SUPERFASCIAL LUMPS

SKIN & SUBCUTANEOUS

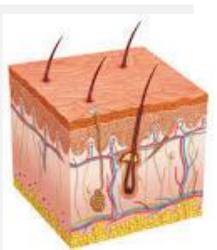
TUMOURS & CYSTS

Dr. Mohammad Al-Akeely Associate Professor Department of Surgery

Skin anatomy

Epidermis: openings of glands

Papillary dermis: basal cell layer



Dermis : contains sweat & sebaceous glands

Benign skin tumours

papilloma (wart):

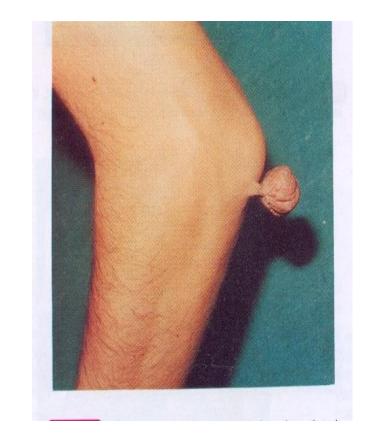
. Finger like projection of all skin layers

. usually infective (papilloma virus)

. pedunculated or sessile

<u>**Rx</u></u>: .Cauterization (small or multiple) .Excision (large)</u>** Pedunculated papilloma





• Sessile papilloma







Fibrous tissue proliferation following :

. trauma

.surgery

.infection

.It is usually flat.

Hyper trophic scar

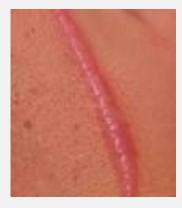
Excessive fibrous tissue in a scar

- . confined to the scar
 - . no neovascularization

.wound infection is an important factor

.clinically it is a raised , non tender swelling with no itching

- .it may regress gradually in six months
- . does not usually recur after excision



Hyper trophic scars:











Excessive fibrous and collagen tissue with *neovascular proliferation* in a scar

.usually extends beyond the original scar

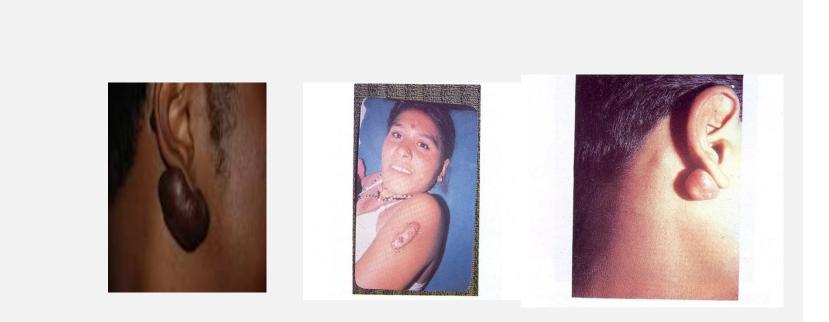
Keloid continue

Initially raised , pink , tender , itchy and may ulcerate.
More common in dark skinned people
Progressive v.s. non progressive
Aquired v/s spontaneous

<u>Rx</u>

.Injection (hyaluronidase, steroides etc.) .Excision & grafting







Pyogenic granuloma

. Excessive granulation tissue growth in ulcers.

. Firm, bright, red selling that bleeds on touch.

. recurrent bleeding when exposed to Trauma.

<u>Rx</u> : cauterization v.s excision









<u>Haemangioma</u>

It is a developmental malformation of blood vessels rather than a tumour.

<u>Types</u>: capillary , cavernous ,arterial.

It commonly occurs in skin & sub cutaneous tissue

but other organs (e.g lips, tongue, liver, brain) may be affected.



Malignant skin tumours

Basal cell carcinoma (BCC) :

- Ulcerated tumour of basal cell layer of skin.
- . Middle aged white tropical males (Australia). . common in face.
- . low grade and slowly growing tumour (years)

Clinically:

- . Rolled-in edges (inverted) with attempts of healing .
 - . floor shows an un healthy granulation with a scab.
 - .The base is indurated and may be fixed to bone.
 - . spreads locally (usually no L.N metastases).

