Pigment and Hair disorders

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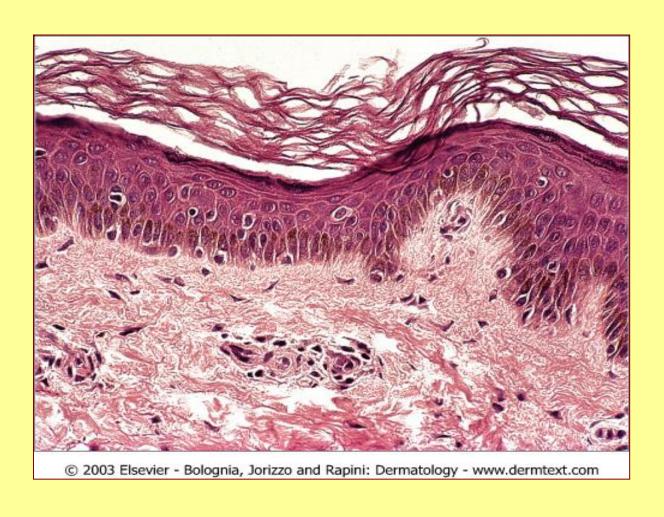
Pigment disorders

• Classification:

Hypo, hyper or depigmentation

- Vitiligo
- Albinism
- Melasma

✓ Introduction to skin pigment



Vitiligo





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- **✓** Definition
- **✓** Types:

focalis

segmentalis

vulgaris(generalized)

universalis

- ✓ Pathogenesis: autoimmune
- **✓** Associated diseases
- **✓** Prognosis
- **✓** Psychosocial effects

Treatment

- > Skin camouflage
- **➤** Topicals: Corticosteroids

Immunomodulators

Outdoor topical psoralen

> Phototherapy:

- 1. UVA + Psoralen = PUVA
- 2. NBUVB
- 3.Excimer laser



- > Systemic Treatment:
- Surgical Rx:

Conditions:

types: .tissue

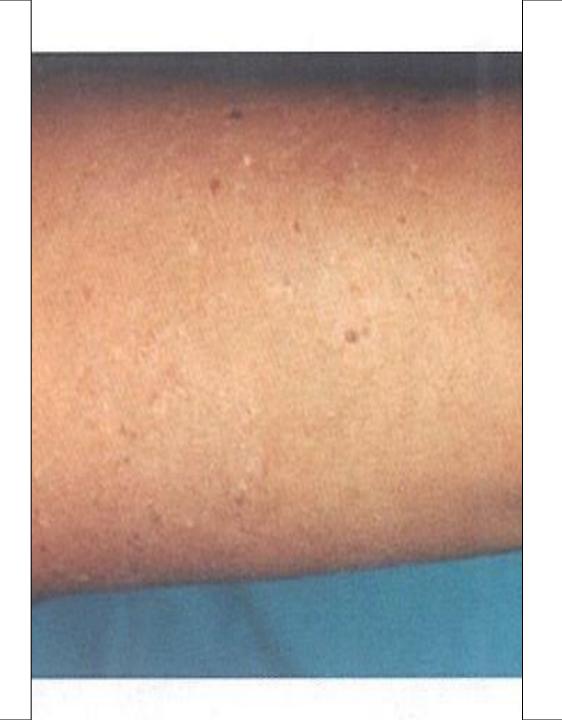
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Depigmentation

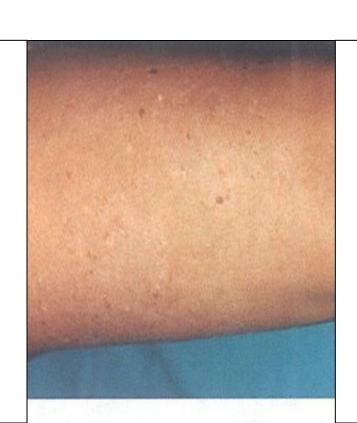












Albinism

- autosomal recessive disorder
- -lack of pigment production by melanocytes in the epidermis, hair bulb, and eye.

- -skin is white or pink
- the hair is pale blonde
- iris is translucent.



Albinism

- -Sunlight is very poorly tolerated, and sunburn and photophobia are common symptoms.
- -Nystagmus
- -Albinism is a serious condition.WHY?
- -skin ages prematurely
- high incidence of malignant skin tumors.



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Albinism pathology

Melanocytes are present in the basal layer of the epidermis

- -tyrosinase negative albinism
- -tyrosinase positive albinism

management

Sun Avoidance

Total Sunblock

Regular clinical review for early diagnosis of skin tumours.

