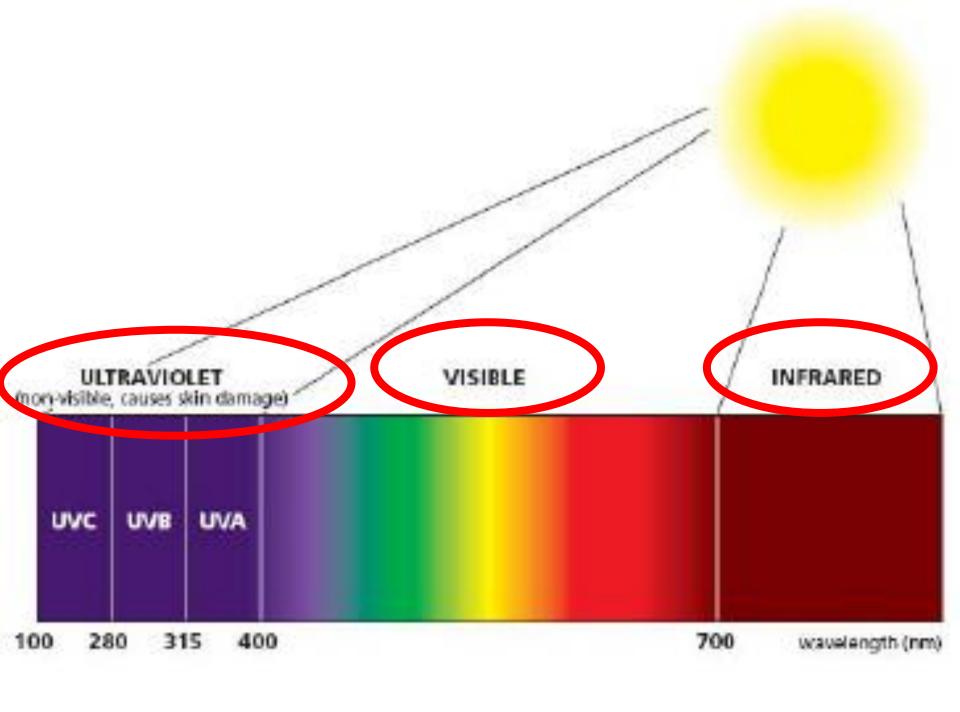
Skin tumours

Neira Puizina-Ivić, Ph.D, Prof.



UV exposure

pros

attractive skin good mood production of D vitamine treatment of psoriasis and other skin diseases

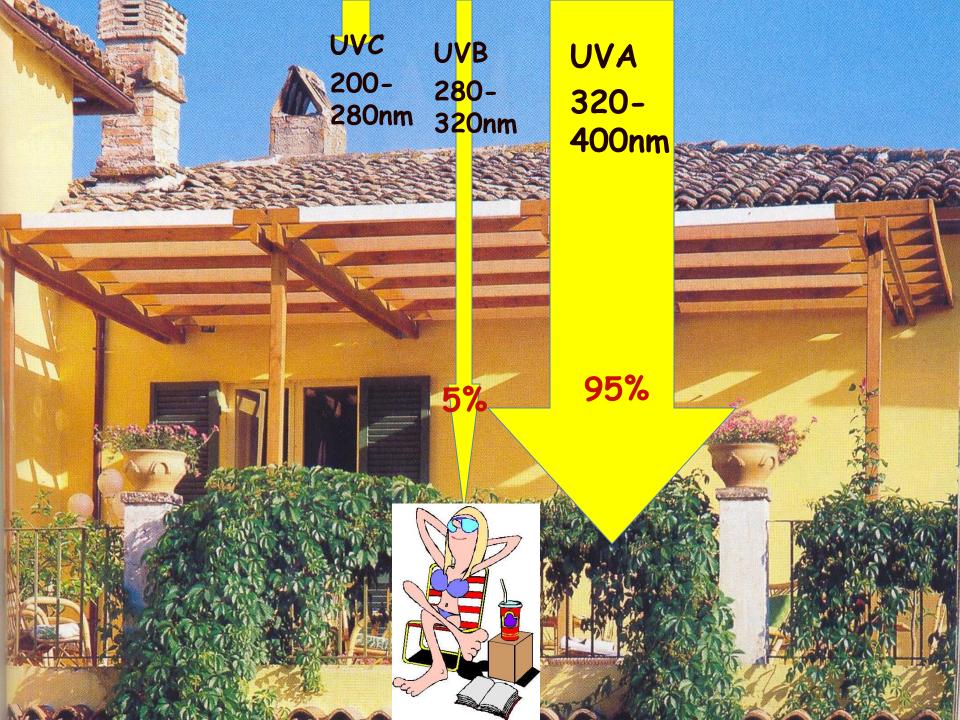
cons

skin burns
photoaging
skin cancer
photosensibilisation
exacerbation of skin diseases
(lupus, porphyria...)

without UV exposure

1000x lower production D vitamin - rickets! osteoporosis depression bad mood slower aging of the skin

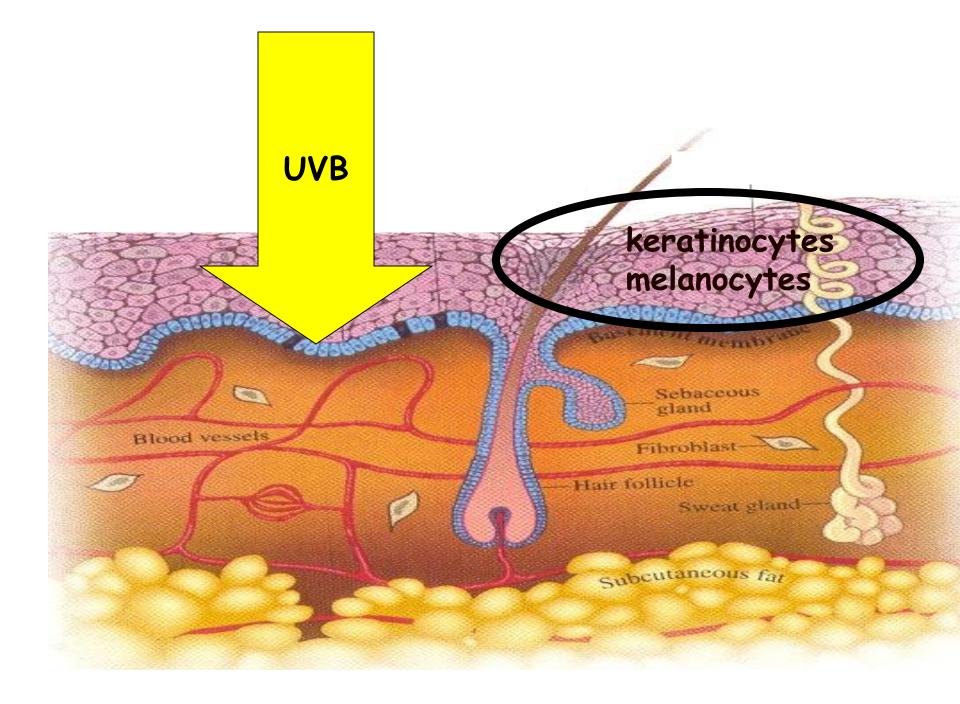
be moderate with selection of SPF

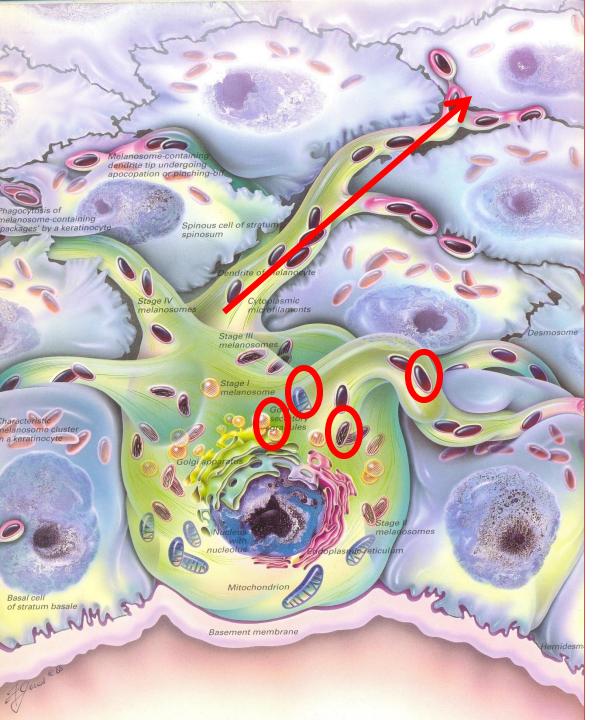


UVA - 95%

UVB - 5%

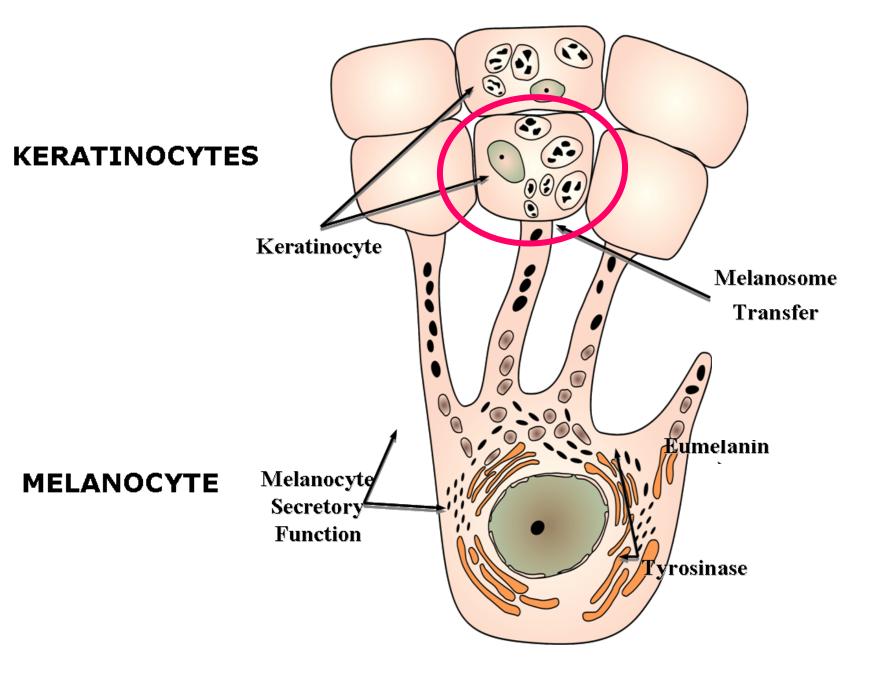
1000x stronger biologic effect than UVA

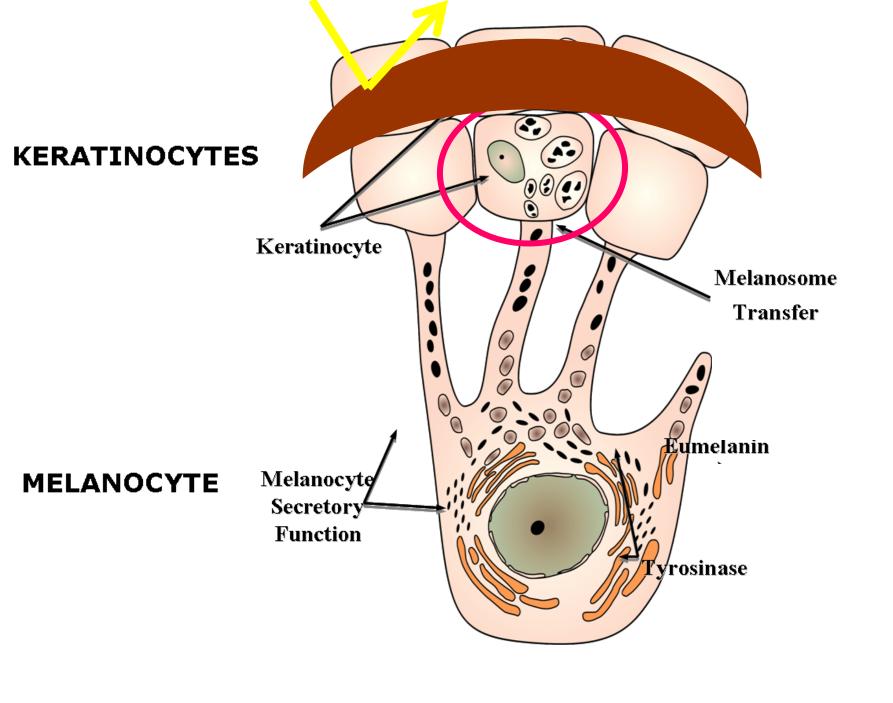


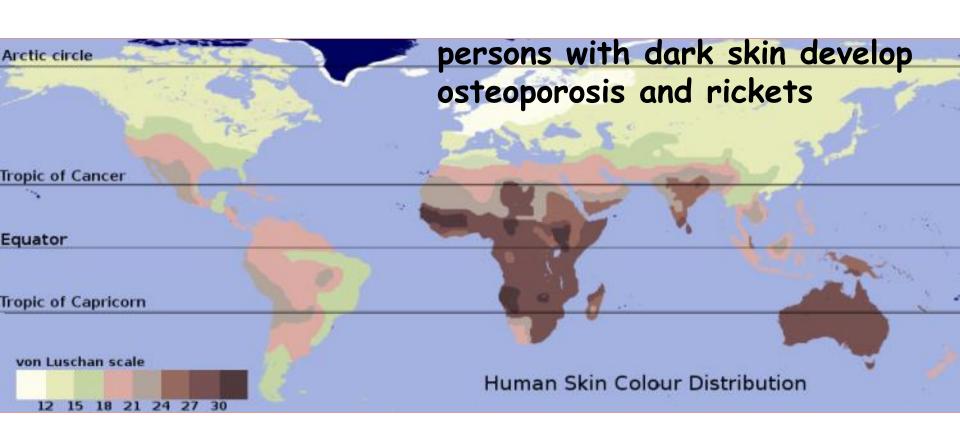


epidermal-melanin unit

face 1/5 keratinocytes trunk 1/36 keratinocytes

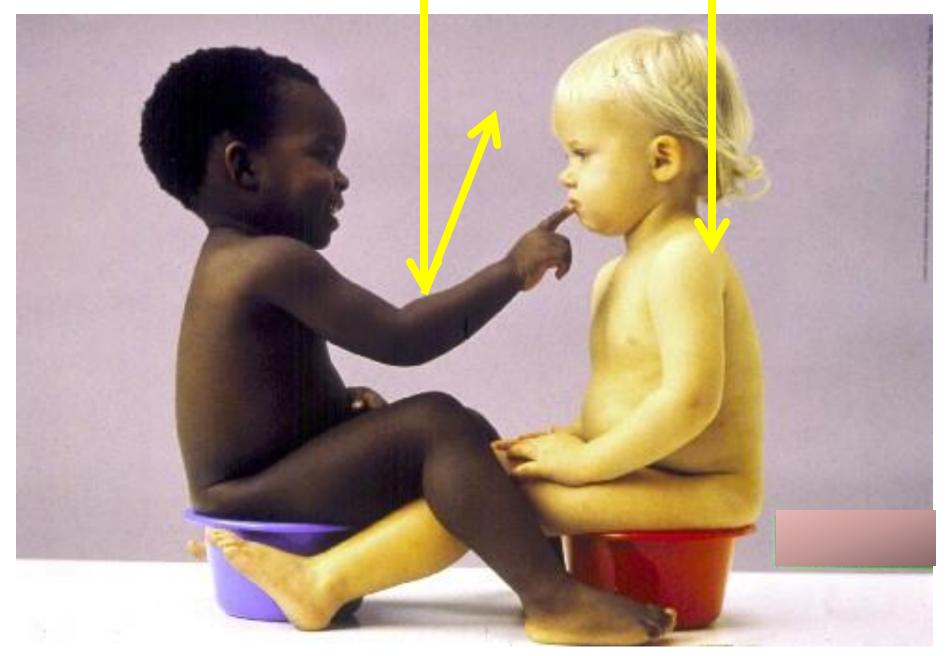




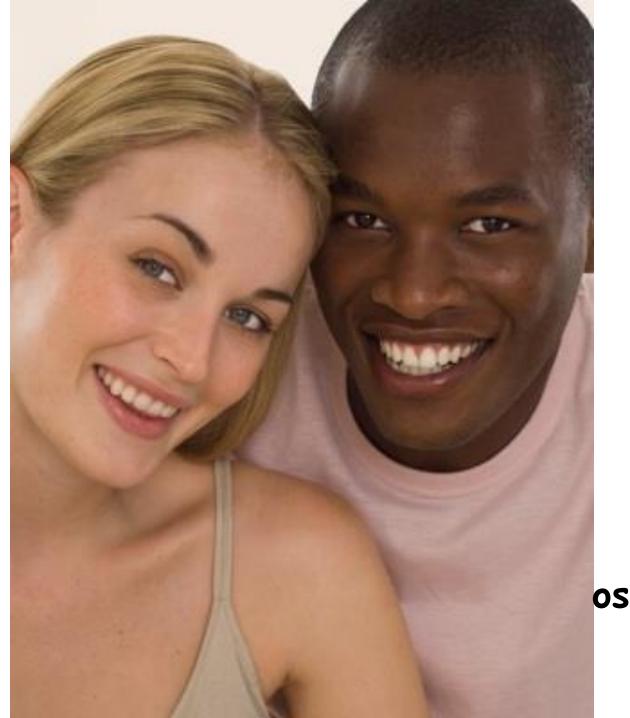


pigmentation augments heat absorption (30% in dark skin)

Berzelius 1840.g dao naziv melanin

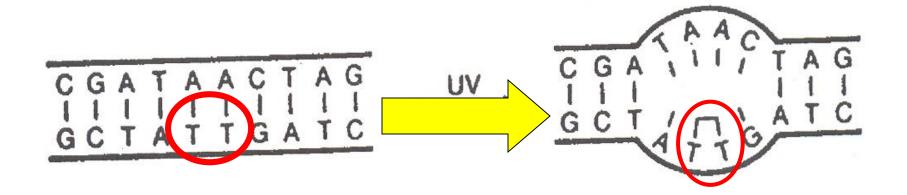


rickets



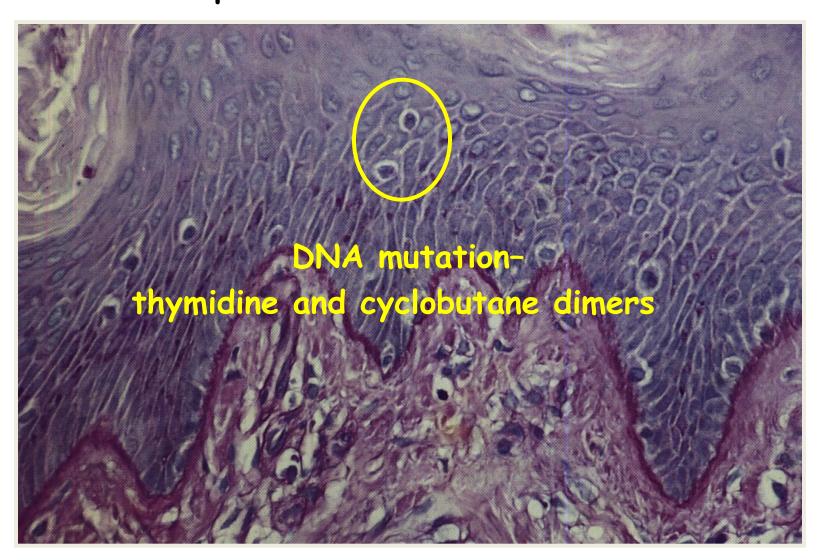
osteoporosis

Thymidine's dimers

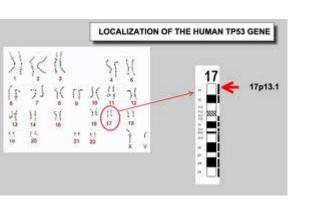


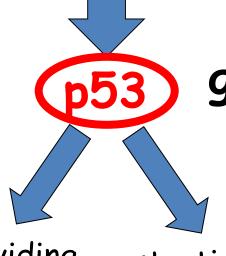
"UV fingerprint"