Rx : radio therapy & surgery





Squamous cell carcinoma

(Epithelioma)

Arise from squamous cell layer of skin or mucus membrane.
It may arise from metaplasia of columnar epitheleum due to chronic irritation (gall bladder, bronchus, stomach .etc.)
It can occure any where in the body, M>F .
More malignant and rapidly growing than BCC.
Edges are rolled out (everted)

<u>Spreads</u>:

locally , L.N , and blood

<u>Rx:</u>

Radiotherapy & Surgery











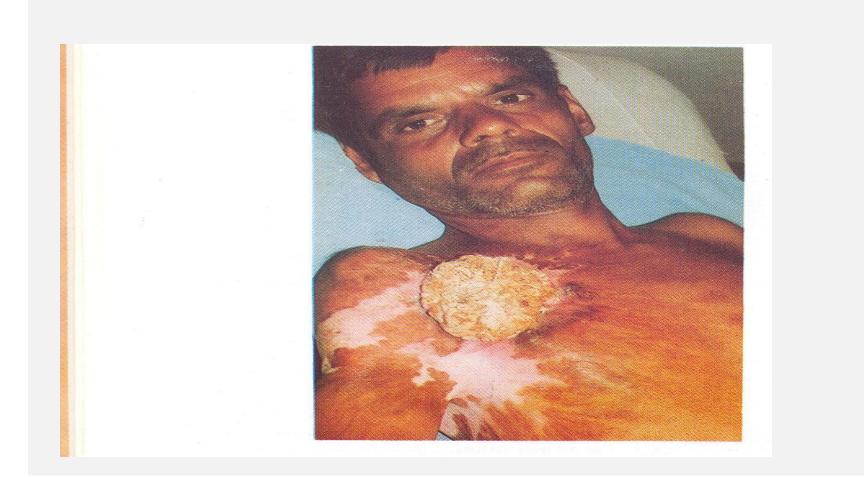
Marjolin ulcer

It is a low grade squamous cell carcinoma arising in chronically inflammed ulcers or scars.

<u>Rx</u>:

Radiotherapy & Surgery





Naevus (mole)

.A localised cutaneous malformations..Includes moles & birth marks..They may present at birth ,or even later.



Types:

Junctional, intradermal, compound, bluenaevus, juvenile and freckle

Naevus cont;

Evidences of malignant change :

(very important)

Malignant Melanoma

It is rare but most rapidly infiltrating skin tumour

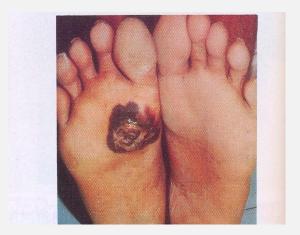
De-novo (10%), Pre-existing naevus (90%).

<u>Metastasis :</u>

Local & satellite nodules.

Lymphatic.

Blood (liver, lung, bone etc;.











Satellite nodule



Skin Cysts

Implantation Dermoid:

.lt is a post traumatic dermoid.

.Commonly in fingers and hands of farmers & taylors.

.Tense , may be hard tender swelling.

.Attached to skin which may be scarred

.Contains desquamated epithelial cells.

.pain and ulceration may occur following repeated trauma

<u>RX:</u>

Excision is curative.



Implantation dermoid in ear









Sebaceous Cyst

It is a retention cyst due to blockage of its duct.

Lined by squamous epithelium and contains sebum and desquamated epithelium.

Commonly in scalp , Face , scrotum and vulva

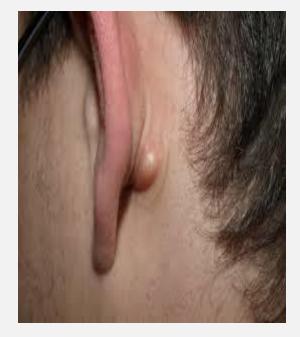
(<u>never in palm & sole</u>).

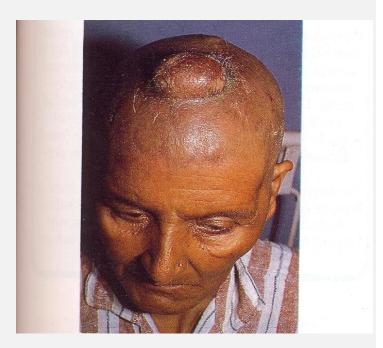
<u>...</u> Clinically:



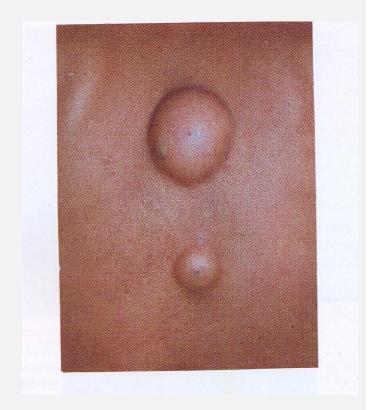
Spherical, cystic or tense swelling , <u>attached to skin with</u> <u>punctum</u> that may discharge sebum upon squeezing.