Children with ocular albanism may have learning difficulties due to poor vision and require specialist opthalmological supervision.

Chloasma (Melasma)

- hormonally stimulated increase in melanogenesis
- -mainly affects the face
- -seen in pregnant women and those on the contraceptive pill.
- -Sunlight and Oral contraceptive will aggrevate the situation

Treatment:

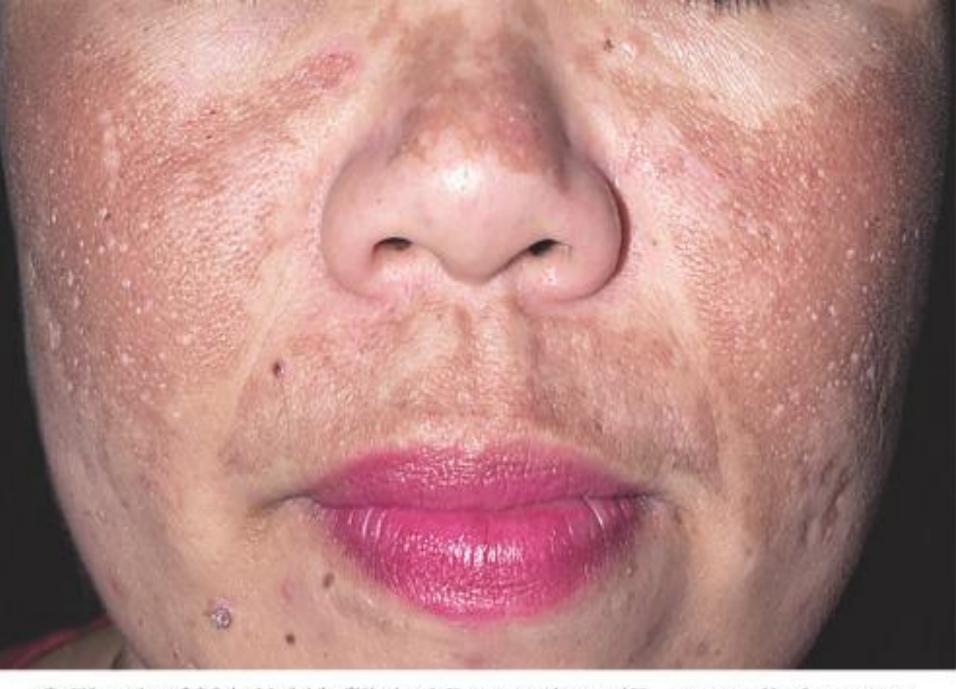
Sunscreen

Bleaching creams

Chemical peeling



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HAIR DISORDERS

HAIR LOSS(alopecia)

 alopecia areata
 androgenetic alopecia
 telogen eff.