8-12 hours- <u>sun burn cells</u> decreased production of DNA next 12 hours



damage of DNA (UV, osmotic, viruses, hypoxy_stress, ROS)





guardian of the genome

stops dividing

starting of programmed cell deatl



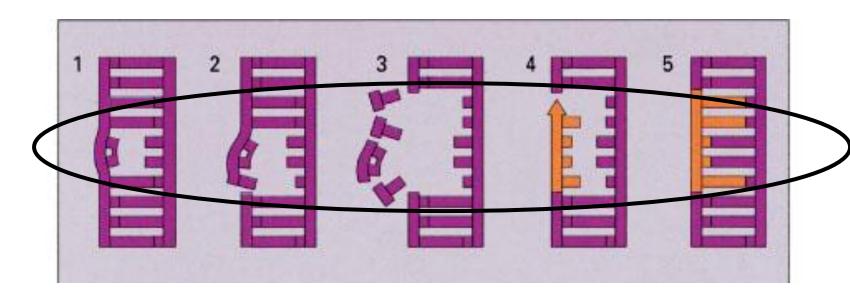
cell death

genetic stability



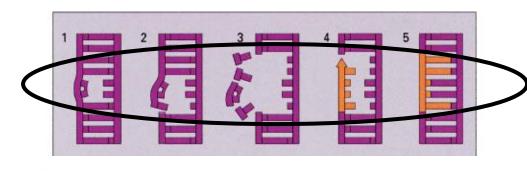
The "Samurai" law of biology:

"It is better to die, than to be wrong"



repair of damaged DNA





repair of damaged DNA





accumulation of errors



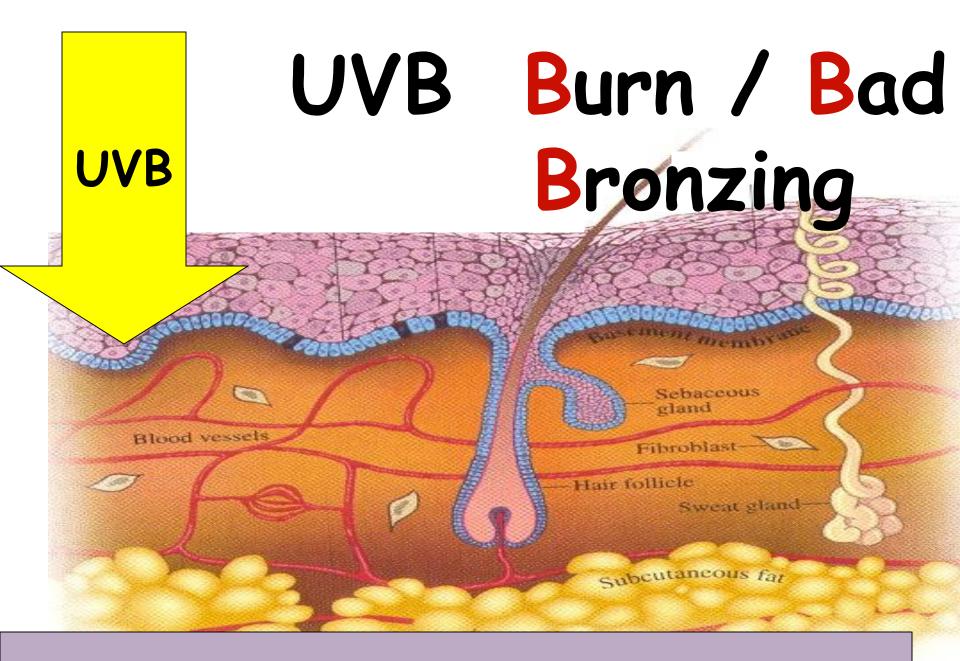
20-3<mark>0 years</mark>



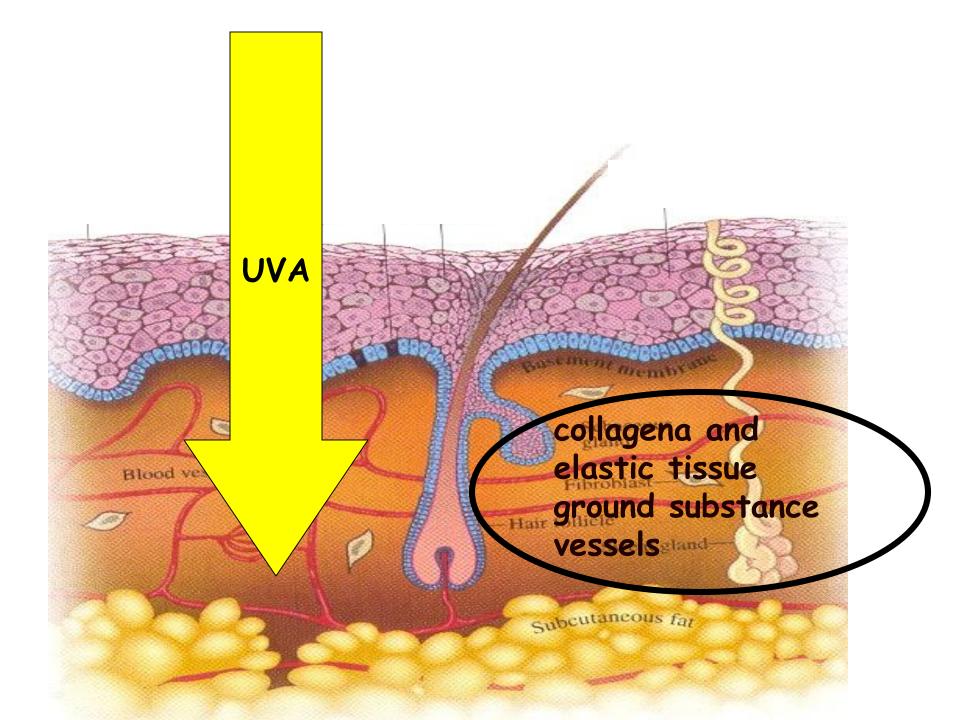


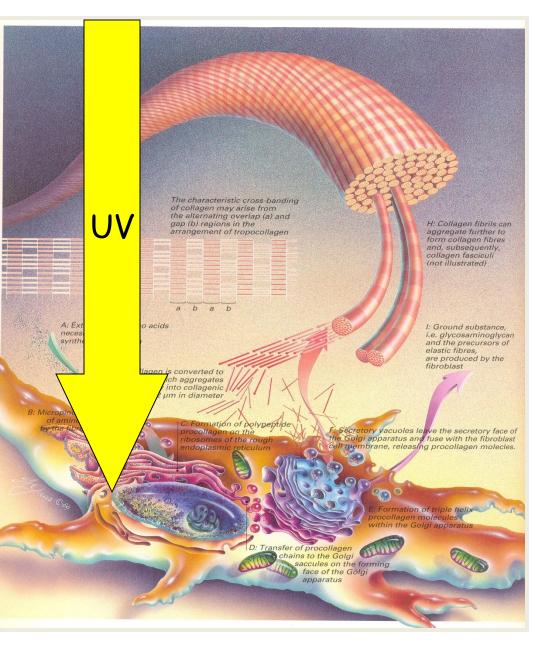


field of cancerisation

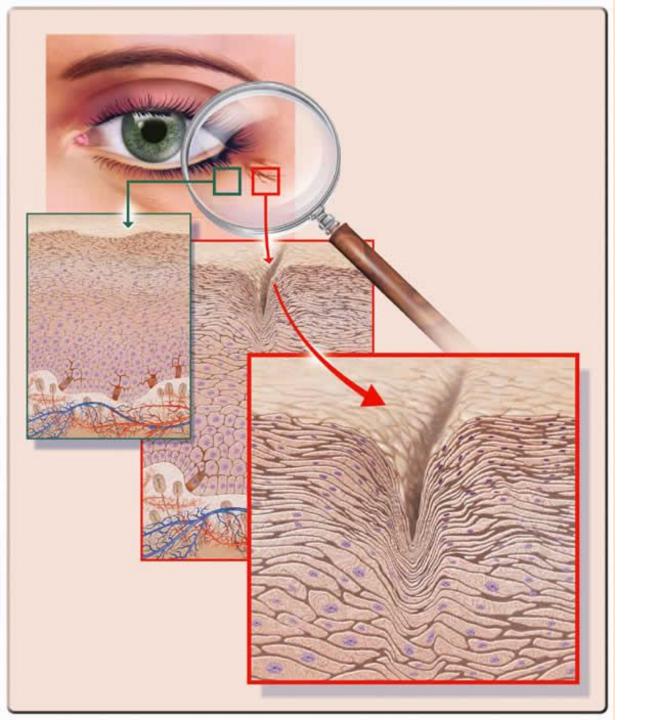


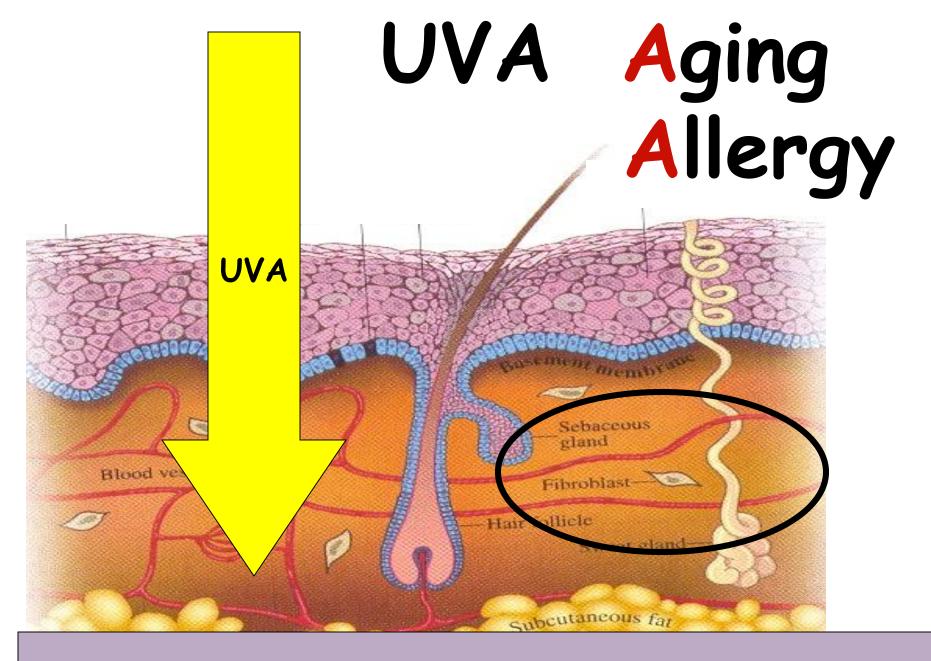
UVB- lentigo, actinic keratosis, carcinoma, melanoma



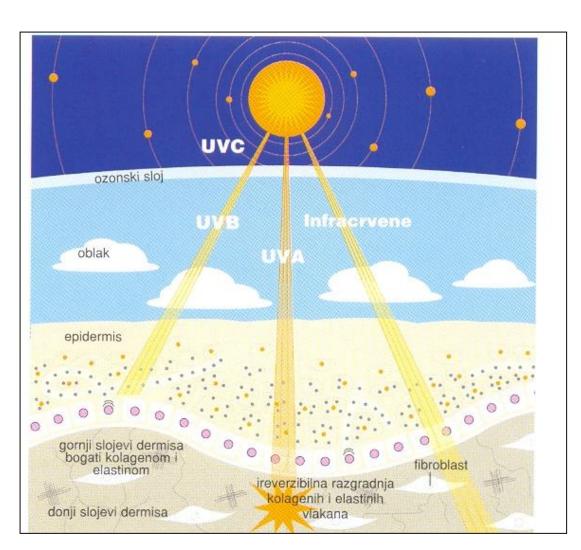


collagen synthesis and destruction after UV exposure matrix metalloproteinases(MMPs)





UVA - photoaging, photosensibilisation, skin cancer, melanoma



UVA

- -passes through the clouds
- -passes through the glass
- -passes through clothing
- -bleaches the colour
- -constant throughout the year

UVB

- -passes through the clouds
- -don't pass through the glass
- -the strongest from III-IXm

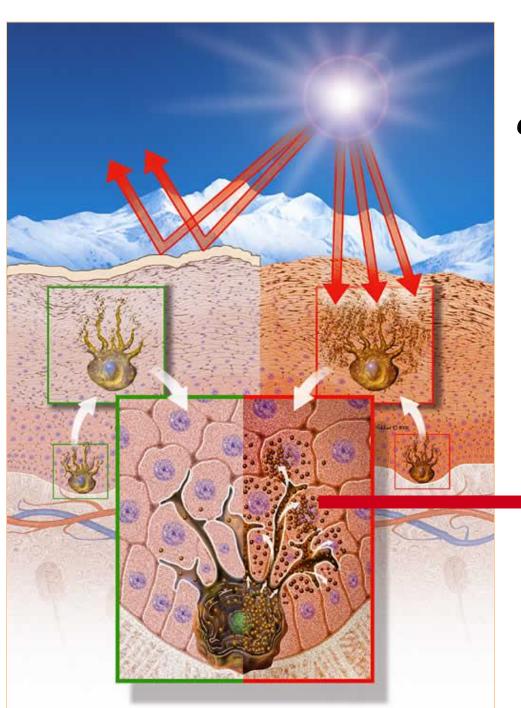




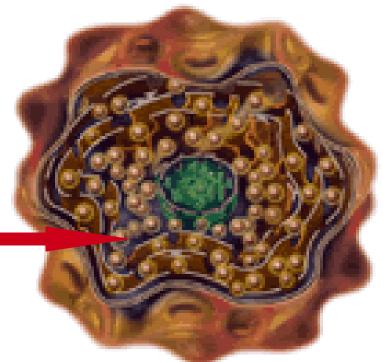
Skin types according to Fitzpatrick: IV type I type (Celtic origin) II type

III type

80%UV up to 18. years



every 10 years 8-20% less



melanocytes



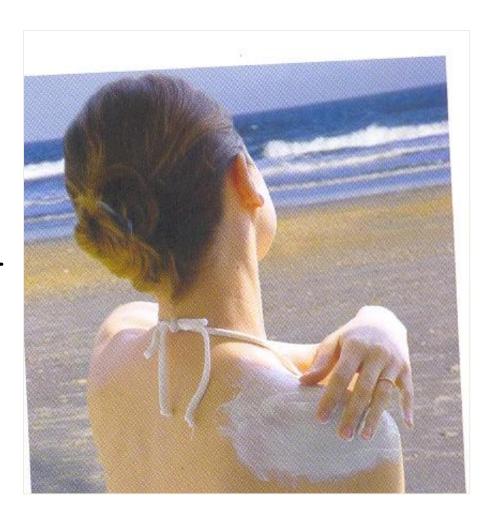
SPF 4

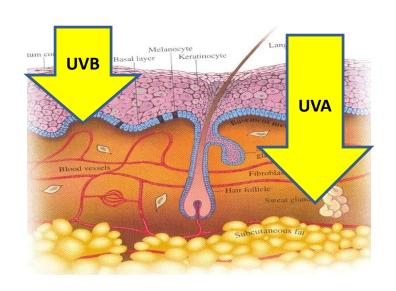
water resistant after 40 min in water

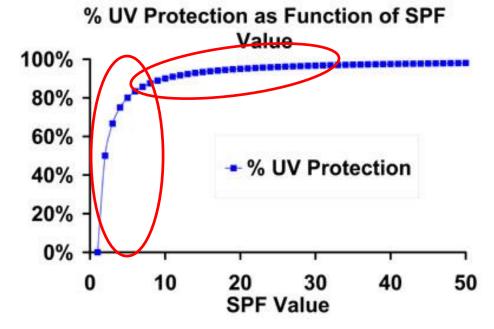
very water resistant /water proof/ after 80 min in wateru

SPFx20 min

safe period without burning







SPF not linear scale

 SPF 2
 50%

 SPF 4
 75%

 SPF 8
 87%

 SPF 16
 93,6%

 SPF 32
 96,9%

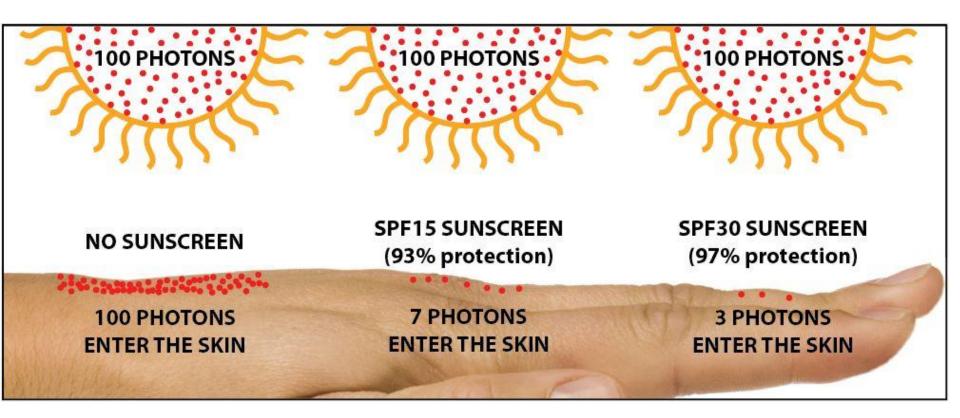
 SPF 64
 98,4%

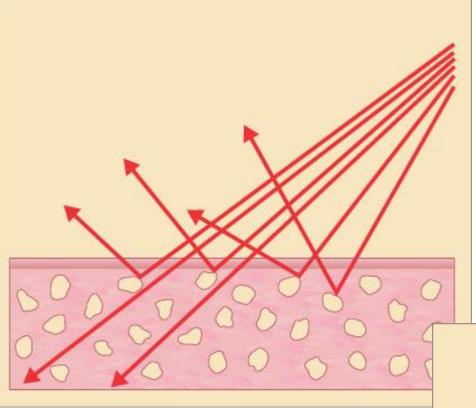
PPD (persistent pigment darkening)

measure for UVA

PPD 10 around 90% protection PPD 15 and > very good protection

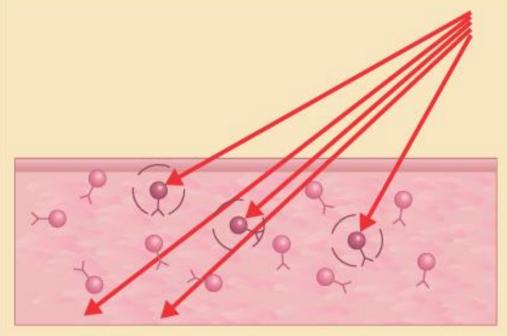
PPD = 1/3 SPF





reflexion

absorption



Be careful of reflexion:

sand snow water surface



Tanning booths (entirely UVA)



5x more emitted energy than during summer at noon

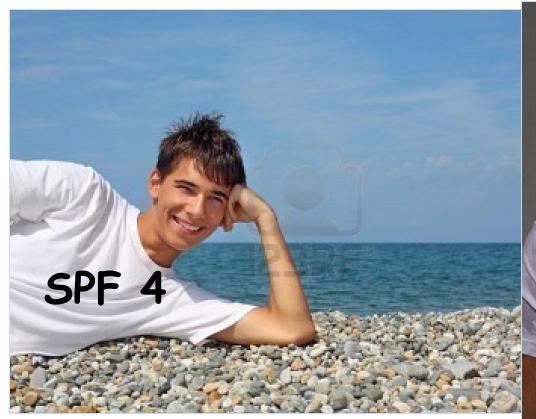


spreading of creams

20-30' before UV exposure



85% wipe off with a towel









UV protection clothing

density weaving type of material

polyester wool silk naylon

cotton rayon

UPF for clothing (UV protection factor)