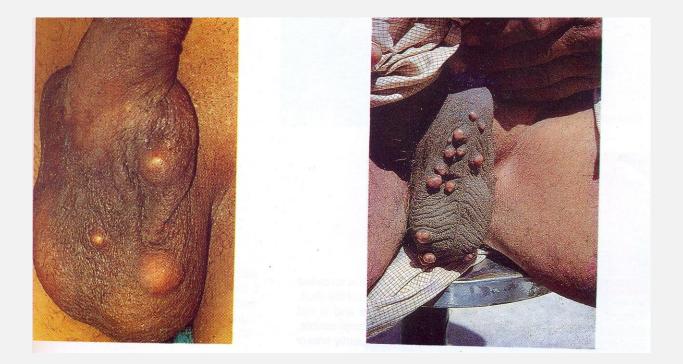
<u>NB</u> :Indentation and fluctuation tests may be positive .But transillumination test is negative</u>











Seb. Cyst cont;

Complications:

cosmotic

Infection

ulceration

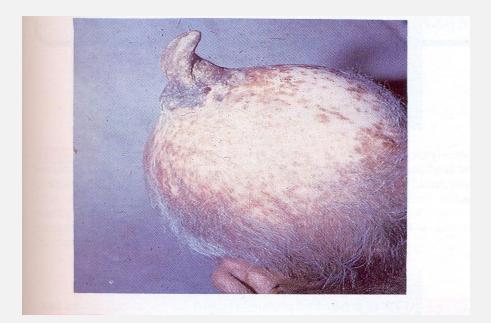


Cock peculiar tumour (granuloma due to ulceration) sebaceous Horn (inspissated secreted sebum)

<u>Rx</u> :

.Excision for un infected cyst .

.Drainage followed by excision for infected cyst.



sebasceous horn



Infected sebasceous cyst.





Sebasceous cyst excision

Subcutaneous Lumps

Cystic swellings:

Congenital

dermoid cyst cystic hygroma haemangioma

Aquired

abcess parasetic haematoma

Solid swellings:

commonly benign:

shwanoma, neurofibroma, lipoma

(rarely malignant)



Traumatic haematoma

<u>Dermoid cyst</u>

Clinically four varaieties:

Sequestration dermoid (congenital).
 Implantation dermoid (aquired).
 Tubulo-dermoid (congenital).
 Terato-dermoid (ongenital).

Sequestration dermoid

.It is a true congenital cyst .

Ectodermal tissue burried in mesoderm forming a cyst lined by squamous epith.and contains paste-like desquamated epith.

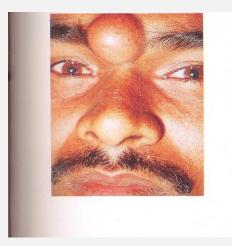
.<u>Common at lines of Embryonic fusion sites</u>:

- . Midline: neck & root of nose.
- . Scalp.
- . Inner or outer angles of eyes.

Sequestration dermoid cont;

Clinical features:

- Painless, spherical, cystic mass.
- Appears in childhood or adults.
- Smooth surface.
- Not attached to skin cf. seb. cyst
- No punctum cf. seb. cyst.
- Not compressible cf. meningocele.
- Bone indentation (scalp)
- Trans-illumination test ve .





Occipital dermoid



nasal root dermoid



nasal root dermoid



fore head dermoid



External angular dermoid



External angular dermoid



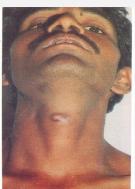
Submental dermoid



complications: infection

Tubulo-dermoid

Cystic swelling arising from the non-obliterated part of congenital duct or tube which fills up by secretions of lining epith.



Examples

- Thyrpglossal cyst (remnant of thyrogloss duct).
- Post-anal dermoid (remnant of neuro-enteric canal).
- Epindymal cys tin brain (rem. of neuro-ectoderm canal).

Teratomatous dermoid

Cystic swelling arising from the toti-potent cells with ectodermal preponderance.

- Ovary ;Ovarian cyst.
- Testes :Teratoma
- Mediastinum.
- ReteroperItoneum.
- Pre-sacral area

They usually contain derivatives of mesoderm (cartilage, bone, hair, cheesy material).