 anagen eff.
 trichotillomania

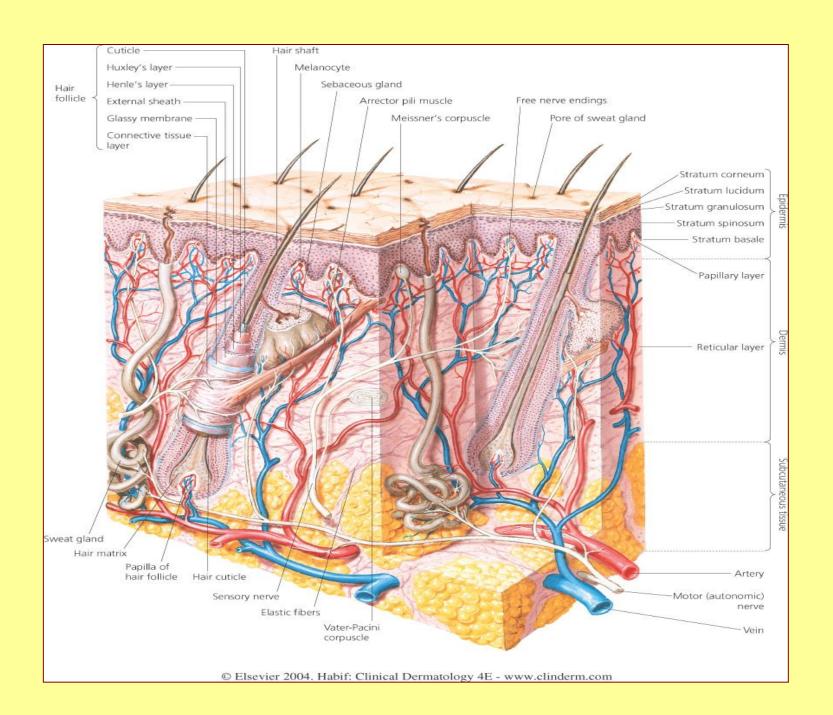
HAIR EXCESS
 hirsutism
 hypertrichosis

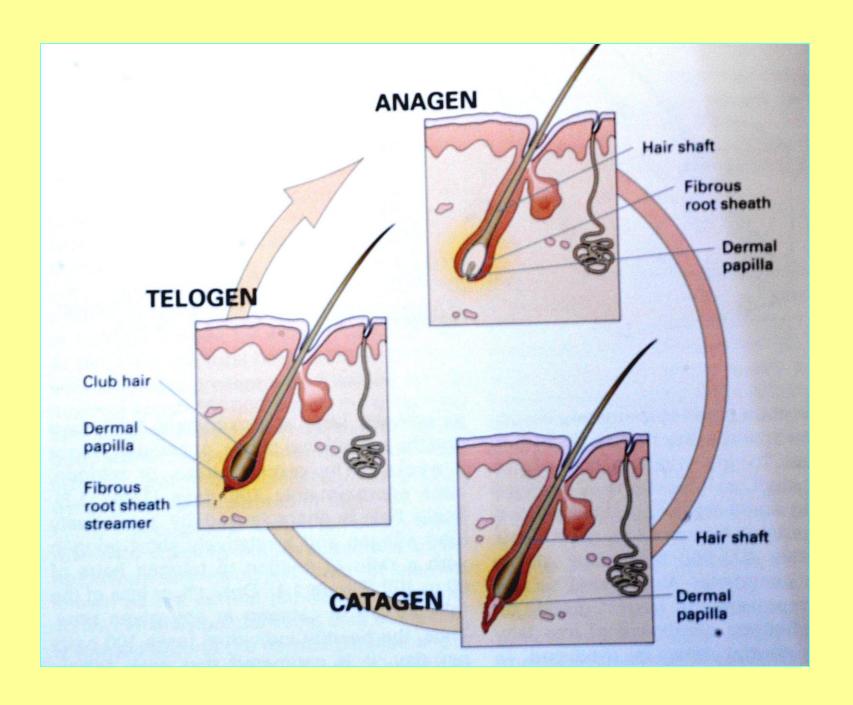
Introduction & definition

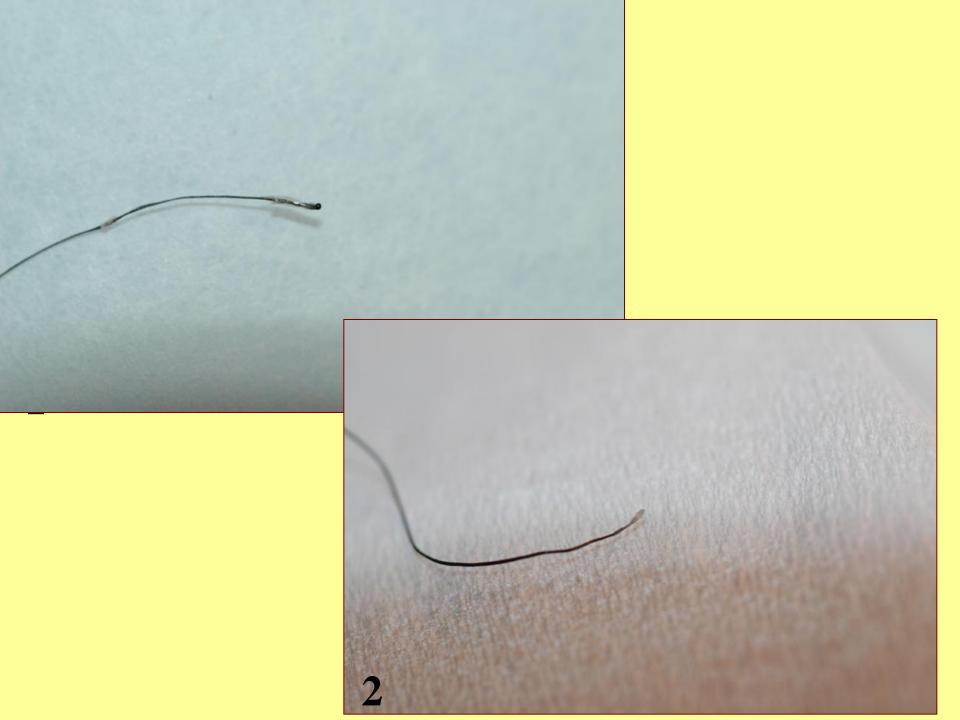
- **✓ Alopecia = HAIR LOSS**
- **✓** Basic hair anatomy and Physiology
- **✓** Hair growth is very dynamic
- **✓ Vellus and Terminal hair**