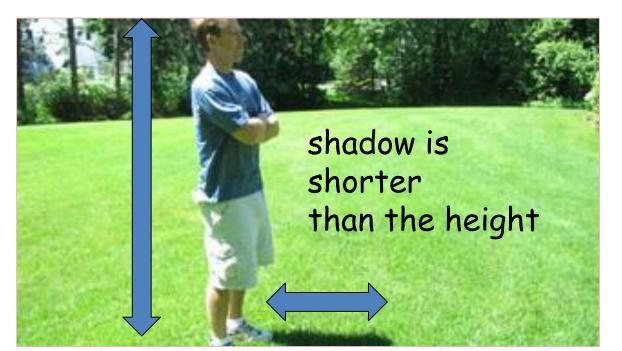
UPF 22

UPF 257

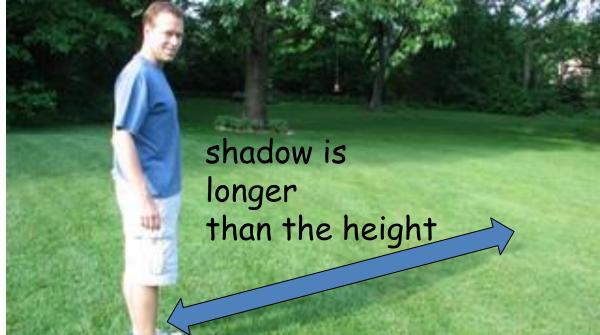


sand colour

UPF <6

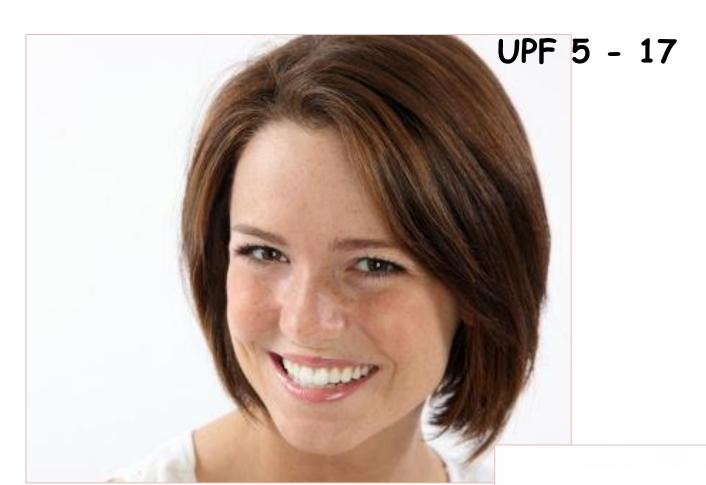


10 am - 4 pm the strongest UVB

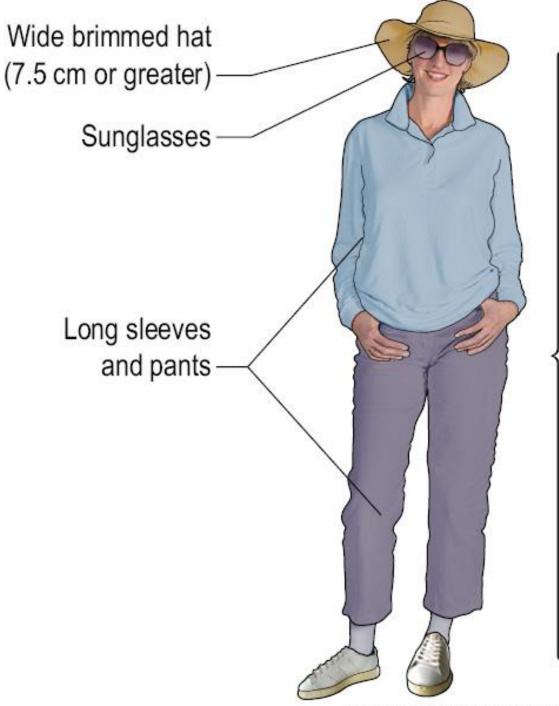




wide brimmed ho







Factors increasing sun protection of clothing

Increased tightness of fabric weave

Wearing dry clothing

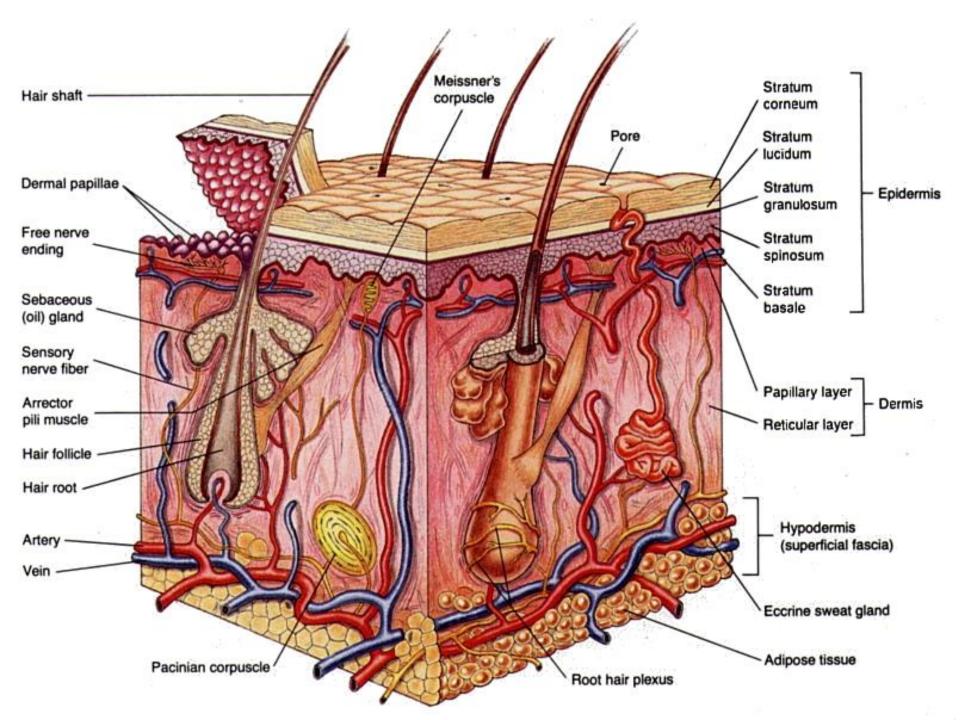
Type of fabric (polyester > nylon, silk, wool > cotton, rayon)

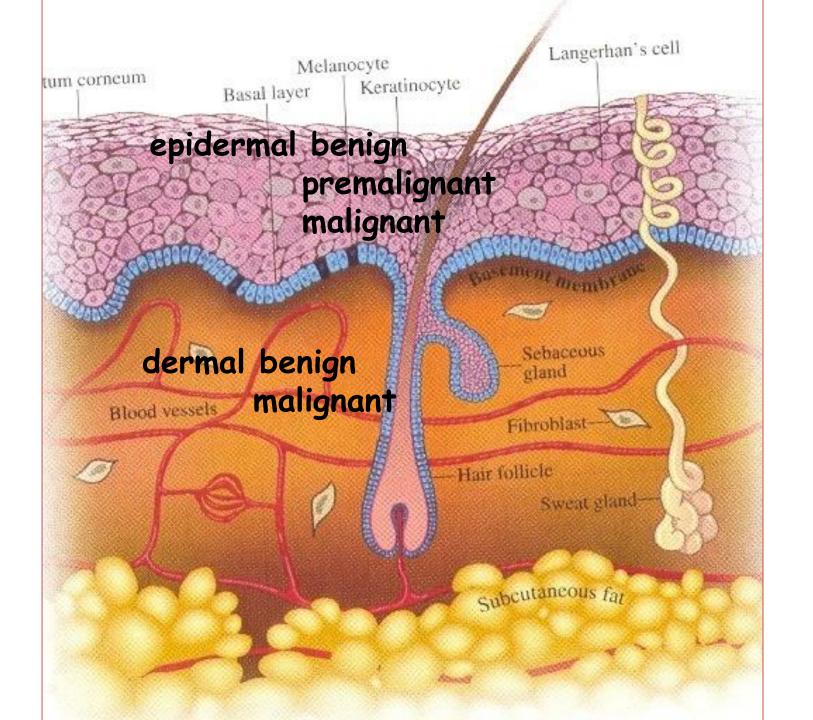
Loose fitting items

Pre-washing

Chemical additives (e.g. optical whitening agents)





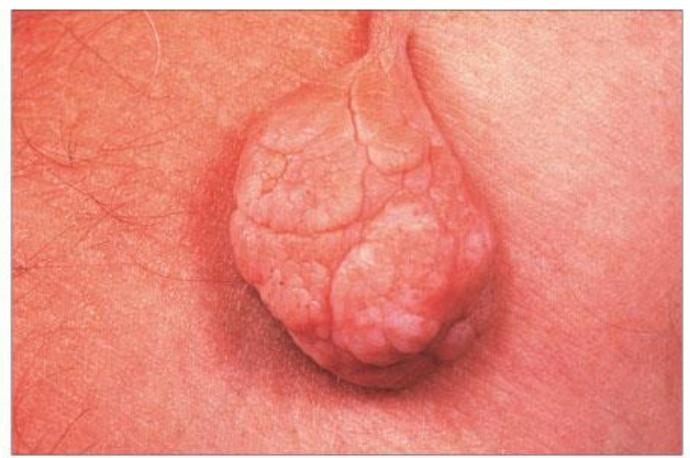


Epidermal benign tumours



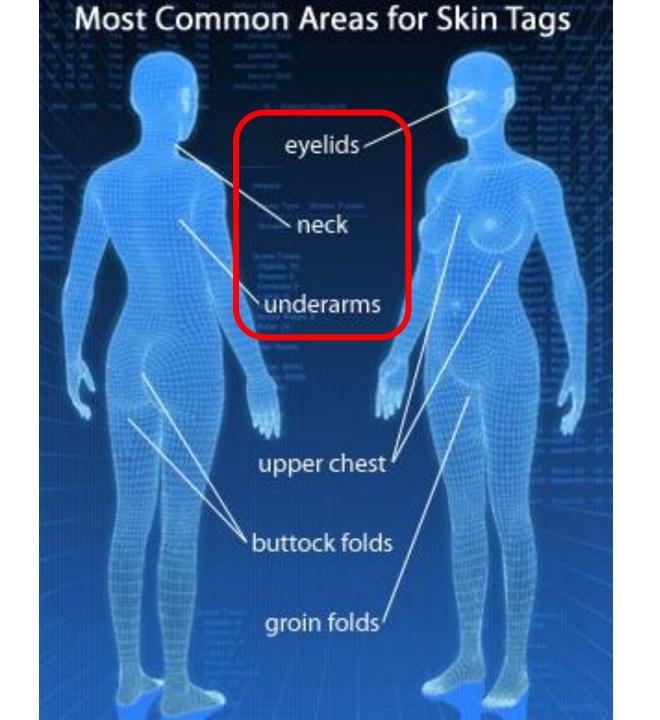
- ·Seborrhoeic keratosis
- ·Cutaneous horn

Skin tags:



common benign outgrowths of skin

most common in middle-aged and elderly

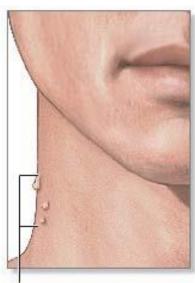




most common in obese women sometimes familial trait

look unsightly may catch on clothing and jewellery

skin tags



Skin tags

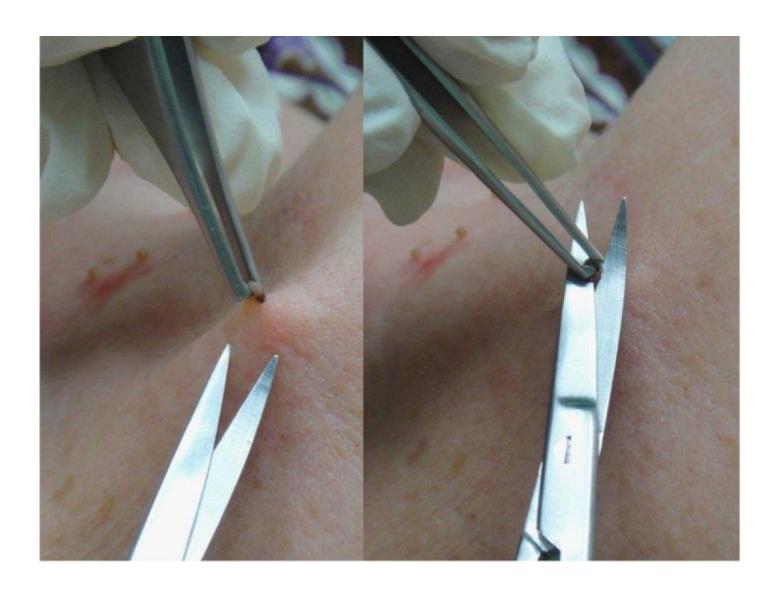
Super-freezing of skin tag tissue (cryotherapy)



Treatment:

snipped of with scissors liquid nitrogen elecrocoagulation





snipped of skin tags with scissors

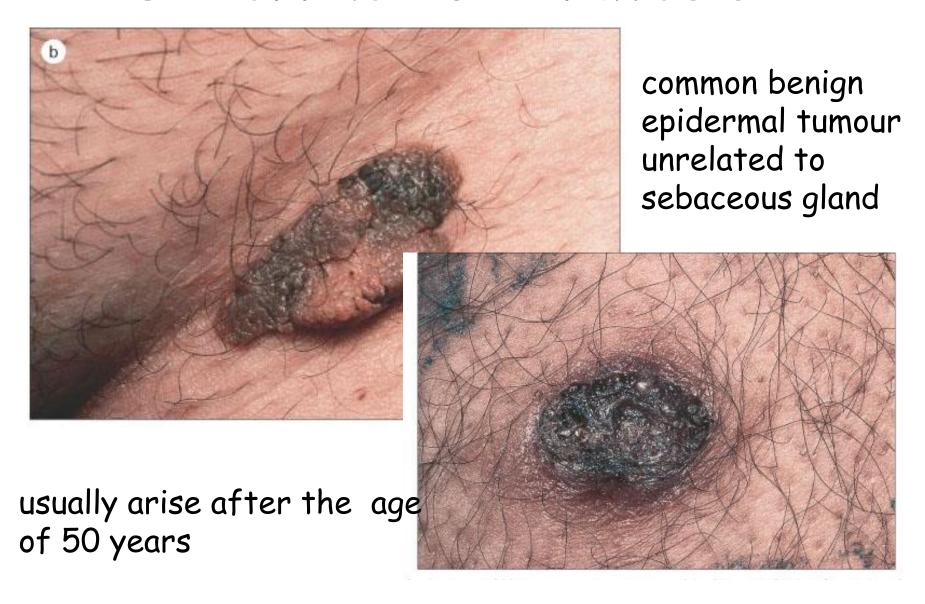
Epidermal benign tumours

·Skin tags

Seborrhoeic keratosis

·Cutaneous horn

Seborrhoeic keratosis



unknown causative agent multiple - may be inherited

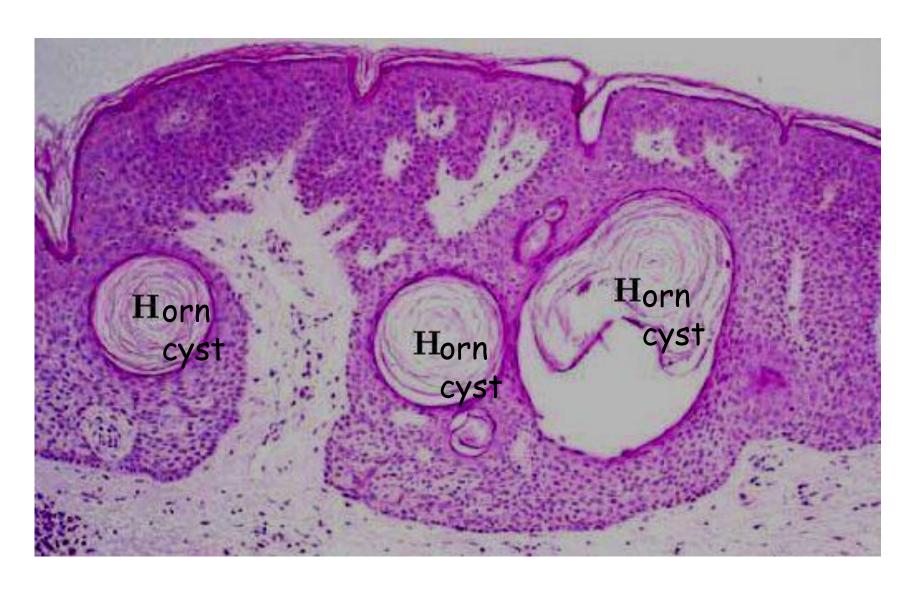


seborrhoeic keratosis (seborrhoeic wart)

numerous small dry white/grey stuck-on lesions

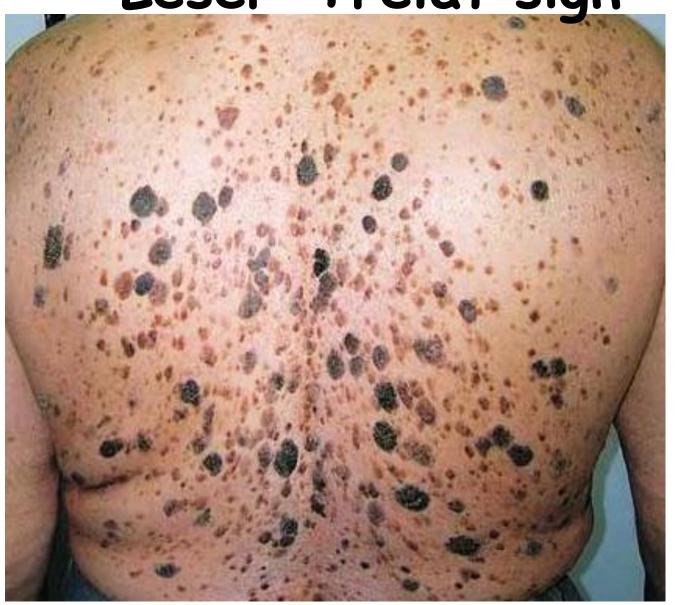


stucco-keratosis around the ankles after age of 50 years



histology of a seborrhoeic keratosis

Leser-Trelat sign



the sudden eruption of hundreds of itchy lesions associated with internal malignancy

Treatment:

liquid nitrogen removing with curette electrocoagulation snipping of

Epidermal benign tumours

- ·Skin tags
- ·Seborrhoeic keratosis
- ·Cutaneous horn



may resemble a viral wart

keratin projection that is taller than it is broad

cutaneous horn

The histology should be checked

Naevi

refers to a skin lesion that has a localized excess of one or more types of cell in a normal cell site - cutaneous hamartoma



linear epidermal naevus of temporal area



example of cutaneous mosaicism follow Blaschko's lines

linear epidermal naevus



The current hypothesis is that a patch of tissue that follows a Blaschko line represents a clone of cells derived from a single cell in the early embryo



linear epidermal naevus - keratinocytes are genetically different from their normal appearing neighbours

Melanocytic naevi



localized benign tumours of melanocytes
the cause is unknown /genetic factors
sun exposure during childhood/

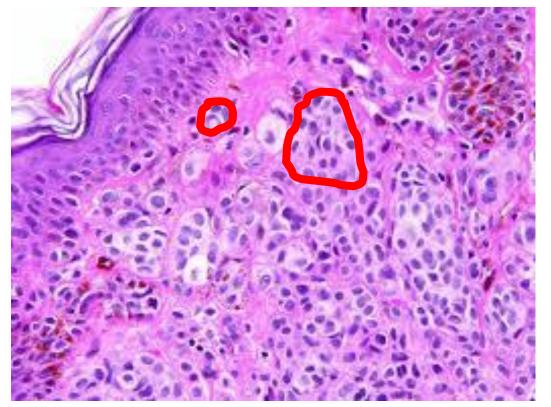


most naevi appear in early childhood sharp increase during adolescence and after sunburns

Further crops may appear during:

pregnancy
oestrogen therapy
flare-ups of LE
after cytotoxic chemotherapy or immunosuppression

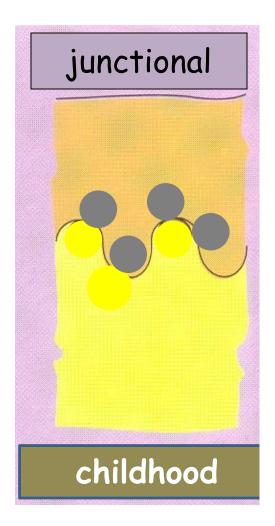
New melanocytc naevi appear less often after the age of 20 years



melanocytes are sorted in form of nests

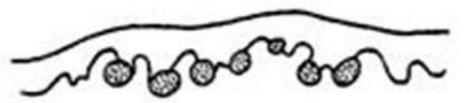


Maturation of naevi

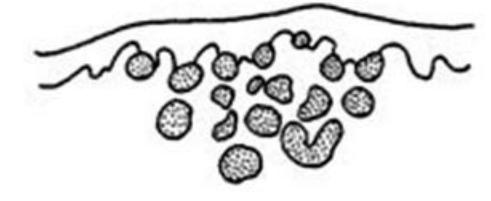


mole must follow or be accompanied by chronological age

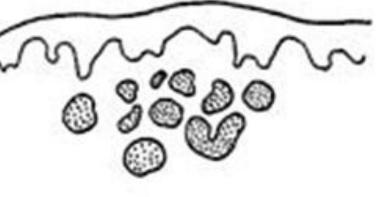
Junctional



Compound



Intradermal



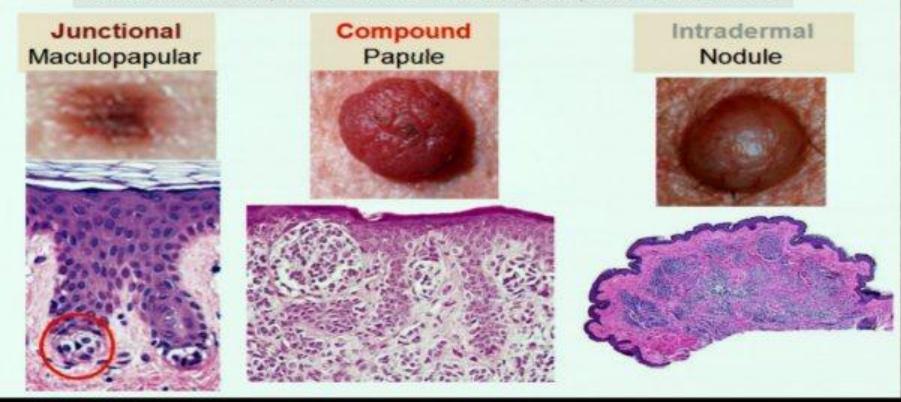
Maturation of naevi junctional compound childhood intradermal puberty adolescence and mature age

Melanocytic Nevus Junctional → Compound → Intradermal

Range in size 2-10 mm; most 3-7 mm in diameter.

