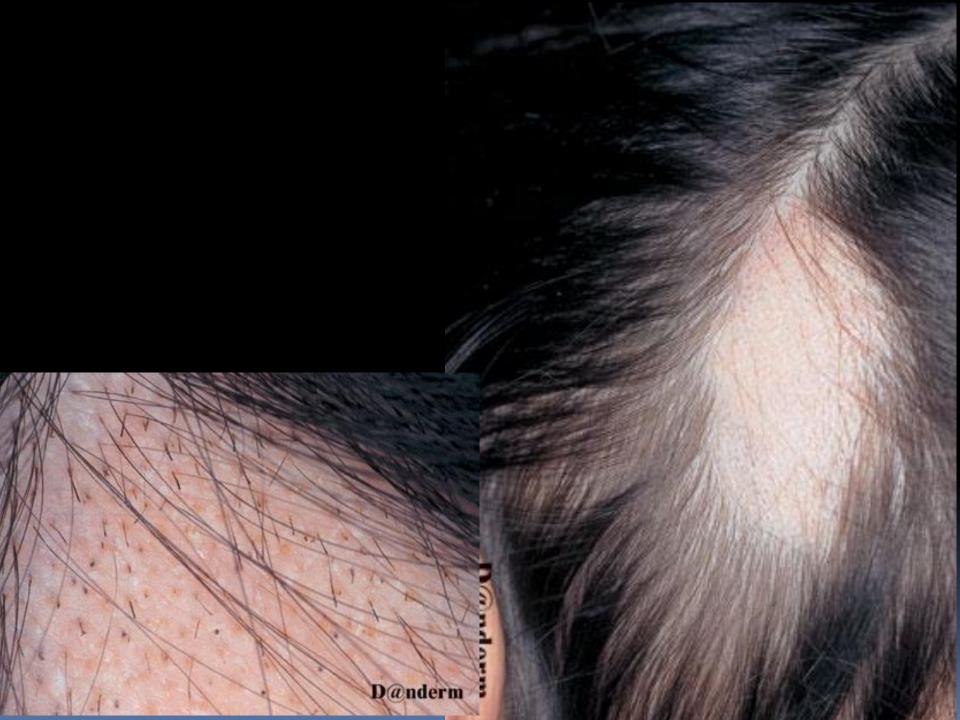
Sudden hair loss (localized or generalized)
Alopecia Areata affects up to 2% 75%: Self recovery, 2-6 m

Causes:

30%: +ve Family history autoimmune

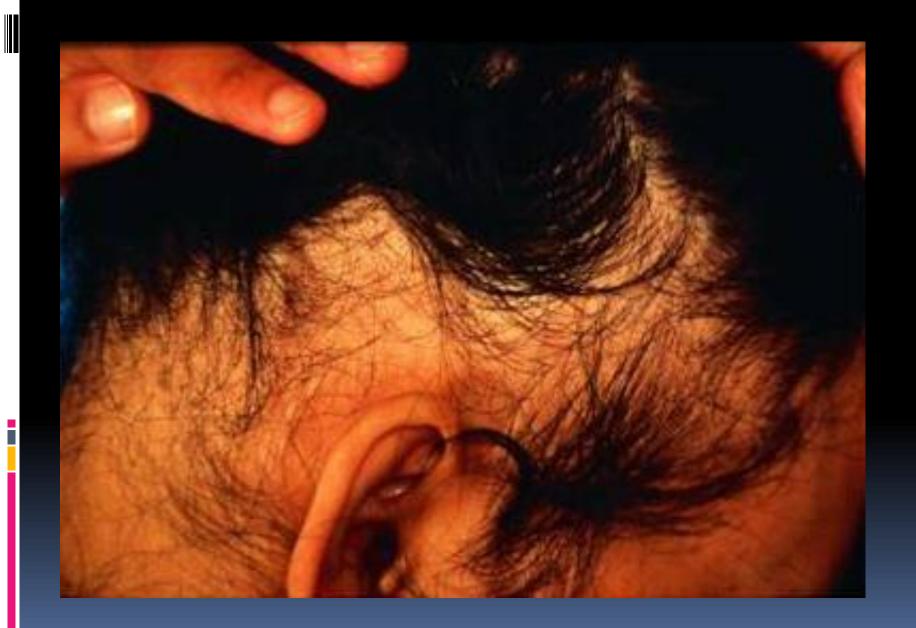
Clinical findings

- Well demarcated
- Exclamation point
- Normal scalp
- Nail: pitting, ridges



Types of alopecia areata

- Localized partial
- Localized extensive
- Alopecia ophiasis
- Alopecia totalis
- Alopecia universalis



Bad prognostic factors

- Young age
- Atopy
- Alopecia totalis, universalis, ophiasis
- Nail changes

Diagnosis

- Clinically
- H/E: sworm bees

Treatment

- 1. Observation
- 2. Intralesional Corticosteroids
- 3. Skin Sensitizers

Anthraline

Diphencyclopropenone (DPCP) others

Others

- Topical steroids
- Systemic Steroids
- Cytotoxic Rx
- Phototherapy
- Minoxidil
- Hair Transplant (NO)