- **✓** How many hairs in the body?
 - 5 millions hairs;
- **100,000** in the scalp
- **✓** Growth rate?
- 0.3mm/day for scalp hair









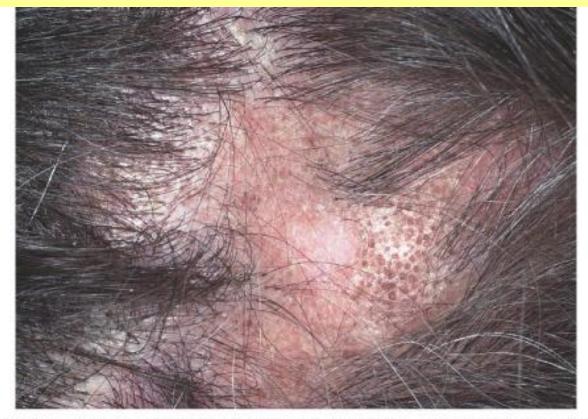


Alopecia





scarring

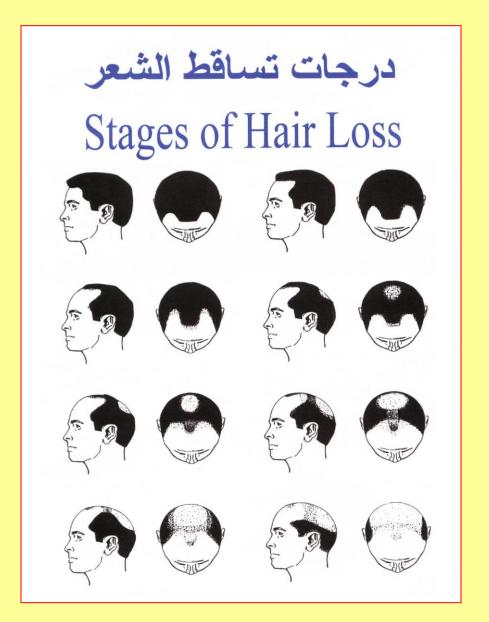


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Androgenetic Alopecia

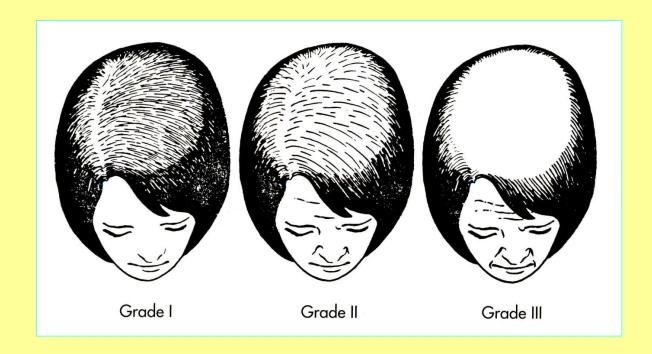
(Male and Female Pattern Hair Loss)