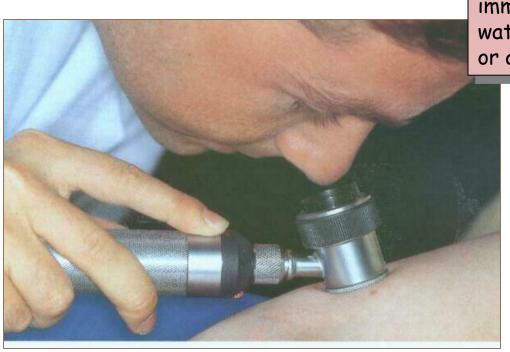
Remarkably round, evenly pigmented, soft on palpation.

Occur on sun-exposed areas - vast majority on face & neck



Dermatoscopy:

Serves for examination of <u>pigmented</u> and vascular lesions



immersion with water, paraffin oil or alcohol

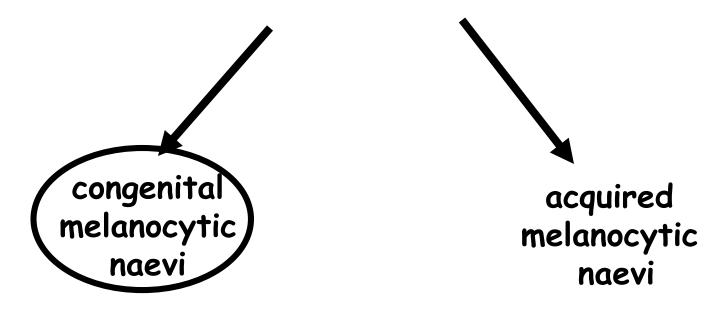








Naevi



Congenital naevi



controls 1-2x/year



medium-sized /Zitelli's naevus/ 2-20 cm



large >20 cm



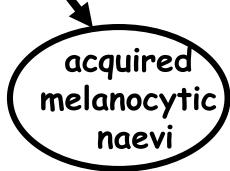
congenital naevi

the risk of developing melanoma appears to be maximum in the childhood and adolescence



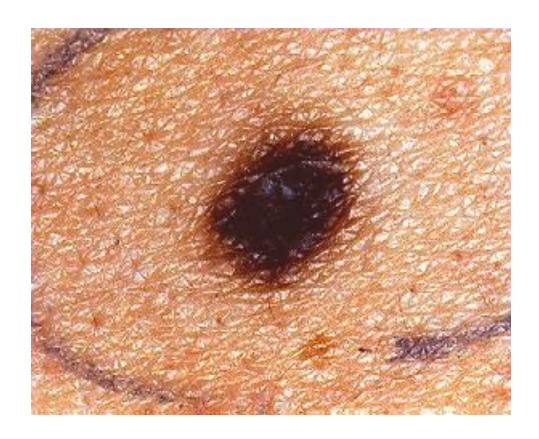
Naevi





junctional naevus compound naevus intradermal naevus Spitz naevus blue naevus atypical naevus

Junctional naevus



roughly circular macules mid brown to black

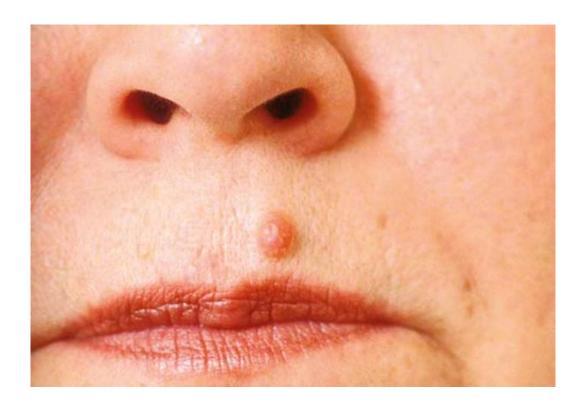
palms, soles, genital region, mucous membranes

Compound naevus



domed pigmented nodules od up to 1 cm arise from junctional naevi as melanocytes "dropp off" light brown, smooth, hyperkeratotic papillomatous

Intradermal naevus



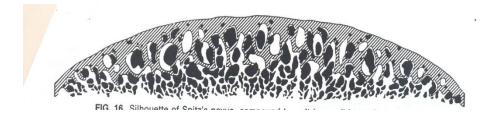
like compound but less pigmented and skin-coloured

Spitz naevus (juvenile melanoma)

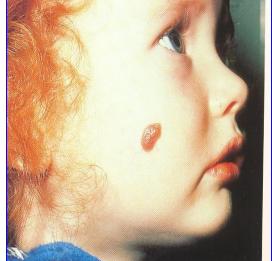


most often in children develop over months or two as pink or red nodule

Naevus Spitz:









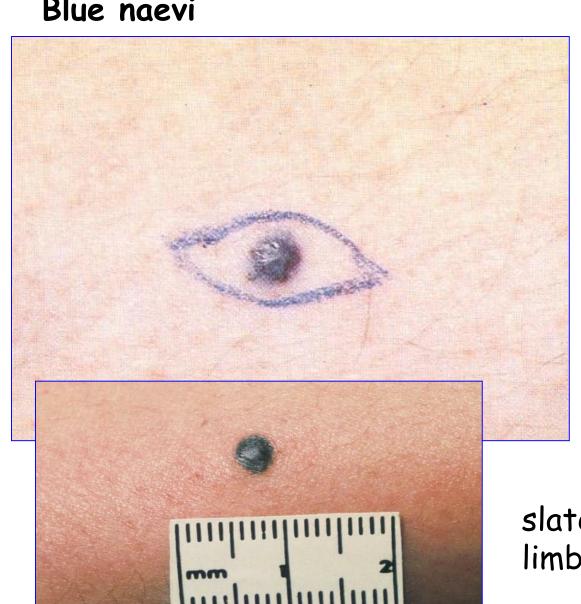


face and legs

excised due to rapid growth

no alteration toward melanoma

Blue naevi





slate grey-blue colour limbs, lower back

excision should be recommended

Mongolian spots

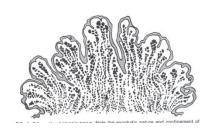


bruise-like greyish areas lumbosacral region

fade during childhood

Ackerman's division according to silhouette:

1. Unna's naevus



2. Miescher's naevus



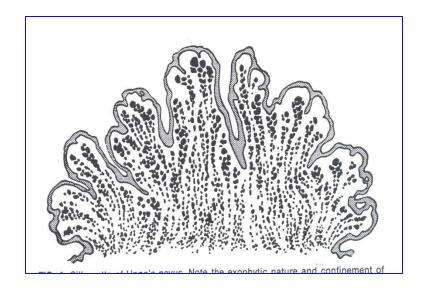
3. Spitz's naevus



4. Clark's naevus



Naevus Unna:





soft naevus

women neck and trunk

Naevus Miescher:



women on the face /nose, chin, forhead, around mouth/

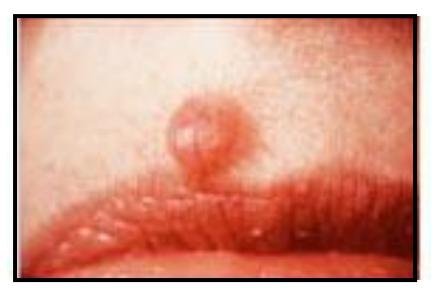




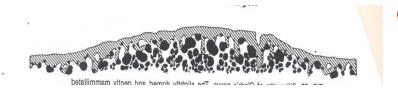
no alteration toward melanoma

Naevus Miescher



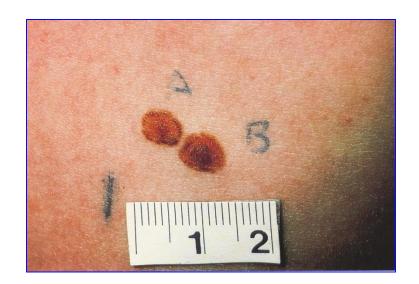


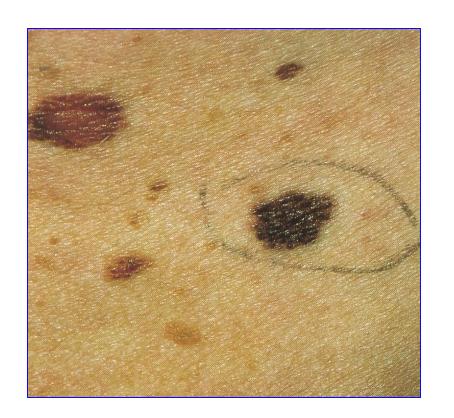
Naevus Clark:

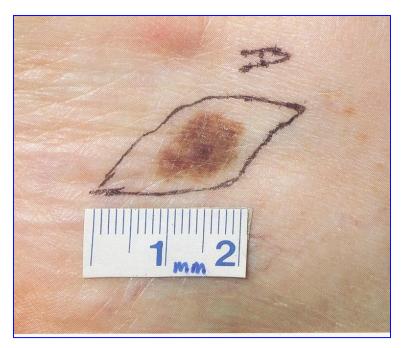


dysplastic or atypical naevus









dysplastic or atypical naevi

50% melanomas

Dysplastic naevi are more often found in person with numerous naevi



Atypical naevus/mole syndrome



sporadically run in families as an AD

melanoma prone CDKN2A mutation (9p21)

follow up 6-monthly for life

most on the trunk irregular edges >1 cm

Naevus Sutton /hallo nevus/

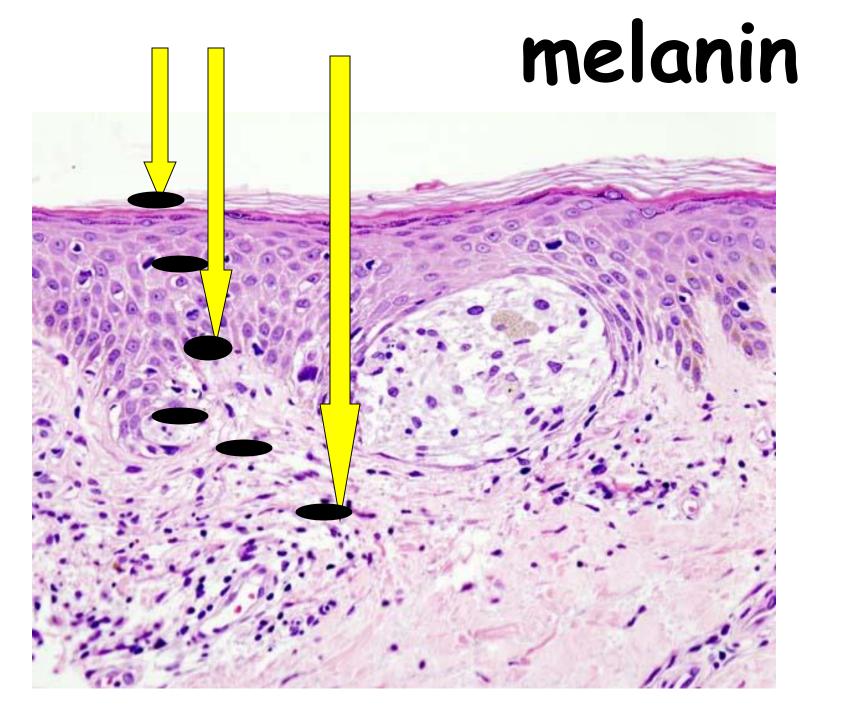




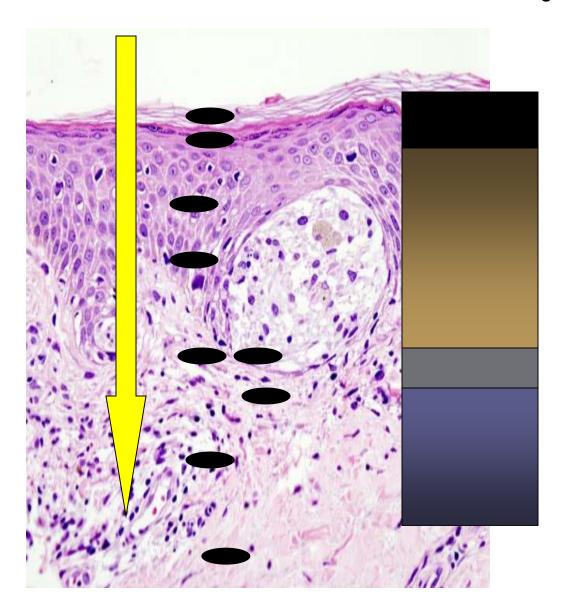
very often with vitiligo

observation
UV protection
in older persons-be careful

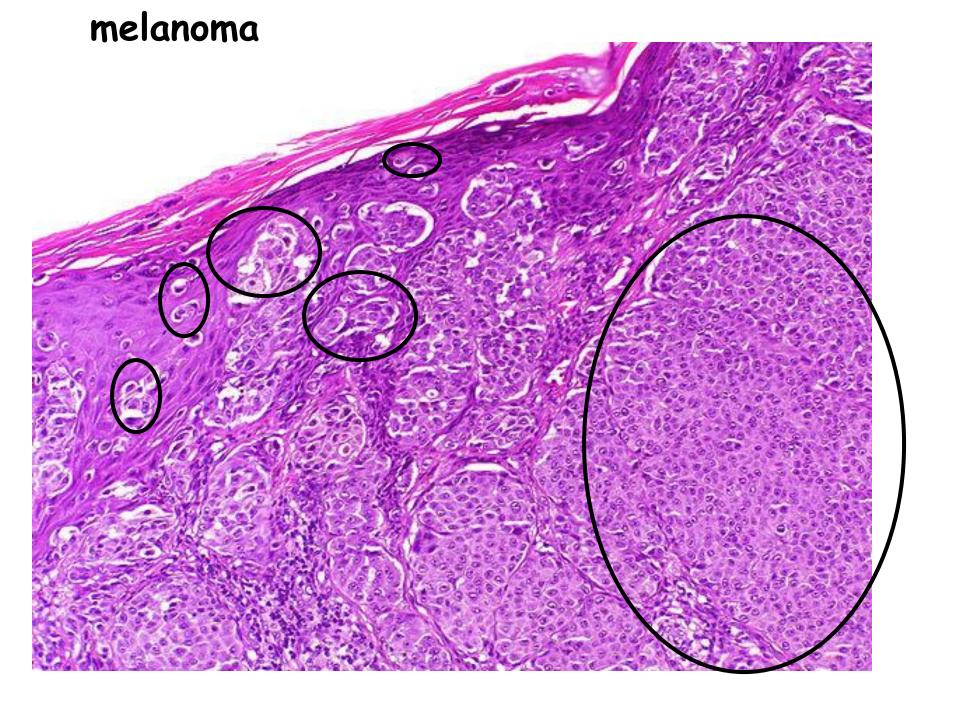
expectation

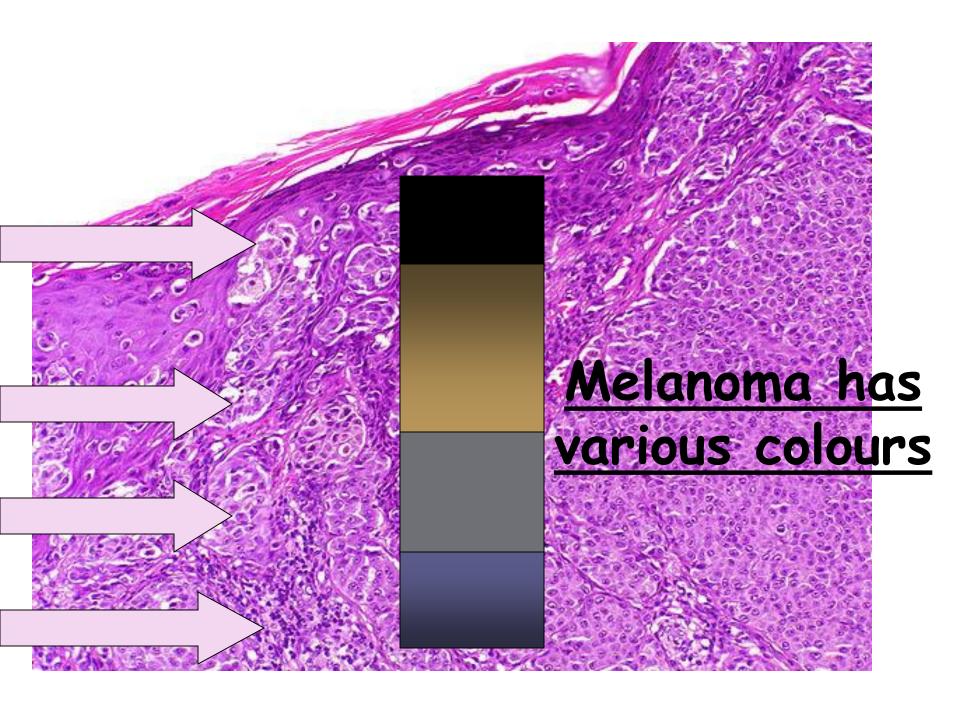


melanin









Complications:

Inflammation - pain and swelling (trauma, folliculitis)