Cystic hygroma

A congenital malformation affecting lymphatic channels.

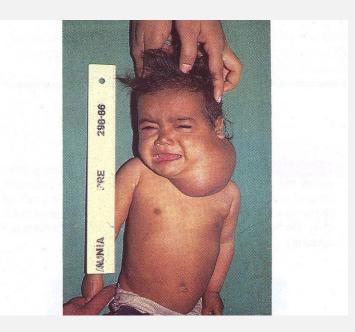
.appears early, multilocular, filled with clear fluid (trans-

illumination + ve).

.lined by columnar epith.

.Common in : neck, axilla, groin, medistinum and tongue.







Branchial cyst

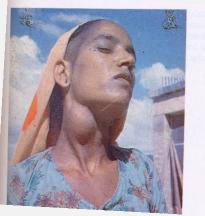
A congenital cyst in persistent cervical sinus

Below angle of mandible, behind mid s.mastoid.m

Tense , distinct edges, +ve fluctuation and –ve transillumination.

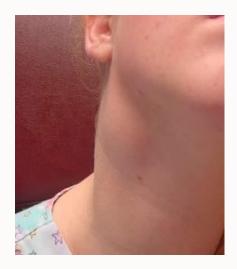
Contains cholesterol crystals (diagnostic).

Differential diagnosis:



cold abscess, dermoid cyst , plunging rannula, cystic hygroma, carotid body tumour, lymph node, sub.mand.salivary gland.





Ganglion

It a cystic swelling of synovial membrane of tendon or capsule in small joints.

- . myxomatous degeneration.
- . may be communacating.

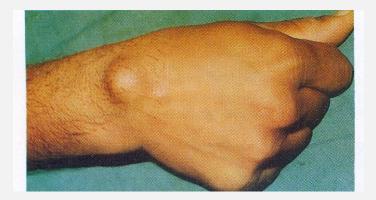
Common sites

- . dorsum of wrist
- . dorsum of foot and ankle.









Ganglion cont;

Clinically:

- Slowly growing lump.
- Common in females.
- Spherical, firm, cystic swelling.
- Mobile across tendon axis but limited along longitudinal axis.

<u>Rx:</u>

Asymptomatic: reassurance.

Symptomatic: aspiration or excision.



transillumination test



aspiration of ganglion



excision of ganglion

Lipoma

- It is a benign tumour of adipose tissue.
- The most common benign tumour in subcutaneous tissue.
- Common in trunk, neck and limbs.
- Encapsulated v.s. diffuse.
- May be mixed e.g: fibrolipoma , neurolipoma , haemangio-lipoma.

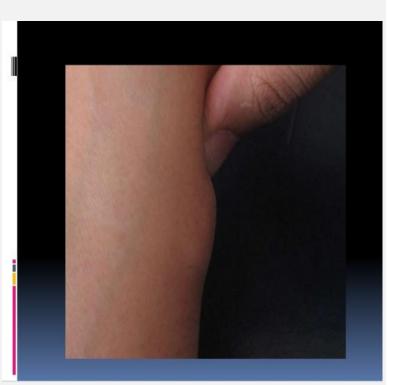


• Dercums disease (multiple lipomatosis).

lipoma cont,

clinical features:

- Painless ,non tender, soft and lobulated lump.
- Well defined edges and skin is free.
- Slipping sign positive.
- Freely mobile.
- Fluctuation test is negative.
- Trans-illumination test is negative.



Lipoma cont,

Complication

necrosis, calcification, haemorrhage, infection, and rarely transform in to liposarcoma.

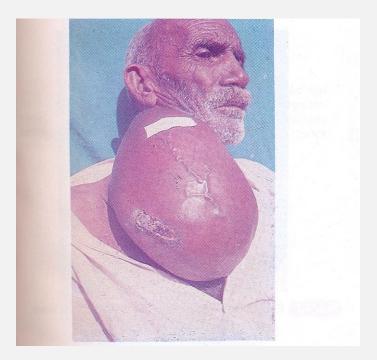
Diagnosis: FNA

Treatment:

- Small asymptomatic lipoma: re-assurance
- Symptomatic lipoma :