Male Pattern Hair Loss





Female Pattern Hair Loss



Female Pattern Alopecia





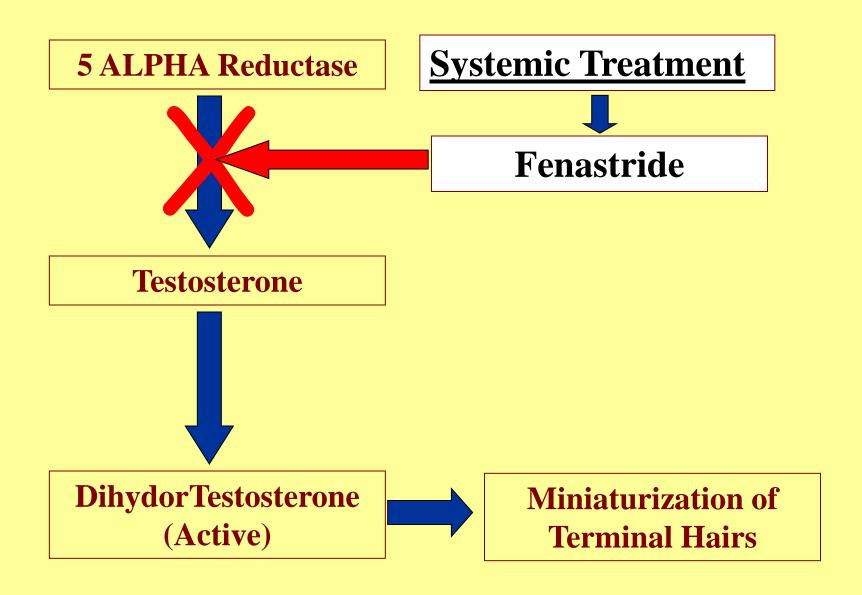






Androgenetic Alopecia

- ✓ Androgenetic Alopecia affects up to 50% of males and 40% of females
- ✓ Autosomal dominant with variable penetrance
- **√**85%: +ve family history
- **✓** Role of androgens in the pathogenesis:



Topical Treatment

Minoxidil 2% and 5% Solution

Systemic

Finastride 1 mg daily

Surgical

Hair transplantation



Fenastride





Minoxidil 5%



Minoxidil 2% and 5%

















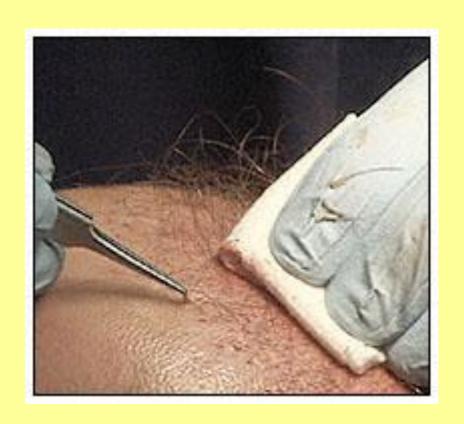




















Alopecia Areata





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Alopecia Areata

- **✓** 30%: +ve Family history
- **✓** High rate of self recovery
- **✓** Role of immune system in the pathogenesis

-Clinical presentation; Uninflammed skin

-Sites:

-Nails:

-Prognosis: limited vs extensive







Treatment

No treatment

Topical steriod

5% Topical minoxidil

Intralesional Corticosteroids

Skin Sensitizers(Anthralin)

Oral steriods

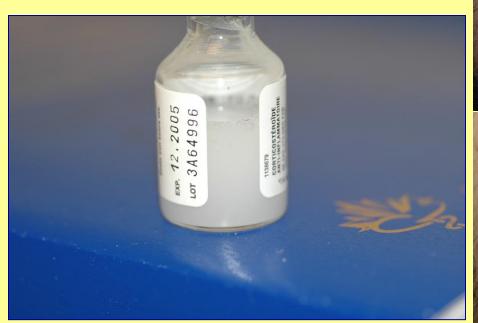
Iv steriod pulse therapy

Hair transplant ?????



















Anagen effluvium

- **✓** Cause: cytotoxic chemotherapy
- **✓** Sudden and severe alopecia
- **✓** Mostly reversible but not always

Telogen effluvium

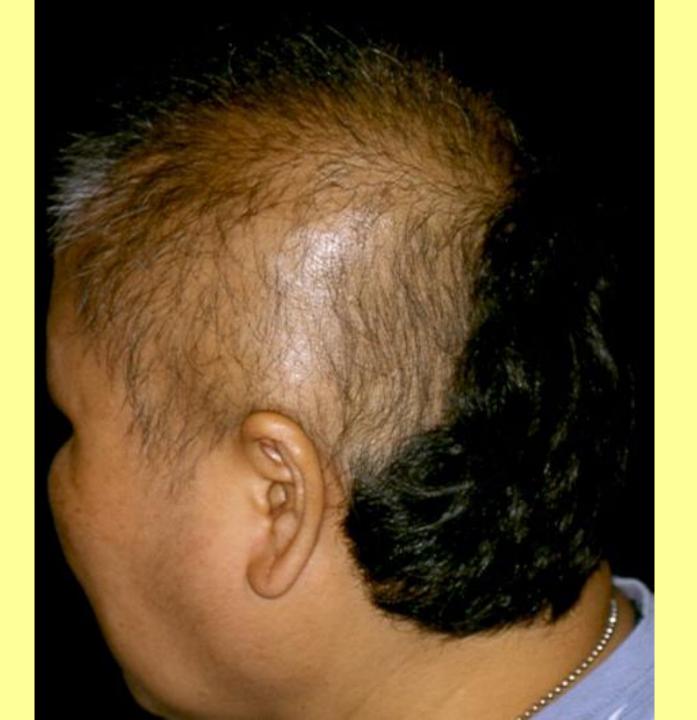
- **✓** Common and Non-specific
- **✓** Acute or chronic
- ✓ causes:
- > Anemia
- > Postpartum
- **postfebrile**
- **drugs**
- Weight loss (crash dieting)
- > Acute blood loss
- > postsurgical
- > Low iron
- > Others
- **✓** Reversible (but may be become chronic)