Malignant changes - 0,5-10% (for large congenital naevi and atypical naevi of melanoma-prone families). It should be considered if the following changes occur:

- -enlargement
- -increased and decreased pigmentation
- -altered shape
- -altered contour
- -inflammation and ulceration
- -itch or bleeding

ABCDE

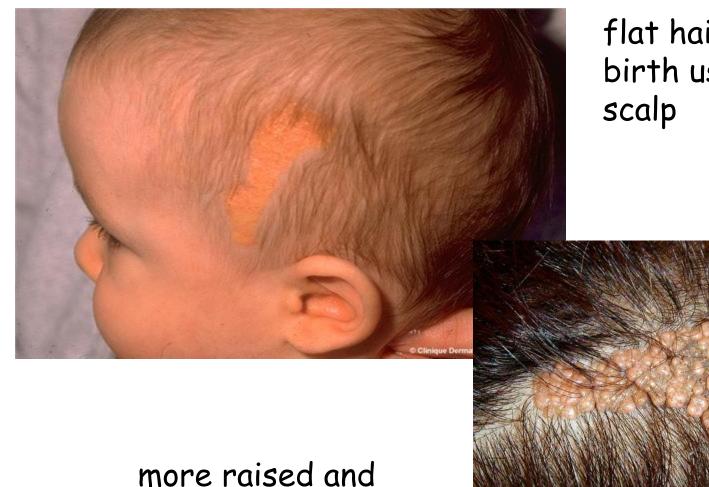
- A asymmetry
- B border
- C colour
- D diameter greater than 0,5 cm
- E evolution (change)

Treatment:

Excision is needed when:

- -a naevus is ugly
- -malignancy is suspected or is known risk
- -naevus is repeatedly inflamed or traumatized

Sebaceous naevus



yellow during puberty

flat hairless area at birth usually in the scalp

Epidermoid cysts



often on scalp, face, behind the ears and trunk

after rupture or squeezing cheesy material comes out

Milia



small subepidermal keratin cysts

face

seed-like papules

Chondrodermatitis nodularis helicis (ear corn)



chronic inflammation painful nodule often in men

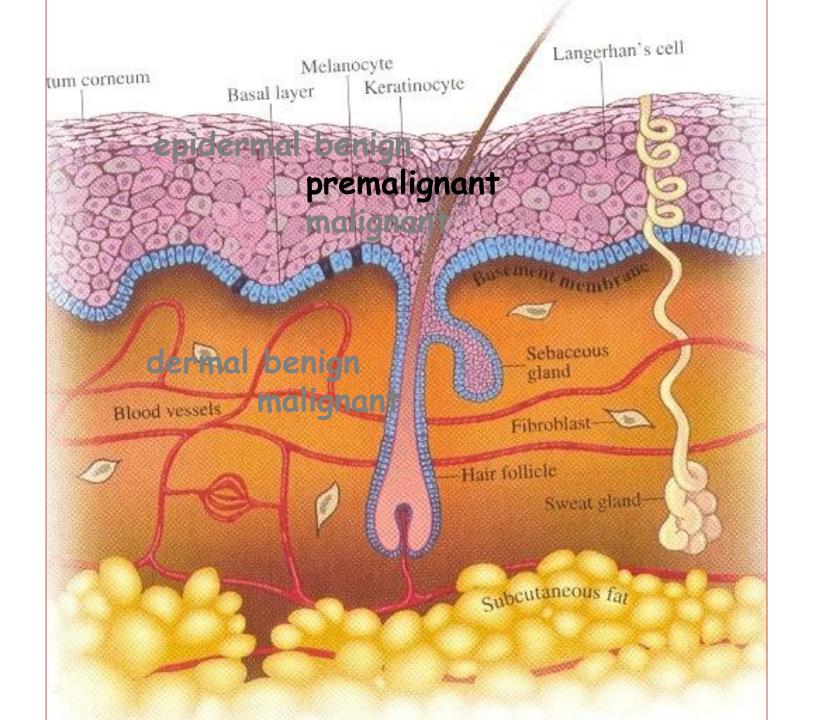
teneder prevents sleep

Treatment: wedge resection

Chondrodermatitis nodularis helicis (ear corn)







Premalignant lesions (carcinoma in situ)

long-lasting UV exposure

HPV (16 and 18)

exposure to chemicals- arsenic

- tar

chronic infections - osteomyelitis

- fistula

scars due to burns, TBC, DLE, LSA

scars after irradiation

Premalignant lesions

Keratosis actinica

Cheilitis actinica

Morbus Bowen

carcinoma planocellulare

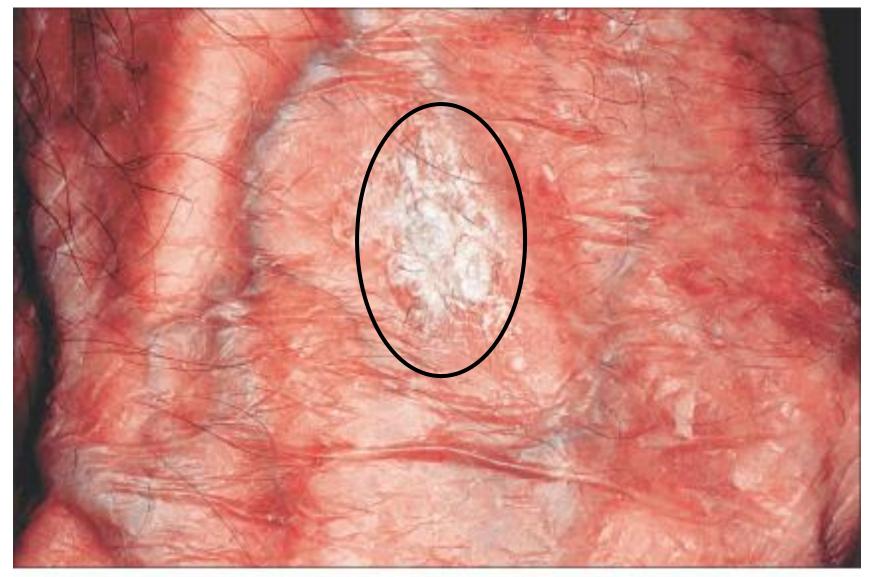
Keratosis actinica: in situ





60% squamous cell carcinomas 1/3 of men over 70 years had AK

rough-surfaced lesions sun-damaged skin not seen in black skin



THE RESERVE CONTRACTOR OF THE PROPERTY OF THE

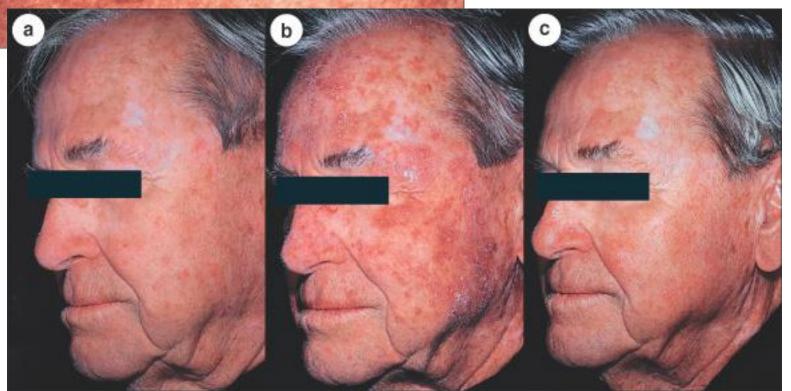


liquid nitrogen

5-FU

1-2xd

4-6 w





2-3x /week/16 weeks

Rx Only SOLARAZE GEL Diclofenac Sodium (18 mgg).

SOLARAZE GEL CONCEDENTS: Housement Sedium (18 mgg).

HORATIONS for the opposit Successor of some Increase.

HORATION for the opposit Successor of some Increase of some Increa

D.116G Sprink Germany

Made in Germany

WHEN ALTH

USUAL ADULT DOSAGE: 03 g of pil tops of a job localed to the effected

ston and amounted once the ston people or as directed by more physician. The small duration of therings is from 60 to 40 stop. Heats are participal waters for hell

Sons at controlled room temperature 27-25° C (6F-37° N) securiors permitted between 13'-36" C (0F-46" N) Fronta from basic Aread freezing. For control number and experition date, we charge of table and or carrier.

Prescribing Information.

lower cure rate



photodynamic therapy

Premalignant lesions

Keratosis actinica

Cheilitis actinica

Morbus Bowen

Cheilitis actinica:

Therapy:
cryotherapy
5-FU cream

squamous cell carcinoma in 17%

Premalignant lesions

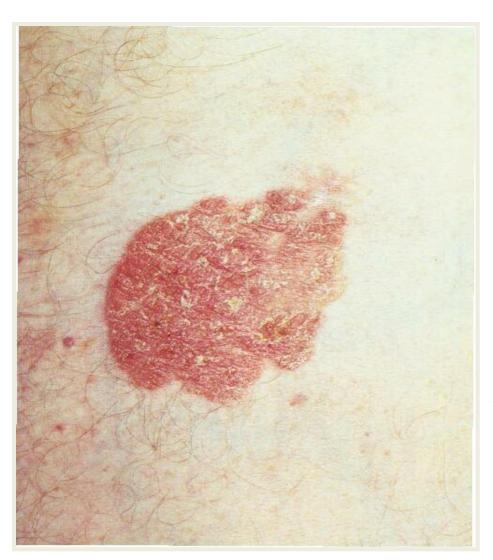
Keratosis actinica

Cheilitis actinica

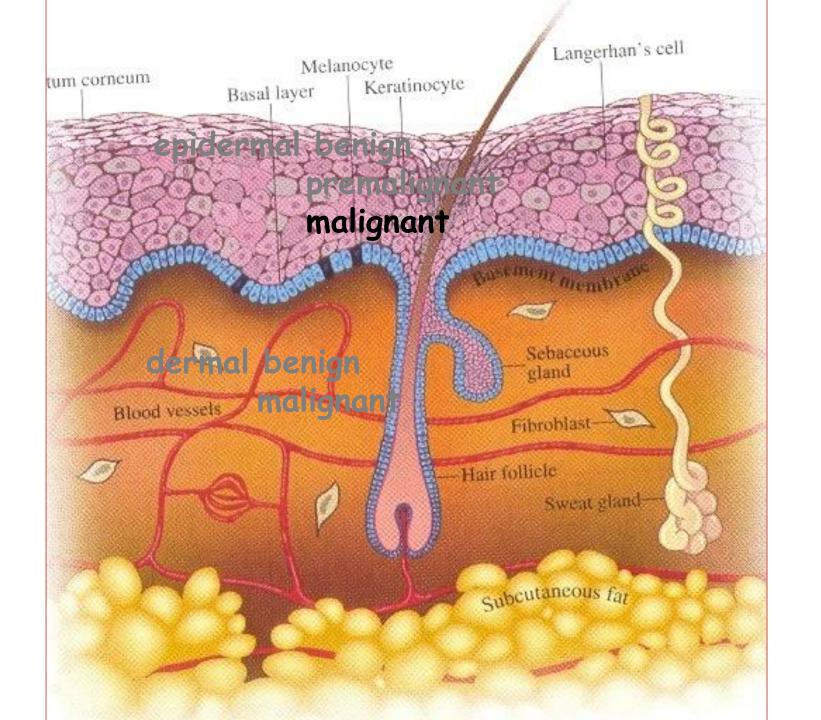
Morbus Bowen

carcinoma planocellulare in situ

Bowen's disease





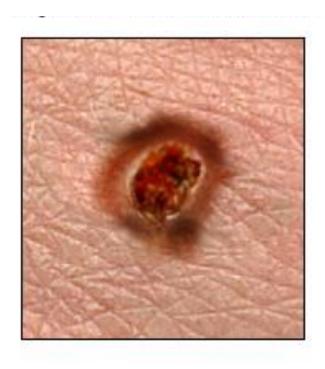


Malignant epidermal tumours

basal cell carcinoma

squamous cell carcinoma

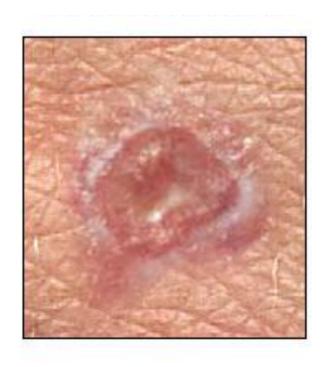


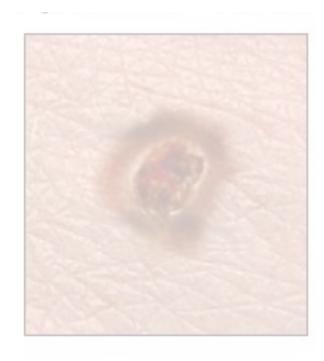


Malignant epidermal tumours

basal cell carcinoma

squamous cell carcinoma





Basal cell carcinoma



white race

sunny areas

high latitude

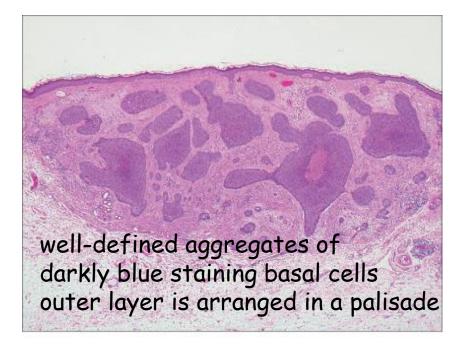
near equator

prolonged sun exposure

Basal cell carcinoma (rodent ulcer)

85% appears on the face, the most common invade locally, very rarely metastize





nodulo-ulcerative basal cell cracinoma



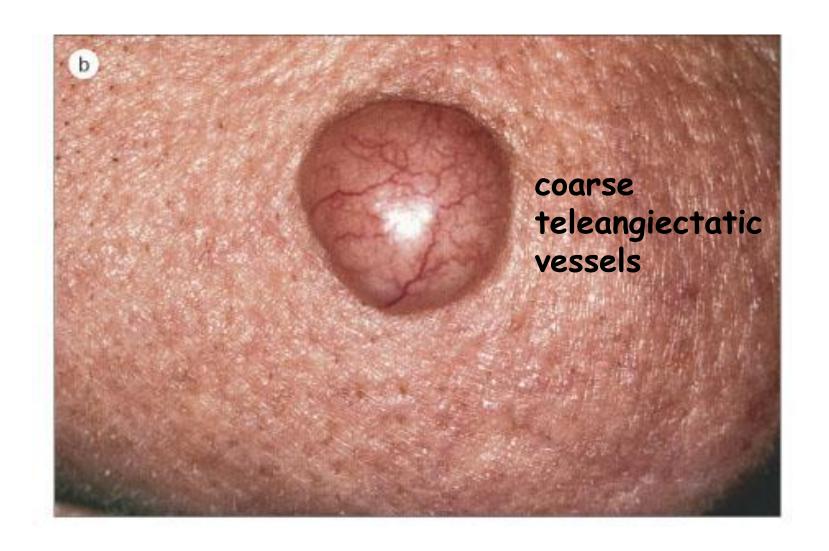
palisade - a high fence



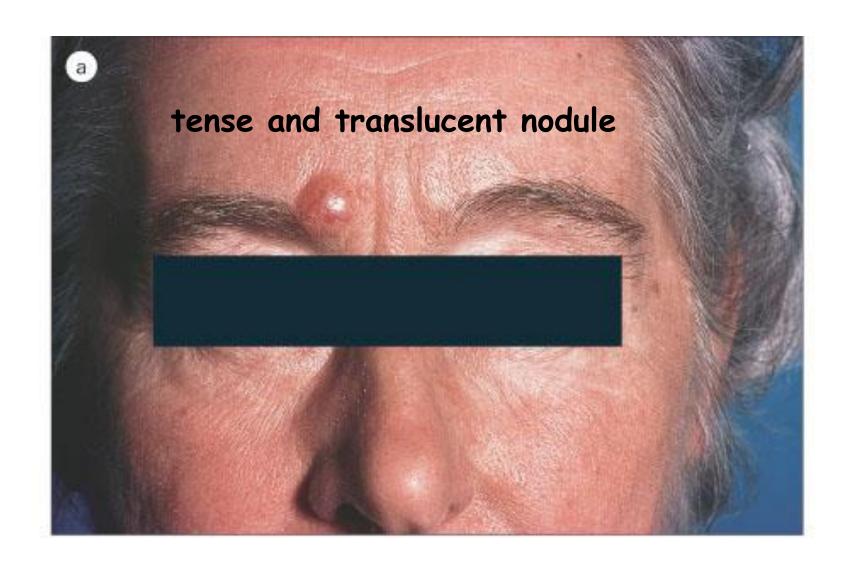
1-2 cm/5-10 years



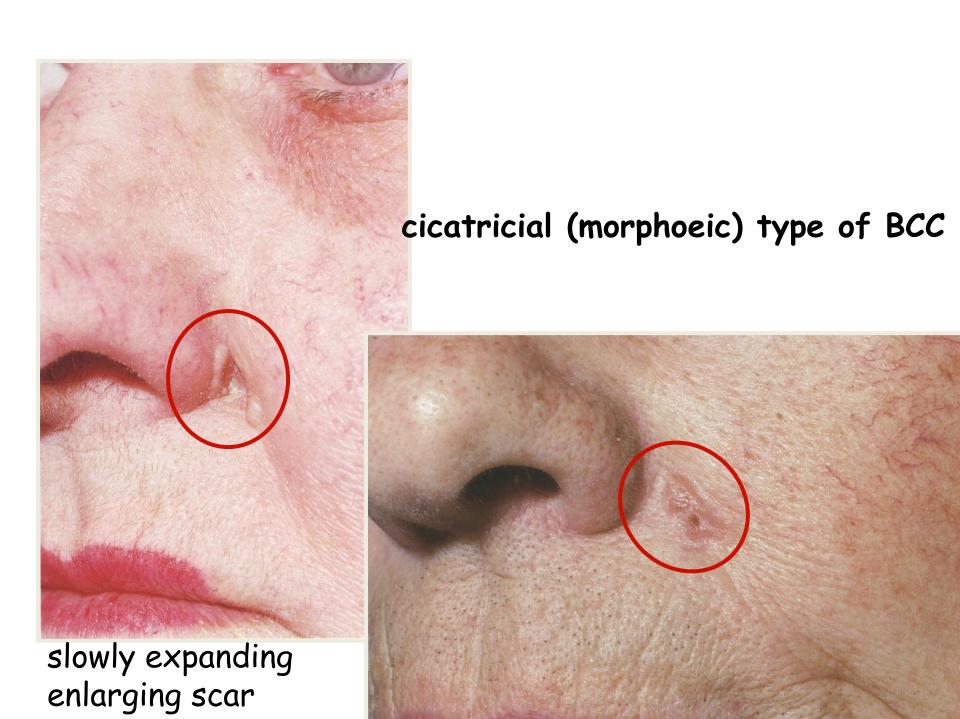
coarse teleangiectatic vessels



nodular basal cell carcinoma



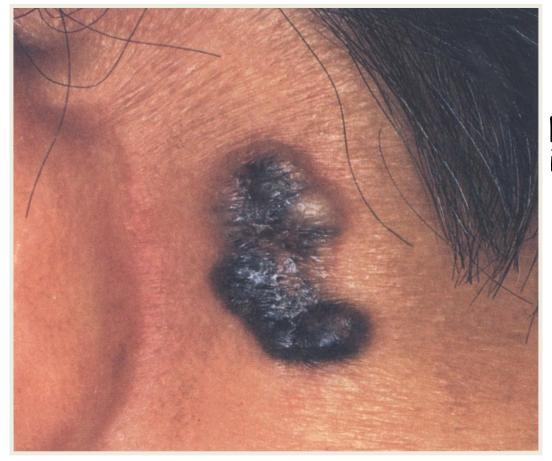
cystic type of basal cell carcinoma





superficial (multicentric) type of BCC

the most often on the trunk can grows to more than 10 cm



pigment may be present in all types of BCC

pigmented BCC

Treatment:

surgical excision (0,5 cm of surrounding normal skin)