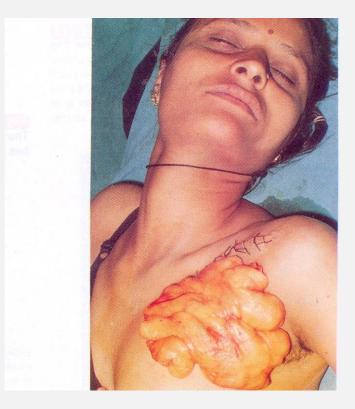
-surgical excision for encapsulated

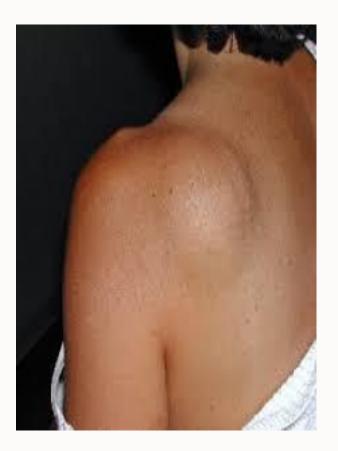
- liposuction for diffuse type.















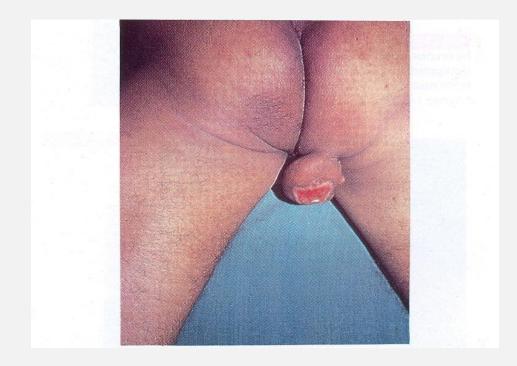






© 2003 Elsevier - Bolognia, Jorizzo and Rapini: Dermatology - www.dermtext.com

multiple lipomatoses (Dercum"s disease)



ulcerated lipoma

Gluteal liposarcpma



© 2003 Elsevier - Bolognia, Jorizzo and Rapini: Dermatology - www.dermtext.com

LIPOSARCOMA

- Common in retroperitoneum, thigh & back
- Rapid growth
- Warm & vascular
- Dilated veins
- Restriction of mobility
- Skin fixation & fungation
- Hematogenous spread to lungs



NEUROFIBROMA

Tumour of nerve connective tissue (not neurons)

Types:

- Localised or solitary NF.
- Generalized (Von-Recklinghausen"s disease)
- Plexiform NF
- Elephantiasis NF
- Cutaneous NF

Neurofibroma cont:

Clinical features of N.F:

- Encapsulated, rounded or elliptical swelling.
- Smooth, firm with well defined edges.
- Tenderness and parasthesia may be present.
- Mobility may be deminished along nerve-axis.

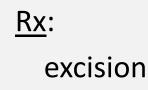




Figura 2. Mancha café-con-leche y nódulos cutáneos. Figure 2. Café au lait spot and skin nodules.

Multiple neurofibromatosis (V-R disease)

- Inherited as an autosomal dominant disease.
- More common in males.
- Multiple tumors- with Cafe-au-leit spots.
- Peripheral and cranial nerves may be affected.
- May be associated with other tumors (eg, endocrine).





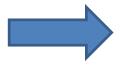




www.shutterstock.com · 237173587



Examples of exam cases :



A 25 years old patient presented to the surgical clinic complaining of a painless swelling at the front of the left thigh for 3 years and no other swellings. Examination revealed a spherical, soft, lobulated, non tender lump which is freely mobile in subcutaneous tissue.

The most likely diagnosis is:

a .lipoma
b. sebasceous cyst
c. fibroma
d.branchial cyst

A 25 years old patient presented to the surgical clinic complaining of a painless swelling at the front of the left thigh for 3 years and no other swellings. Examination revealed a spherical, soft, lobulated, non tender lump which is freely mobile in subcutaneous tissue.

The most likely diagnosis is:

- a. lipoma
- b. sebasceous cyst c. fibroma d. branchial cyst

A 16 years old girl presented to the clinic with a 2cm painless, cystic swelling lateral to the left eyebrow.

it was first noticed 5 years ago and was gradually increasing in size.

The most likely diagnosis is?

- a.Haemangioma.
- b. Abscess.
- c. External angular dermoid.
- d. Ganglion

A 16 years old girl presented to the clinic with a 2cm painless, cystic swelling lateral to the left eyebrow.

it was first noticed 5 years ago and was gradwally increasing in size.

The most likely diagnosis is?

- a.Haemangioma.
- b. Abscess.
- c. External angular dermoid.
- d. Ganglion