Androgenetic Alopecia

(Male and Female Pattern Hair Loss)

- Androgen dependent loss of scalp hair
- Androgenetic Alopecia affects up to 50% of males and 40% of females
- Autosomal dominant with variable penetrance
- 85%: +ve family history

5 ALPHA Reductase Testosterone DihydorTestosterone Miniaturization of (Active) **Terminal Hairs**

Male Pattern Hair Loss

درجات تساقط الشعر Stages of Hair Loss























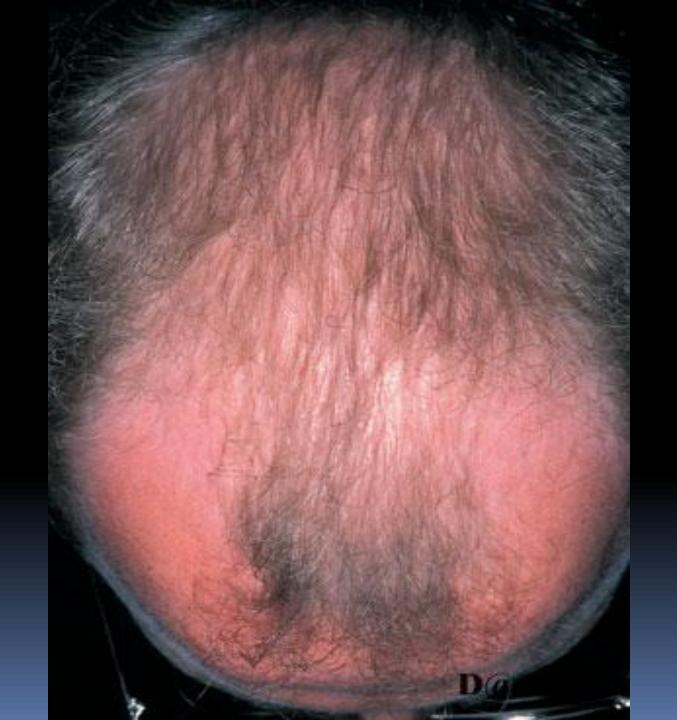




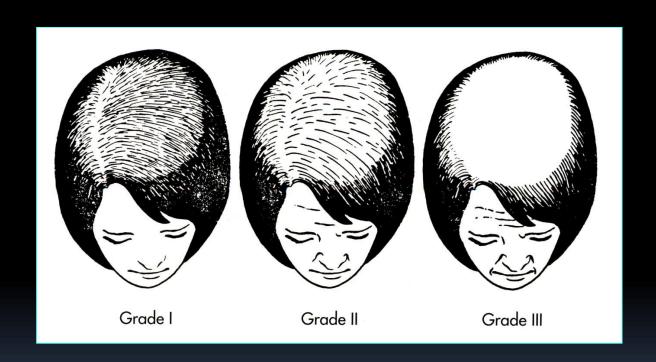


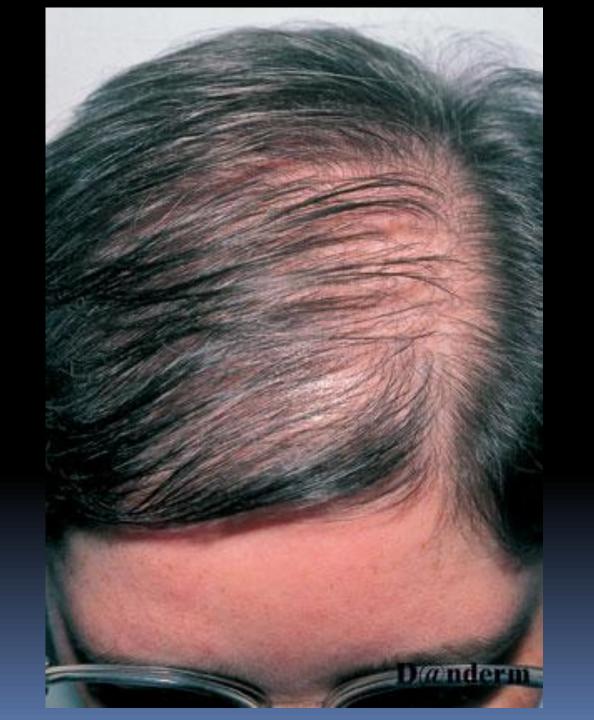






Female Pattern Hair Loss



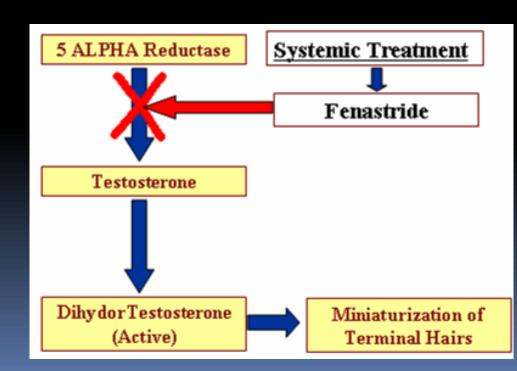


Treatment

- Topical: Neoxidil 2%- 5% solution
- Systemic:

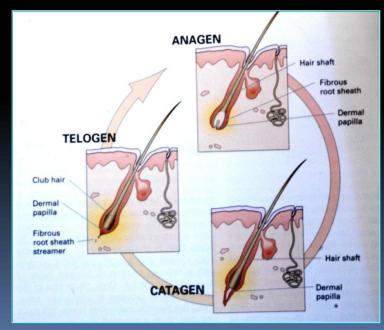
Fenastride

Spironolactone



Telogen effluvium

Chronic alopecia
Reversible (but may be become chronic)
3-4 months



Causes

Physiologic

Physiologic effluvium of the newborn Postpartum effluvium

Injury or stress

High fever

Severe infection

Severe chronic illness

Major surgery

Hypo- or hyperthyroidism

Crash diets, precipitous decrease of calories or protein (Fig. 11.38)

Iron deficiency

Essential fatty acid deficiency

Biotin deficiency

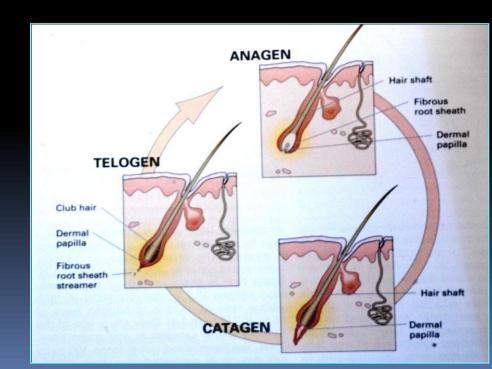
Drugs (Table 11.8)

Treatment

- Remove or treat the cause
- Minoxidil 2% Solution

Anagen effluvium

- Always related to cytotoxic chemotherapy
- Acute and severe alopecia
- Mostly reversible but not always



Scarring Alopecia

- SLE—DLE
- LP
- Sarcoidosis
- Leprosy
- Kerion Favus
- Trauma



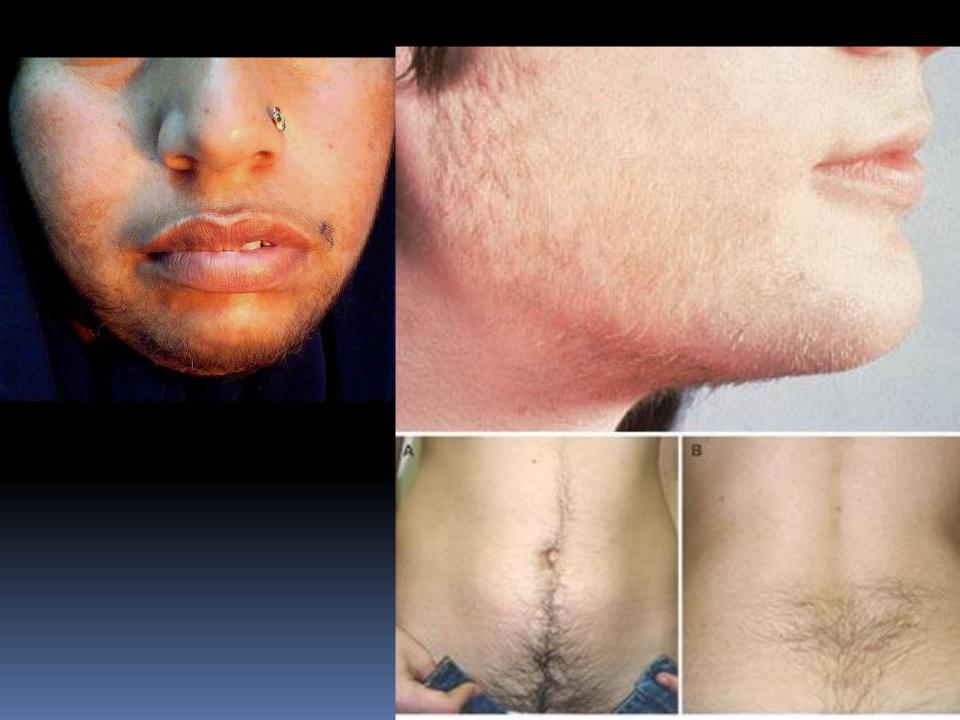




EXCESSIVE HAIR GROWTH

Hirsutism

- Excess growth of androgen-dependent hair in a male pattern
- Female
- Causes: Adrenal, pituitary, Ovarian (PCO),
 Turner syn., iatrogenic (drug), Idiopathic (the commonest)



Hypertrichosis

- Excess growth of hair in a non-androgenic pattern
- Both sex
- Causes:

Congenital

Acquired: drug, porphyria, endocrine (thyroid, anorexia nervosa)