Mohs's surgery (larger than 1 cm), nose, inner canthus nasolabial fold

radiotherapy - if is surgery contraindicated

PDT, cryosuregry - for superficial types of BCC

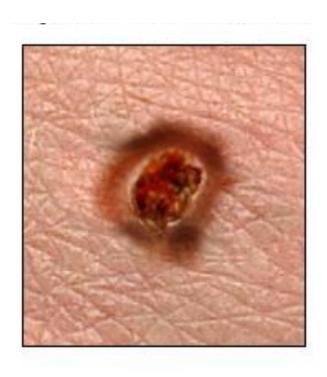
follow-up for up to 5 years

Malignant epidermal tumours

basal cell carcinoma

squamous cell carcinoma

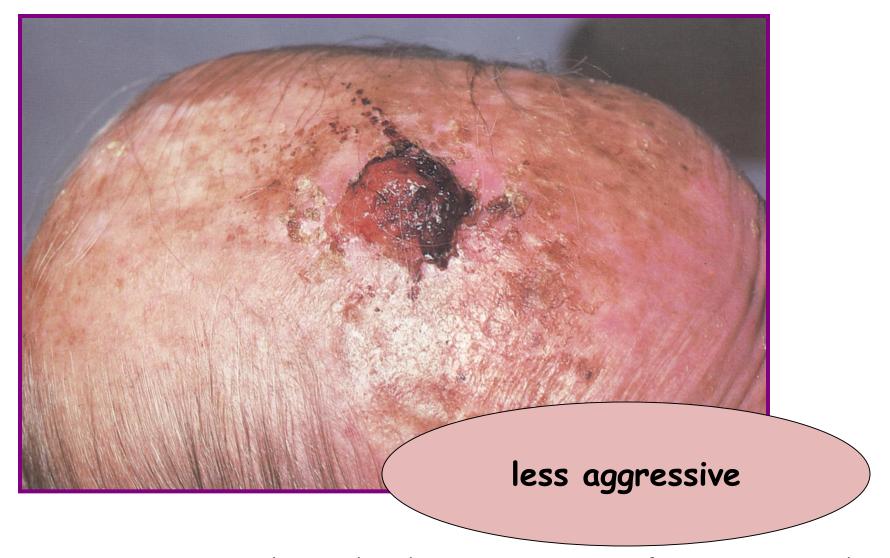






squamous cell carcinoma

SCC on photo-damaged skin



most SCC carry typical UV-induced p53 mutation - significant part UV radiation

SCC in scar after X-rays



more aggressive

SCC in scar after

chronic draining sinuses

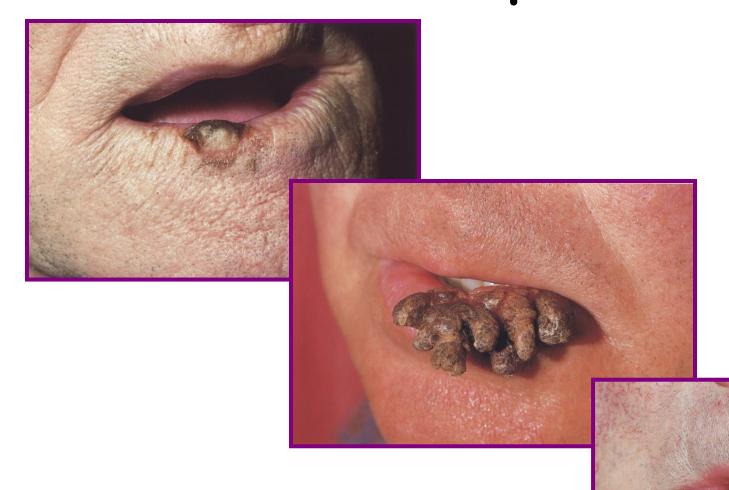
chronic ulcers

previous thermal injury

chronic inflammation

most likely to metastasize

SCC of the lower lip

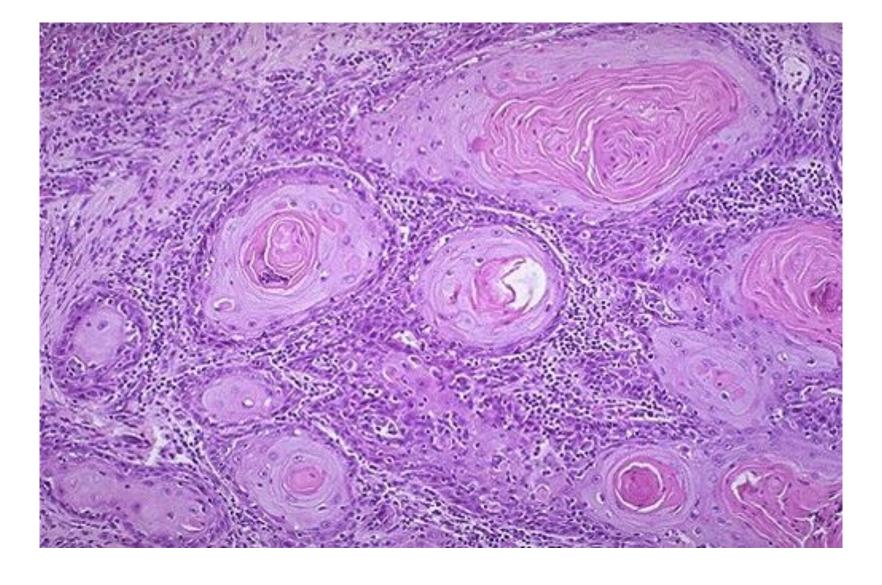


always have to palpate lower lip

surgical excision and irradiation







SCC with multiple keratin pearls

Treatment:

surgical excision (0,5 cm of surrounding normal skin)

Mohs's surgery (larger than 1 cm), for high risk tumours radiotherapy - if is surgery contraindicated

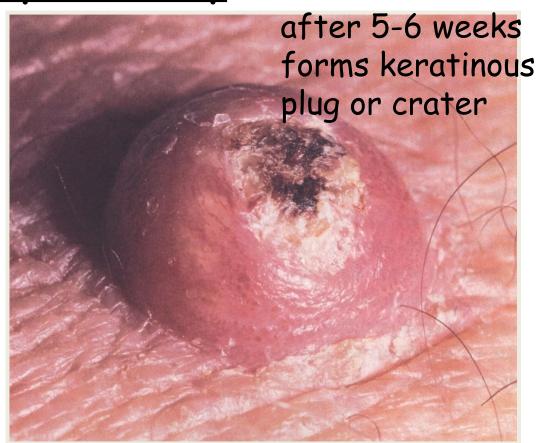
follow-up for up to 5 years

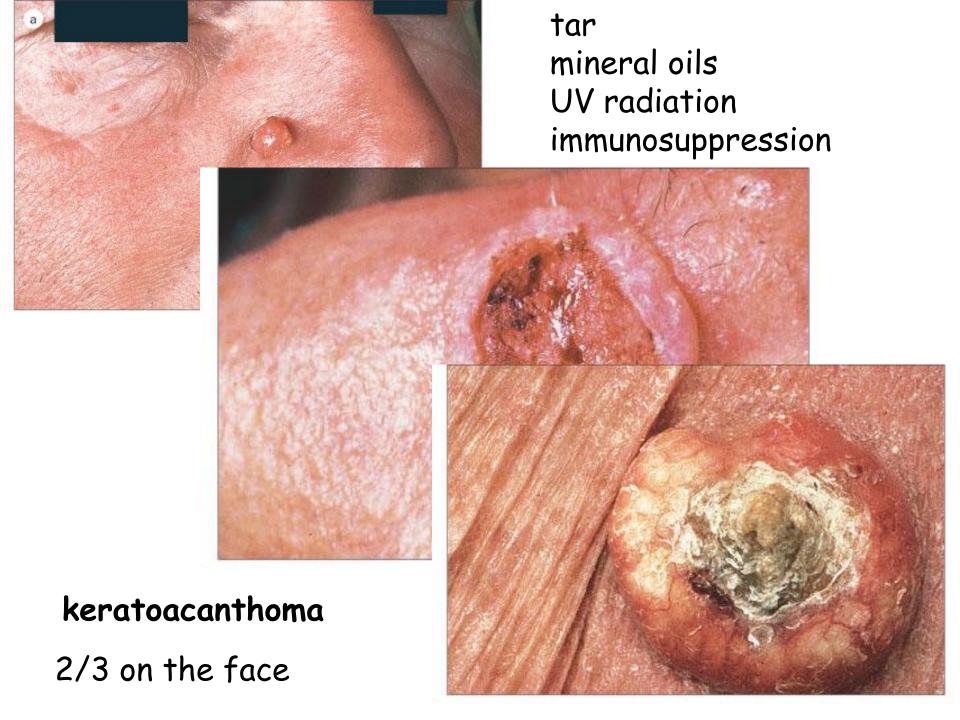
Other types of SCC

Keratoacanthoma:

Rapidly growing squamous cell tumours do not invade and resolve sponateously

very short history:
1 cm/1month







the lesion may resolve spontaneously over 6-12 months

Treatment:

surgical excision

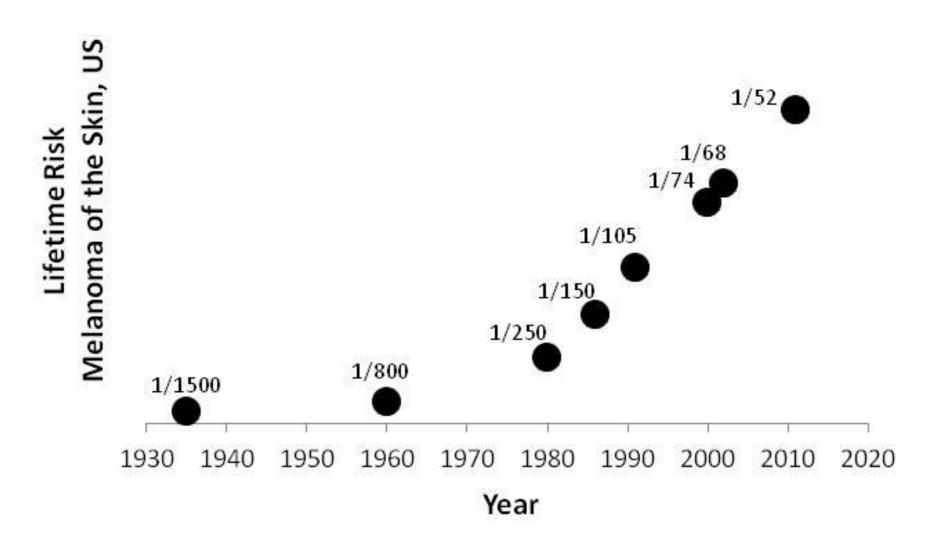


Melanoma

attracts a huge amount of publicity - often lethal

the incidence is doubling every 10 years

higher inicidence in white race



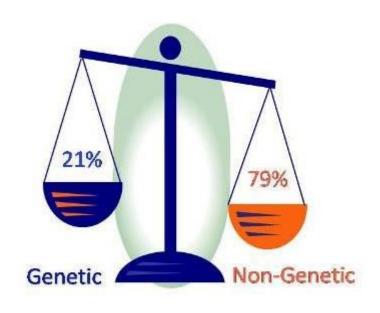
Increasing incidence of melanoma of the skin, US.

Causative agents

Susceptibility genes

Susceptible phenotypes

Sunlight



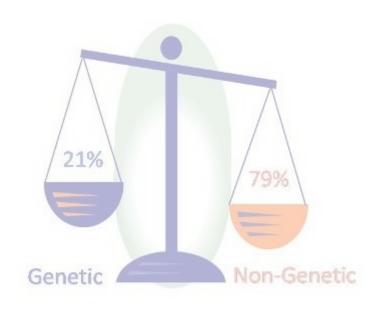
Pre-existing melanocytic naevi

Causative agents

Susceptibility genes

Susceptible phenotypes

Sunlight

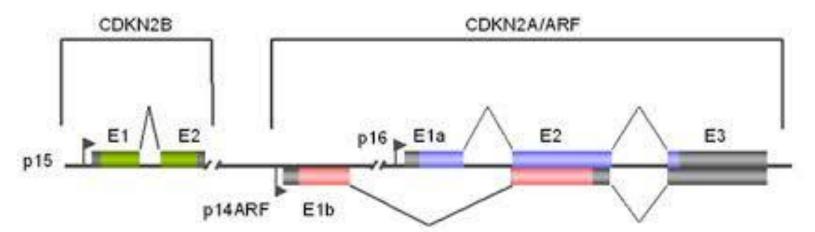


Pre-existing melanocytic naevi

Susceptibility genes

rarely (around 6%) melanomas are familial occurring in families where two or more first-degree relatives have a melanoma

molecular defects in tumor suppressor genes and onocogenes have been linked (cycline dependant kinase inh -CDKN2A)



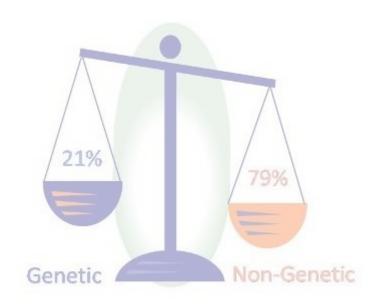
the most attracting and intersting area lies on chromosome 9p, known as CDKN2A

Causative agents

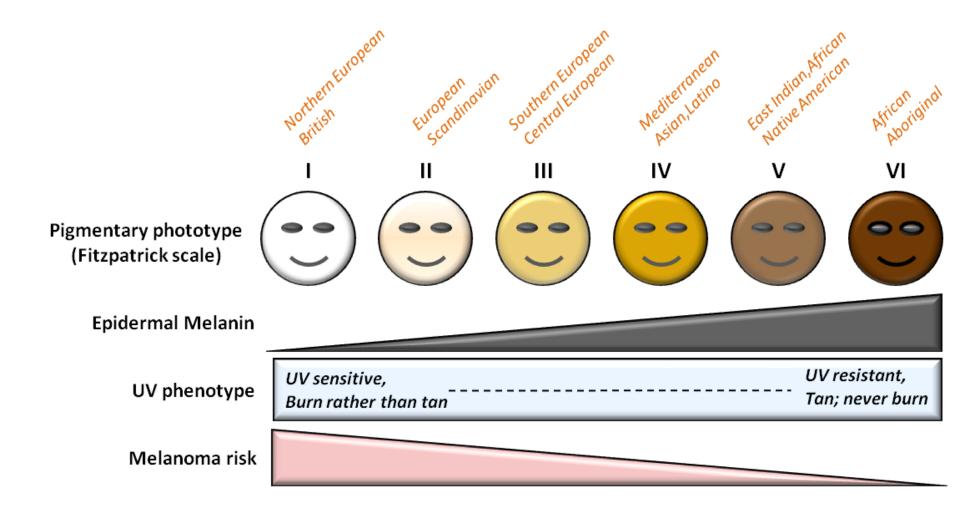
Susceptibility genes

Susceptible phenotypes

Sunlight



Pre-existing melanocytic naevi



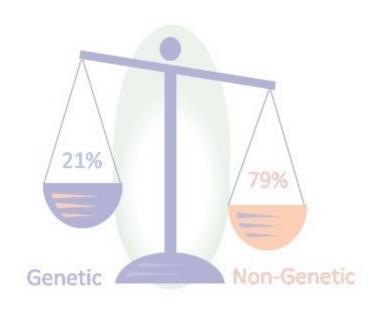
Melanoma risk varies according to skin complexion

Causative agents

Susceptibility genes

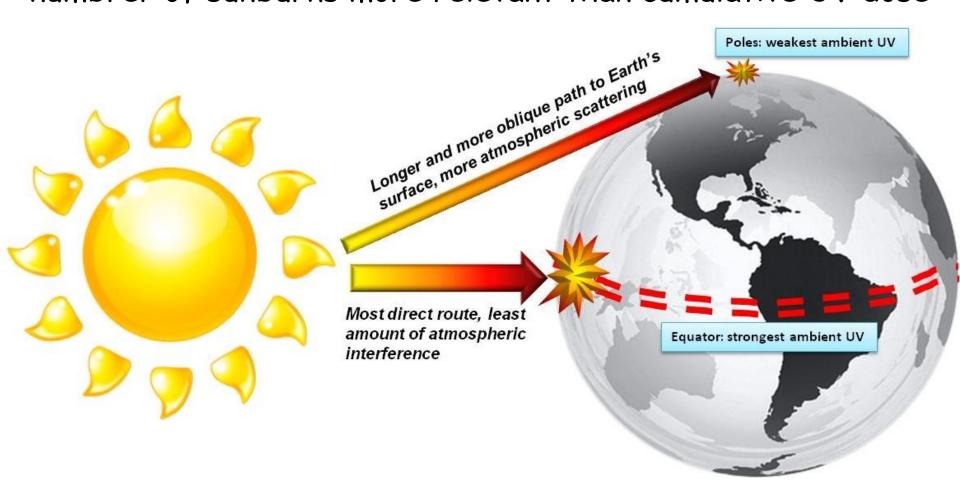
Susceptible phenotypes

Sunlight



Pre-existing melanocytic naevi

the incidence and mortality increase with decreasing latitude numbrer of sunburns more relevant than cumulative UV dose



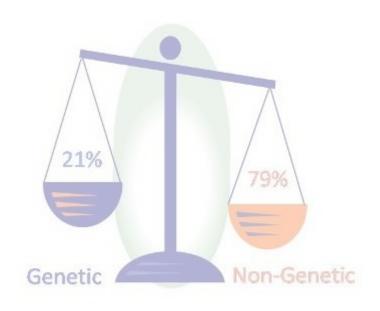
Strength of ambient UV varies with geographic location

Causative agents

Susceptibility genes

Susceptible phenotypes

Sunlight



Pre-existing melanocytic naevi



in 30% of melanomas is pre-existing naevus

the risk is highest in those with atypical naevi, congenital or many banal melanocytic navi

Prevention

avoidance of excessive sun exposure and tanning booths sunscreen during outdoor activities

the sunscreen reapplied every 2 hours

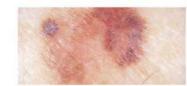
early diagnosis - publicity campaign, self examination



Asymmetry



Round and symmetrical



Asymmetrical

Borders



Regular and geometric



Irregular and jagged

Color



One Color



Several: light to dark

Diameter



Small: less than 6 mm



Big: greater than 6 mm

Evolution





Evolutive in its size, color or thickness





Step 4

Examine the

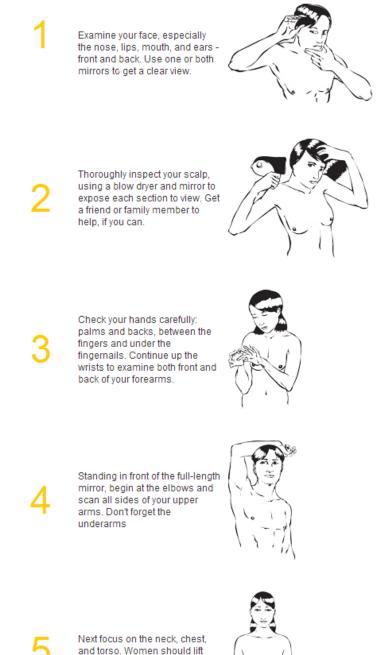
back of your neck

and scalp with a

hand mirror.







breasts to view the underside.