Trichotillomania

- Obsessive compulsive disoder
- Pulling of hair
- Asymmetrical areas
- Treatment:

Behavioural therapy

SSRI

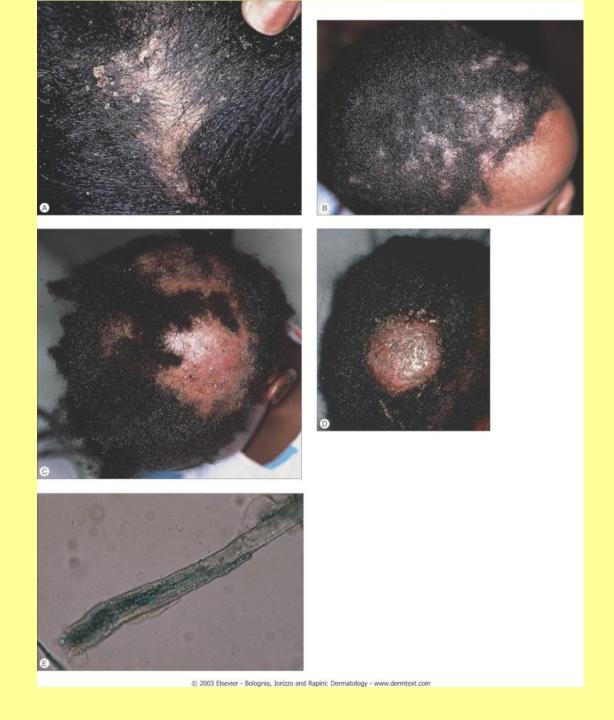


Fungal Scalp Infections(tinea capitis)

Child had contact with animals.

- -Scaly or inflammed alopecia or Kerion
- siblings may also be affected.
- -Wood's Light
- -Scalp scrapings and hairs should be examined microscopically, and cultured to demonstrate the fungus.





Fungal scalp infections

Treatment:

- -Oral antifungal (griseofulvin or terbinafine or itraconazole)
- -Hair regrow normally unless a kerion has led to scarring.



Chronic Discoud lupus

- -patchy and scaly alopecia,
- follicles plugged by scales and erythematous advancing margin.
- scaring process => permanent alopecia

-Treatment of early lesions



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Hirsutism

- -Hirsutism is excess growth of androgendependent hair in a male pattern
- Hypertrichosis is excess growth of hair in non androgenic pattern.

Seen in both sexes but hirsutism is restricted to females.



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Hirsutism

In female pt hair grows in the beard area, around the nipples, and in a male pattern on the abdomen.

-Hirsutism can cause great distress to a healthy woman and lead to psychological disturbances with depression.

Causes

Adrenal: Cushing's syndrome, virilizing tumours, congenital adrenal hyperplasia

Pituitary: acromegaly

Ovarian: Plycystic ovaries, virilizing tumours, gonadal dysgenesis

Iatrogenic: due to androgenic drugs

Idiopathic: Target or end-organ hypersensitivity(the commonest cause) t

Investigation

To exclude the underlying, treatable causes

-Although many tests of adrenal, ovarian, and pituitary function are available, the young woman who is menstruating regularly, and has had one or more successful pregnancies, requires little endocrine assessment.

Full endocrine assessment is, however essential in patients with amenorrhoas, scanty, irregular periods, or with signs of excess androgen stimulation.

Signs of virilization?

treatment

Laser

Diane



Hypertrichosis

- -Either congenital or acquired
- -Congenital associated with melanocytic naevi, while lumbosacral hypertrichosis (faun tail) should alert the pediatrician or obstetrician to the possibility of spina bifida occulta.
- -Acquired drug induced

Endocrine disorder like thyroid dysfunction

Anorexia nervosa

Drugs

Hypertrichosis

Drug causing hypertrichosis include: diazoxide diphenylhydantoin, penicillamine, and the psoralens.

If the offending drug is withdrawn, the excessive hair growth will cease.

You see! I have a nice hair!!

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