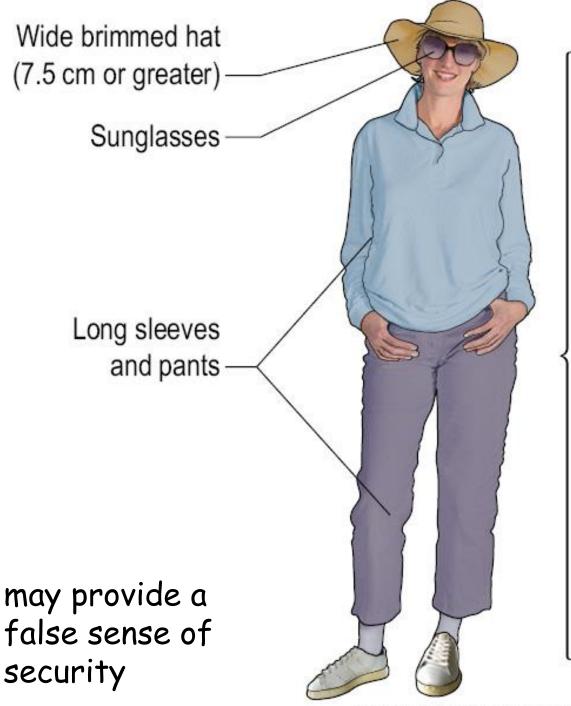


properly applied sun protective cream 20' before sunexposure



around 30 gr for whole body

1 tube/ monthly



Factors increasing sun protection of clothing

Increased tightness of fabric weave

Wearing dry clothing

Type of fabric (polyester > nylon, silk, wool > cotton, rayon)

Loose fitting items

Pre-washing

Chemical additives (e.g. optical whitening agents)

Clinical feature

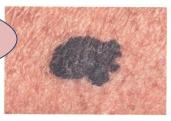
Lentigo maligna melanoma 10-20%

6. decade long-standing superficial phase





Superficial spreading melanoma 55%







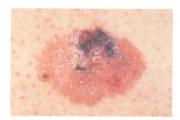
















Nodular melanoma 15%





5. and 6. decade often in males without preceding in situ phase (agressive)



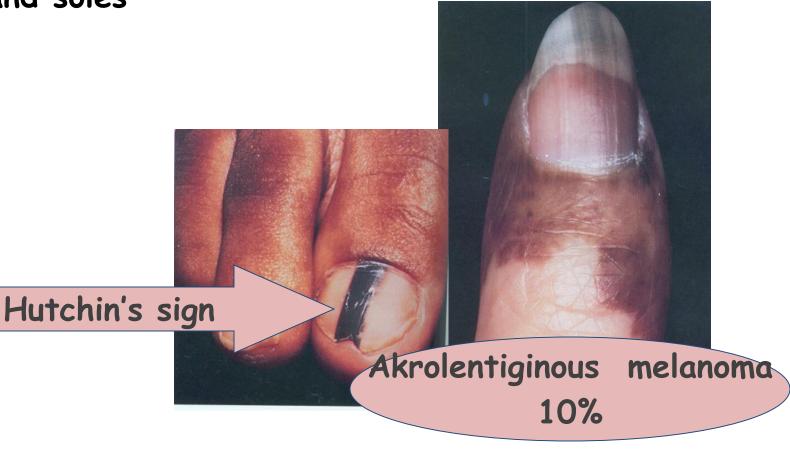


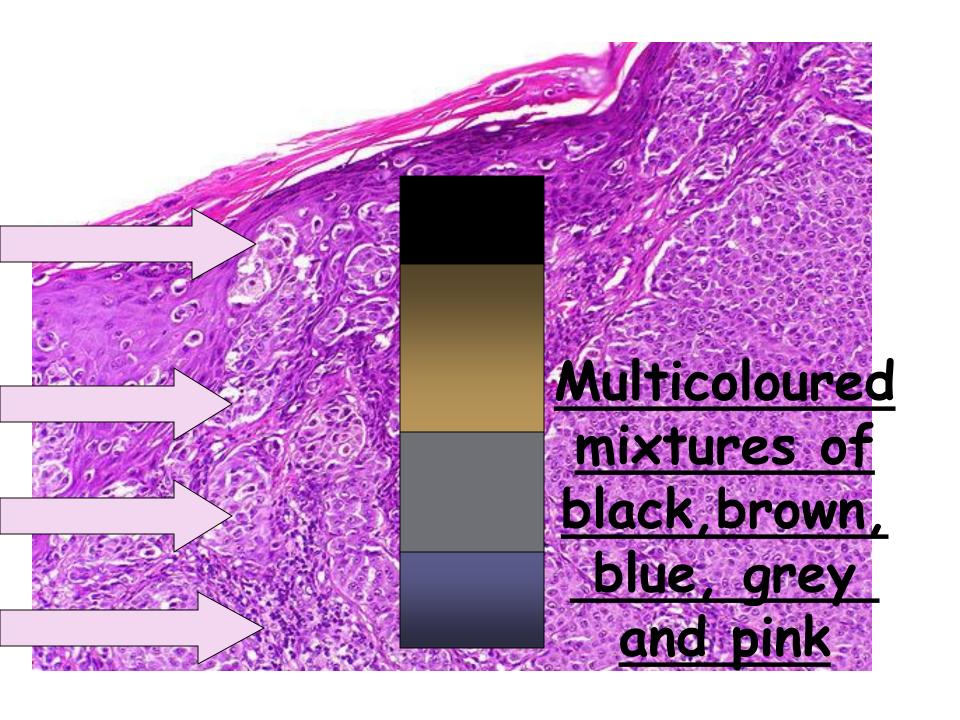
could be amelanotic





palms and soles mucosa





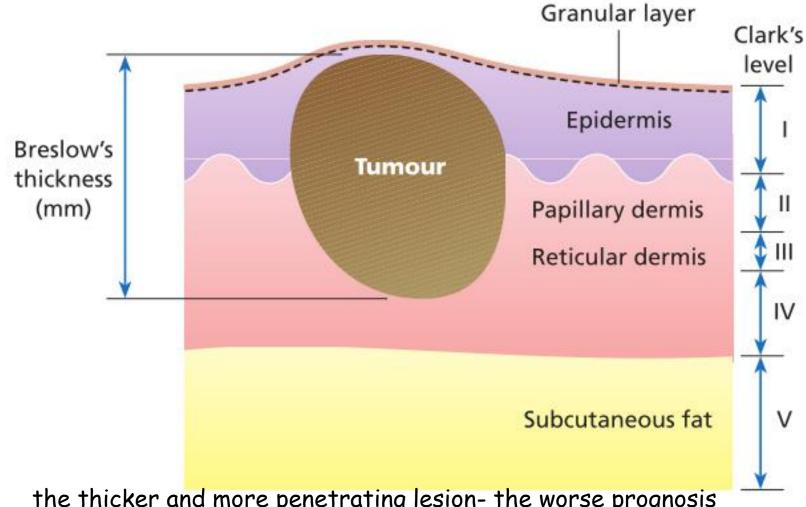
Staging EU and USA:

TNM stage	AJCC stage	Breslow thickness (mm)	5-year survival (%)
I	Ia	Up to 0.75	95
	Ib	0.76 - 1.5	85
II	IIa	1.51 - 4.0	65
III	IIb	>4.0	45
	III	Nodal disease	40
IV	IV	Metastatic disease	<10

AJCC, American Joint Committee on Cancer; TNM, tumour, node, metastasis.

the system provide a useful guide to prognosis

Breslow's and Clark's methods of microstaging



the thicker and more penetrating lesion- the worse prognosis

Prognostic indicators in melanoma

Indicator	Significance
Depth of primary tumour	Breslow
	<0.75 mm, 5-year survival 95%
	0.76–1.5 mm, 5-year survival 85%
	1.51–4.0 mm, 5-year survival 65%
	>4.0 mm, 5-year survival 45%
Sex	Females do better than males
Age	Prognosis worsens after 50 years of age, especially
	in males
Site	The prognosis is poor for tumours on trunk, upper
	arms, neck and scalp
Ulceration	Signifies a poor prognosis
Sentinel node	Prognosis worsens with tumour-positive sentinel node
Clinical stage	Prognosis worsens with advancing stage

surgery - 2-5 mm margin of clearance laterally and down biopsy do not provoke metastasis

if the histology confirms the diagnosis of melanoma



wider excision including wound of excision biopsy as soon as possible 0,5 cm clerance for melanoma in situ 1 cm clerance for all invasive melanoma (or 1 cm normal skin around for every mm of tumour thickness up to 3 cm -the maximum)

Sentinel lymphe node biopsy (SLNB)

the first and nearest lymphe node in the lymphatic drainage of the tumour

it is detected with radiolabelled colloid injected around tumour

often for tumours thicker than 1 mm, ulcerated $\,$ with numerous mitoses, signs of regression

may provide a false sense of security

Adjunctive therapies

melanoma specific antigen vaccines

INF-alpha contoversial

vermurafenib (for BRAF positive melanoma)

Chemotherapy

may be palliative in 25% of patients

decarbazine is often drug of choice

Follow up (screening for recurrence and metastases)

first two years 3-4x a year after 1-2x a year for whole life

regional nodes must be palpated chest X-rays 1x a year ultrasound of liver and lymph nodes complete blood examination with AST, ALT, GGT, LDH, S100

PET/CT and CT in invasive tumous

Follow up (screening for recurrence and metastases)

80% of recurrent and/or metastasic melanomas occur within 3 years of definitive surgery

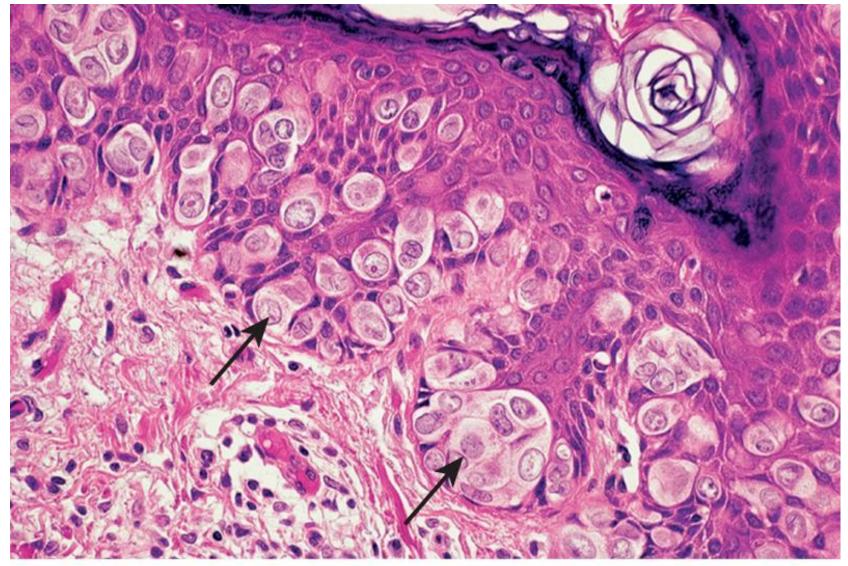
5-8% metastatic melanomas are discovered after 5 years



Paget's disease



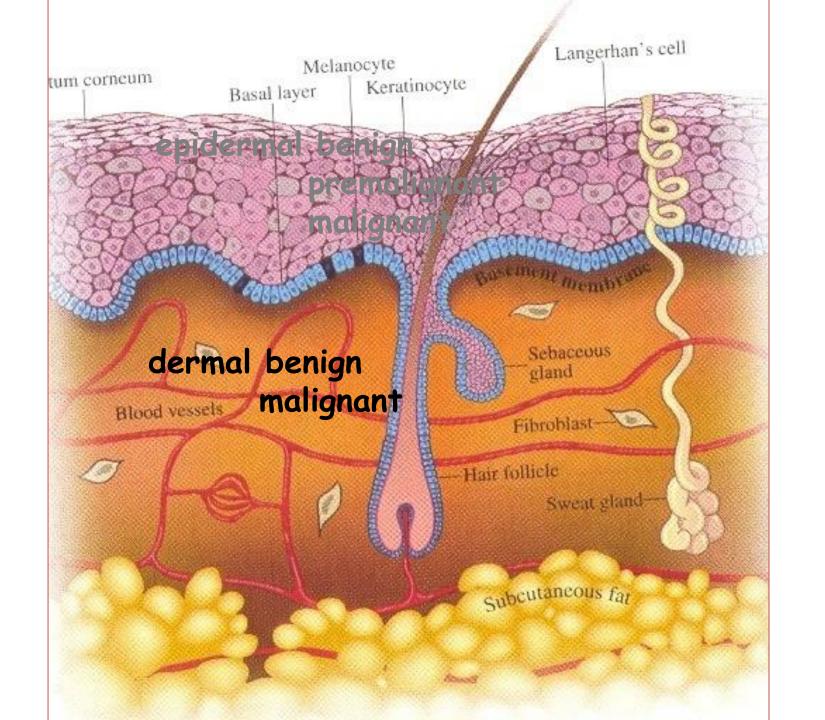
a well-defined red scaly plaque around nipple

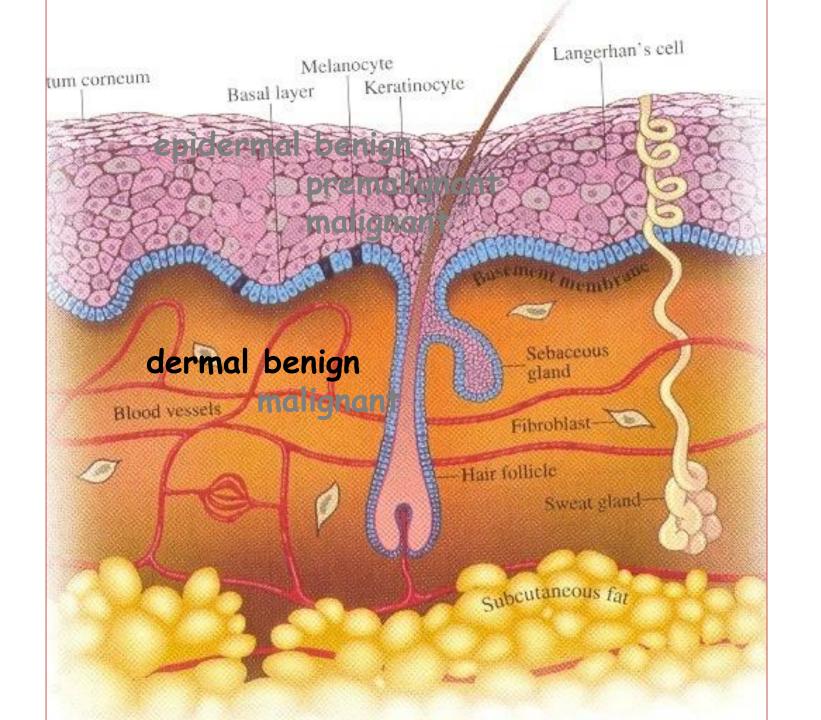


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invasion of the epidermis by cells from the underlying intraductal breast carcinoma (Paget cells)

Surgery





vascular lesion

other benign dermal tumours (dermatofibroma, keloid, lipomas)

vascular lesion

other benign dermal tumours (dermatofibroma, keloid, lipomas)

Developmental abnormalities of blood vessels

present at the birth or appear soon after

Malformations

Present at birth. Do not involute ('salmon' patch is exception)

- 1 Capillary ('salmon' patch and 'port-wine' stain)
- 2 Arterial
- 3 Venous
- 4 Combined

Haemangiomas sometimes called angiomatous naevi)

Usually appear after birth. More common in females, 50–60% on head and neck. Involute by 5–9 years after initial proliferation

- Superficial (capillary)
- 2 Deep (cavernous)
- 3 Mixed

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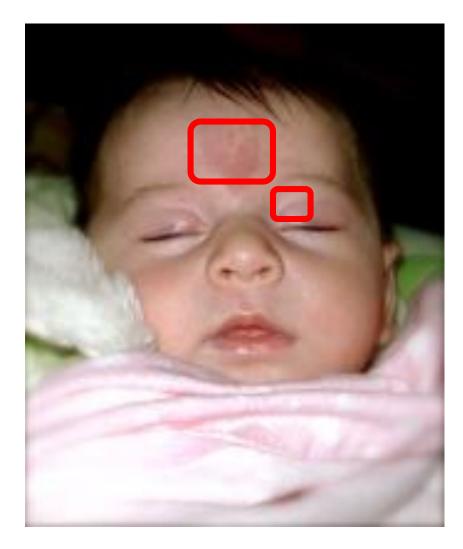
"Salmon" patches or "stork bites"

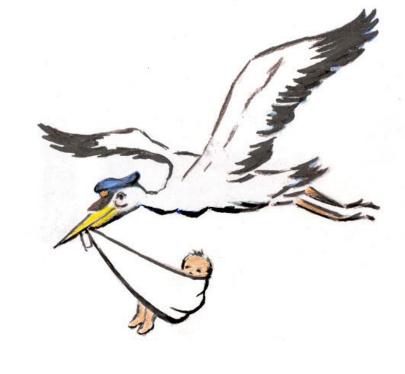


composed of capillary network in superficial dermis

in 50% of babies

nuchal region may remain unchanged





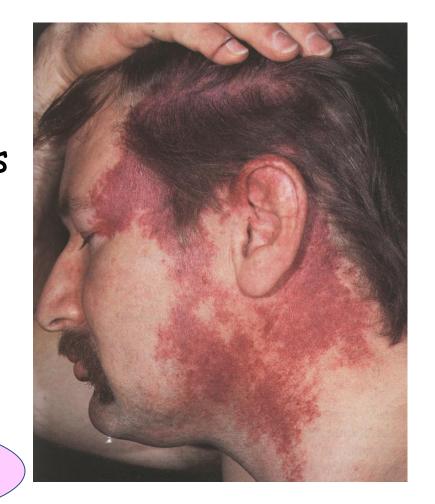
"salmon" patch

patches from other areas usually disappear within a year

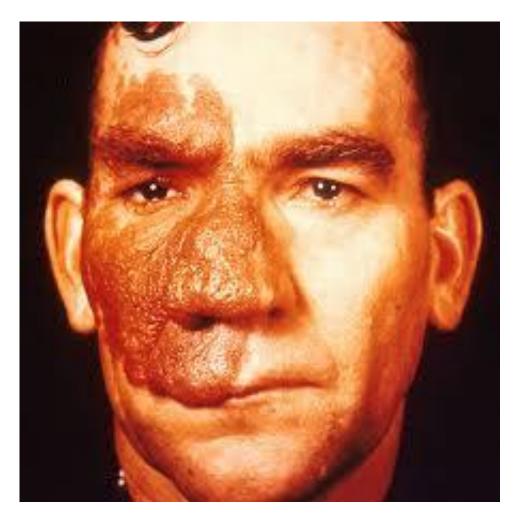
"Port-wine" stains (naevus flammeus)

present at the birth

dilated dermal capillaries persist in the middle age - angiomatous nodules



0,1-0,3% of infants



be careful of possible vascular malformations of leptomeninges of the trigeminal area

(epilepsy, hemiparesis, glucoma)

Treatment:

laser (pulsed dye laser) 40-50 pulses per session/monthly cosmetic camouflage

Combined vascular malformations of the limb



large port-wine stain overgrowth of all soft tissues with or without bony hypertrophy of that limb (Klippel-Trenaunay sy.)

Developmental abnormalities of blood vessels

present at the birth or appear soon after

Malformations

Present at birth. Do not involute ('salmon' patch is exception)

- 1 Capillary ('salmon' patch and 'port-wine' stain)
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- 4 Combined

Haemangiomas sometimes called angiomatous naevi) Usually appear after birth. More common in females, 50–60% on head and neck. Involute by 5–9 years after initial proliferation

- Superficial (capillary)
- 2 Deep (cavernous)
- 3 Mixed

Haemangiomas

superficial (capillary)





1-3% of infants

Haemangiomas

deep (cavernous) (strawberry naevus)





within few weeks of birth

spontaneous regression
with whitens centrally and
complete regression by the age of 5-9 years

Giant lesions consume lot of platelets - Kasabach-Merrit sy



Treatment: systemic corticosteroids in high doses (2-4 mg/kg/day) tapered to zero after 1 month

Cherry angiomas

middle-aged and elderly



Pyogenic granulomas

benign acquired haemangiomas
often in children and young adults
develop on sites of trauma

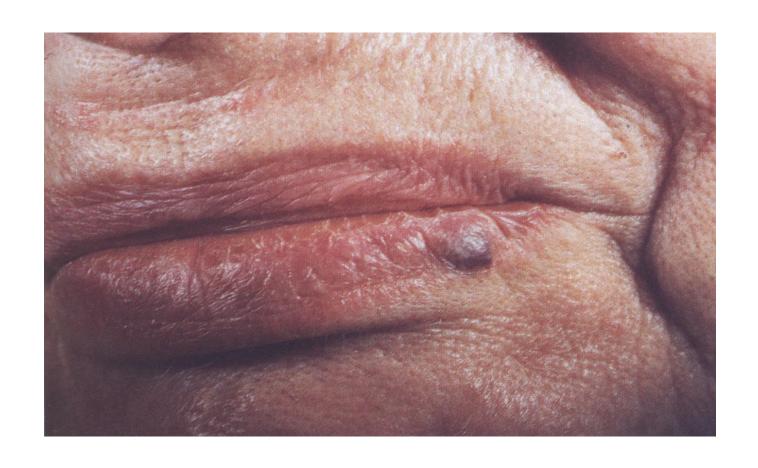
course of few weeks



differential diagnosis: amelanotic melanoma

Venous lake

venous haemangioma of lower lip in elderly



vascular lesion

other benign dermal tumours (dermatofibroma, keloid, lipomas)

Dermatofibroma



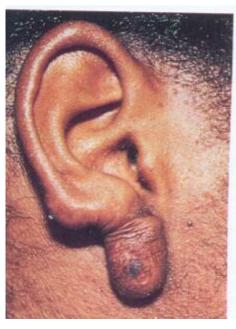
firm, solitary nodule often on the extremities they feel larger than they look

on squeezing dimple appear



Keloid





Treatment:

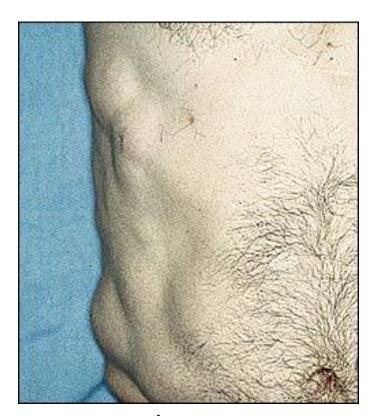
- silicone sheeting
- CS intralesional
- cryotherapy 20' before CS

overgrowth of dense fibrous tissue

arising in response to trauma, infection, foreign material

inherited tendency for development

Lipomas





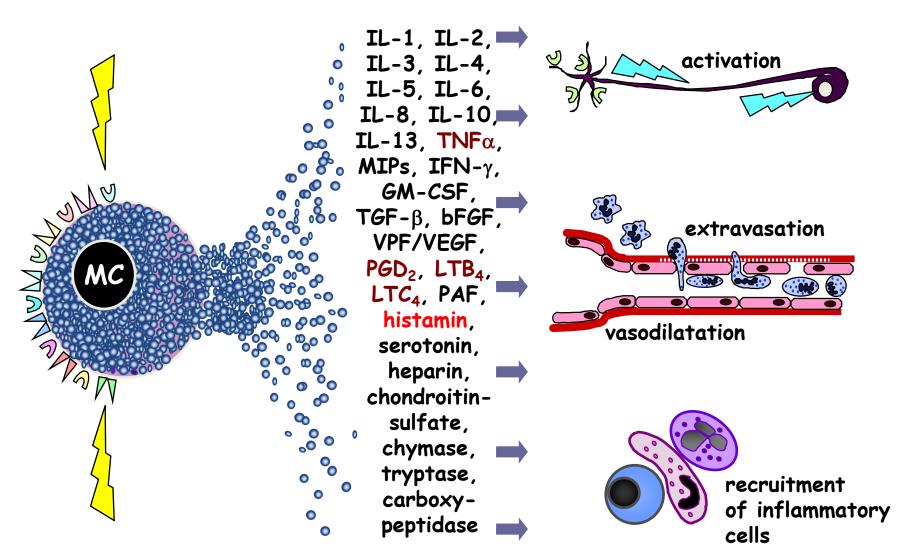
common benign tumours of mature fat cells soft rubbery consistency may be one or many proximal part of limbs

Mastocytosis (urticaria pigmentosa)

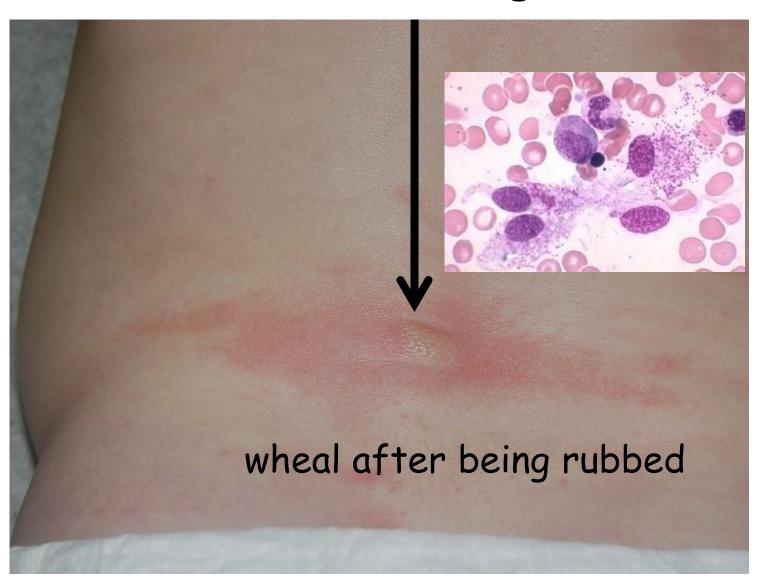
various conditions in which the skin and other tissues contains an excess of mast cells



Mastocyte



Positive Darier's sign





Darier's sign in mastocytosis

Main types:

Mastocytoma - solitary pink or brown itchy papule which wheals on rubbing



Juvenile mastocytosis - the most common type



no systemic involvement

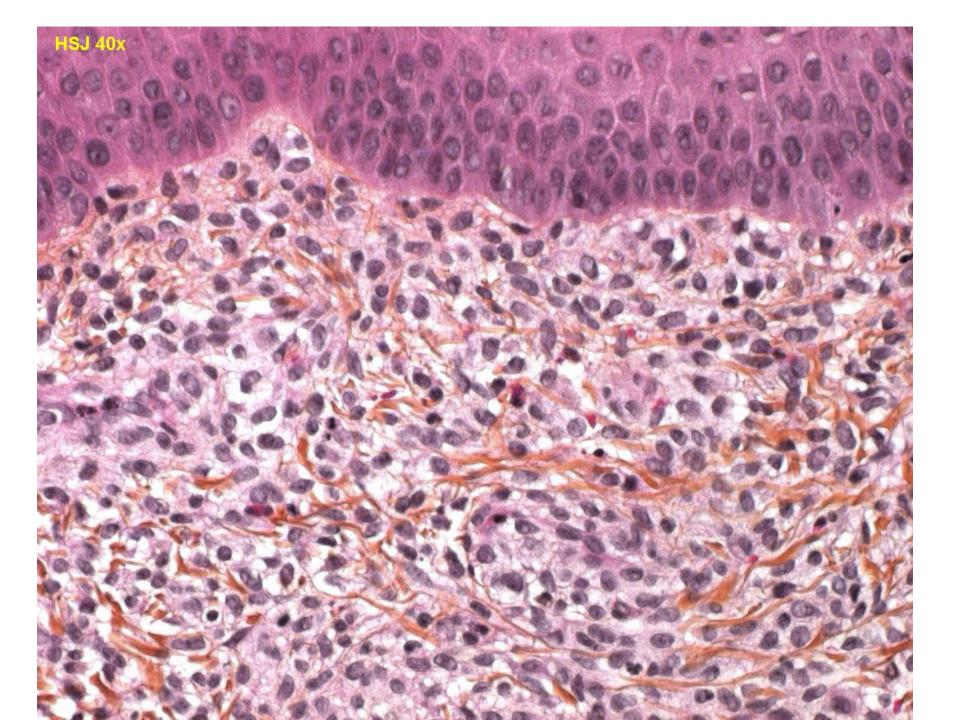
often mistaken for multiple naevi

Diffuse cutaneous mastocytosis - rare



persistent wheals that appear after minor friction

the bone marrow, liver and spleen may be involved



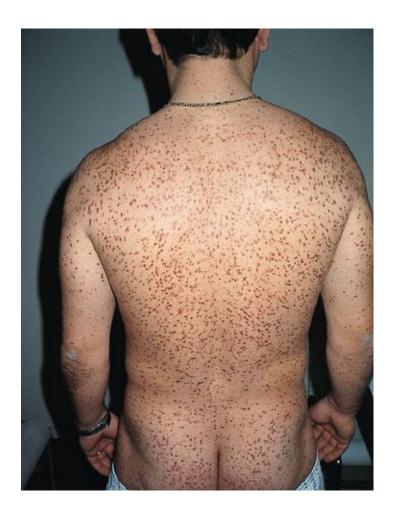
Diffuse cutaneous mastocytosis - rare



thickened appearance like pigskin

death from massive histamine release is a real risk

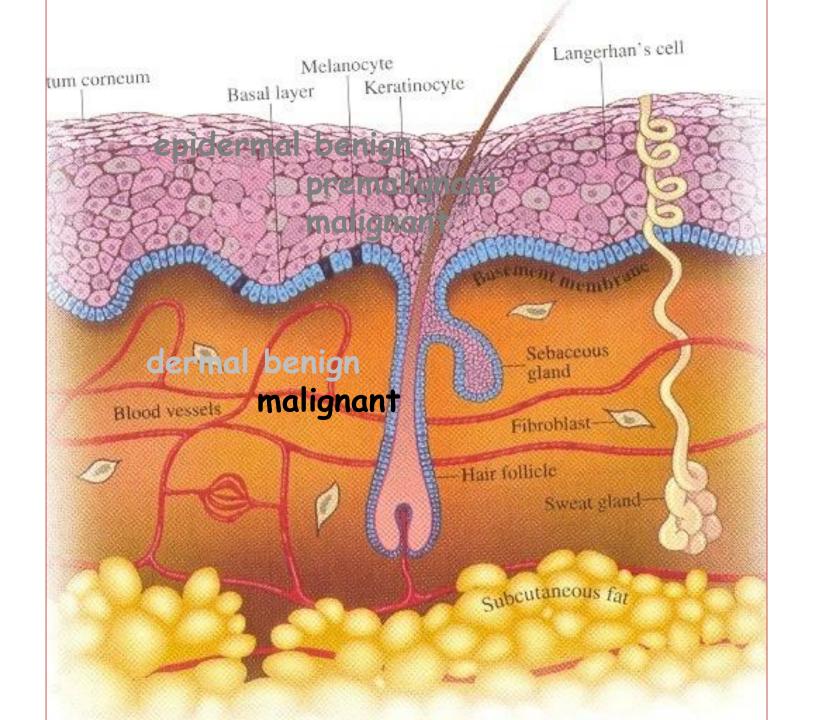
Adult type of mastocytosis - rare



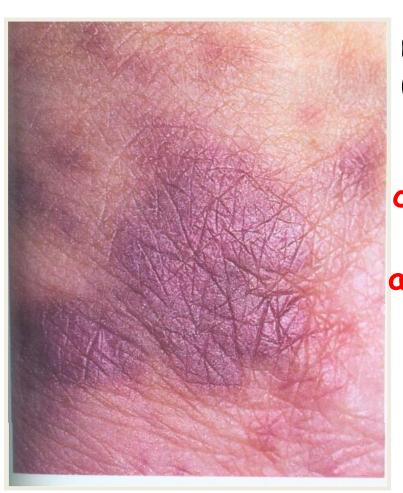
pink-brown teleangiectatic macules in early adult life

flushing headaches palpitations

the bone marrow, liver and spleen may be involved in 20%



Kaposi's sarcoma



malignant tumour of capillaries (HHV8 has been isolated)

classic type

associated with immunosuppression

Classical Kaposi's sarcoma



- -in Africans
- -in elderly Yews of European origin

feet, hands, legs (cold parts)

dark blue and purple macules progessing to tumours

slowly progressing

may metastize to lymph nodes life expectancy 5-9 years

Treatment:

sensitive to radiotherapy chemotherapy

Kaposi's sarcoma and immunosuppression





smaller and bruise-like lesions in tension lines evolve into nodules

associated with AIDS (HIV-1)

appear anywhere the most often upper trunk, head and neck

poor prognosis in HIV+ patients

life expectancy around 1 year

Treatment:

treatment of HIV infection with antiretroviral terapy

Lymphomas and leukaemias

Skin lymphomas

Kiels's classification Mb Hodgkin Non-Hodgkin's lymphoma

low malignancy

lymphocytic, imunocytic, centrocytic, centroblastic-centrocytic

high malignancy

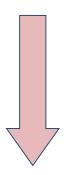
centroblastic, lymphoblastic lymphoma



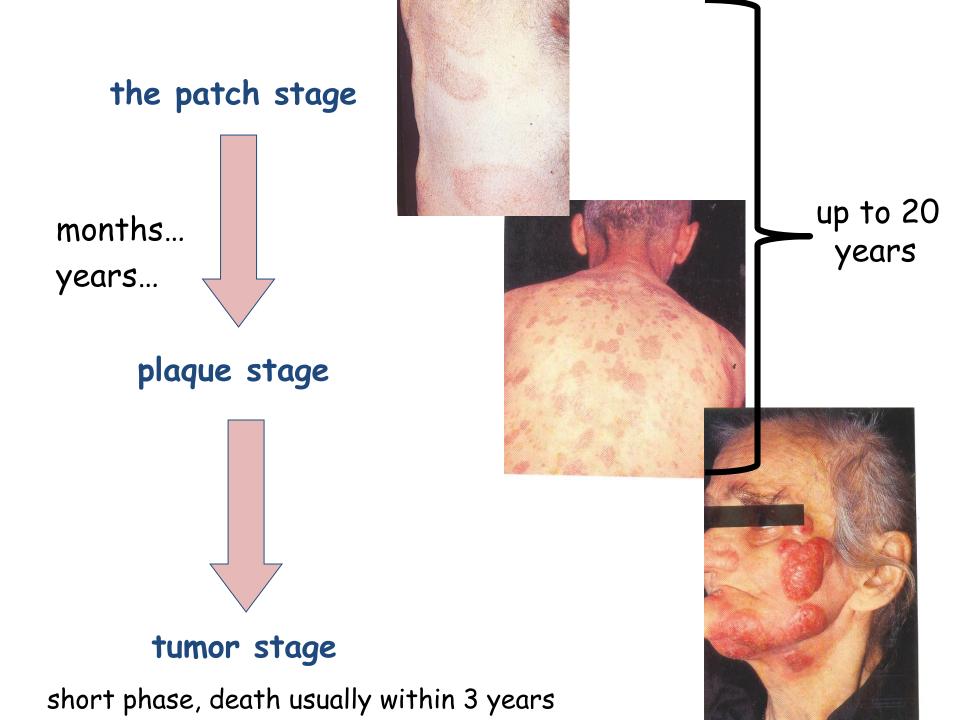
Mycosis fungoides - Cutaneous T-cell lymphoma

T-helper lymphocytes (CD4+) evolves slowly

starts in skin



affects lymph nodes and other tissues



Variants:

subcutaneous panniculitis-like T-cell lymphoma (similar to ulcerated LE panniculitis profundus)

anaplastic large cell CD30+ lymphomas

granulomatous slack skin (young patients, indurated plaques become atrophic)

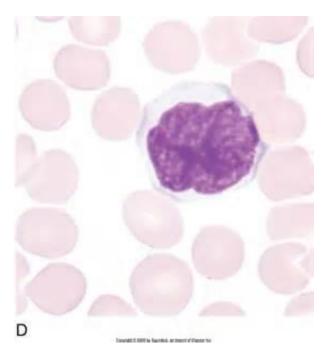
pagetoid reticulosis
(on acral parts of young patients, slow growing plaque)

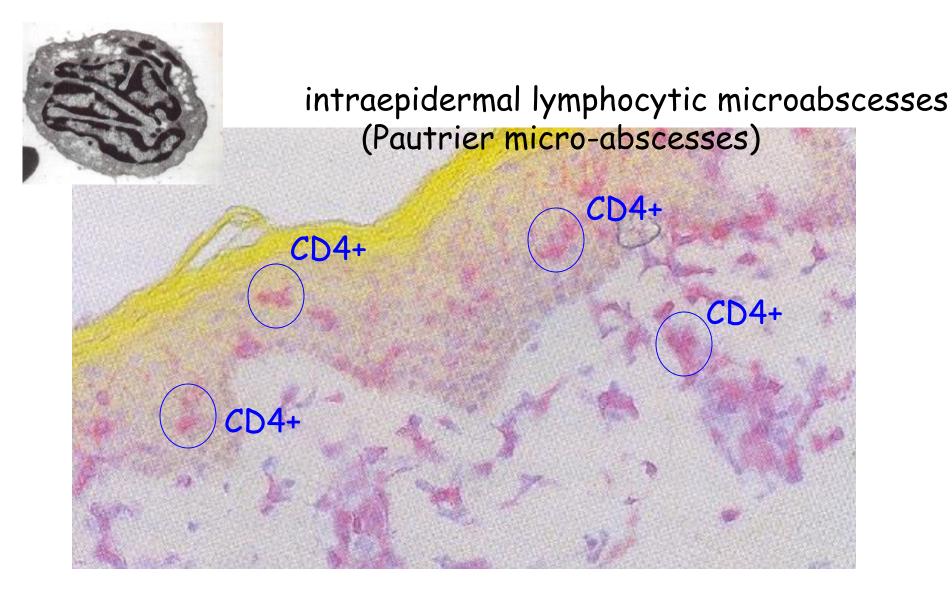
folliculatropic mycosis fungoides (itchy plaque with follicular prominence followed by alopecia)

Variants:

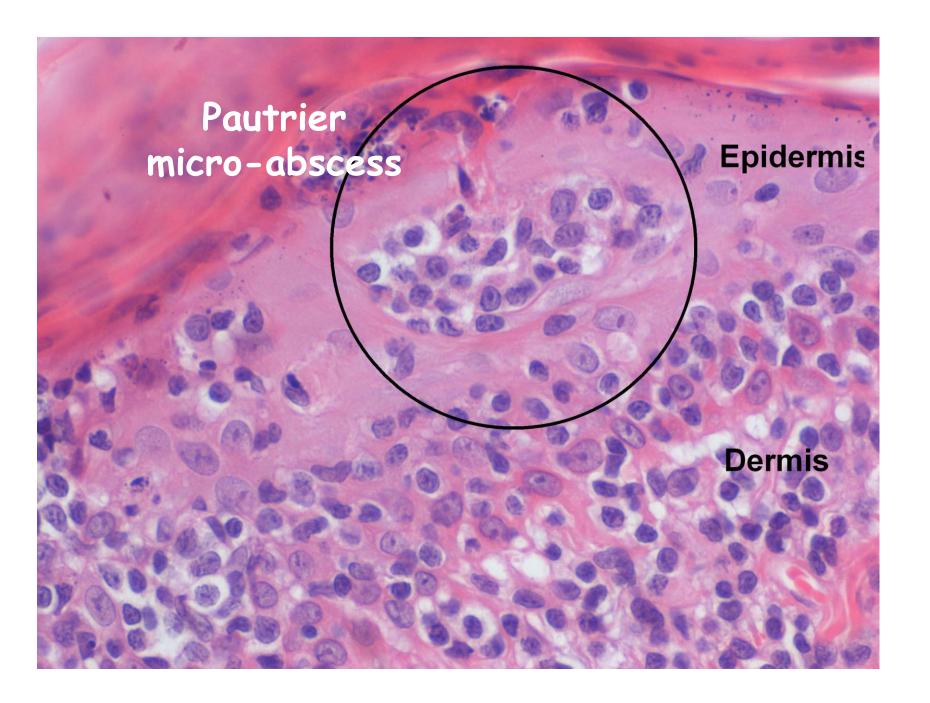
Sezary syndrome:

generalized erythroderma lymphadenopathy abnormal T lymphocytes with convoluted nuclei in the blood





Mycosis fungoides- immunohistochemical staining



The End

