

● A 35 year old woman presents with a long standing history of a skin pigmented lesion on her lower leg. However, recently she has noticed this to be larger & growing in size.

The lesion is itchy & has bled from the surface a few times.

DermaNIZ

DDx of pigmented skin lesion

≠ The color of pigmented skin lesions is due to

- melanin

- Blood

- Exogenous pigment (eg tattoo)

pigmented skin lesions

≠ most commonly → melanocytic

however, non-melanocytic lesions can also be pigmented especially in dark skinned individuals

* non-melanocytic lesions eg

① Keratinocytic lesions

② vascular

③ Reactive.

Melanocytic lesions	Keratinocytic	Vascular	Reactive
<ul style="list-style-type: none"> ① Benign melanocytic naevus ② Melanoma ** 	<ul style="list-style-type: none"> ① Seborrheic Keratosis ② Lentigo ③ Epidermal naevus (Becker naevus) ④ pigmented BCC ⑤ pigmented actinic keratosis ⑥ intra-epithelial carcinoma ⑦ pigmented squamous intraepithelial lesions of vulva, penis, anus ⑧ pigmented invasive SCC 	<ul style="list-style-type: none"> ① Trauma eg splinter Hx in nail ② purpura ③ Chancroid ④ Angiosarcoma ⑤ Angiosarcoma ⑥ Kaposi Sarcoma 	<ul style="list-style-type: none"> ① Dermatofibroma ② Dermatofibrosarcoma Protuberans ③ post-inflammatory pigmentation ④ others eg lichen planus

• Most fitting diagnosis in this case ↓

Malignant melanoma
 ~ arising from pre-existing naevus

≠ Malignant Melanoma

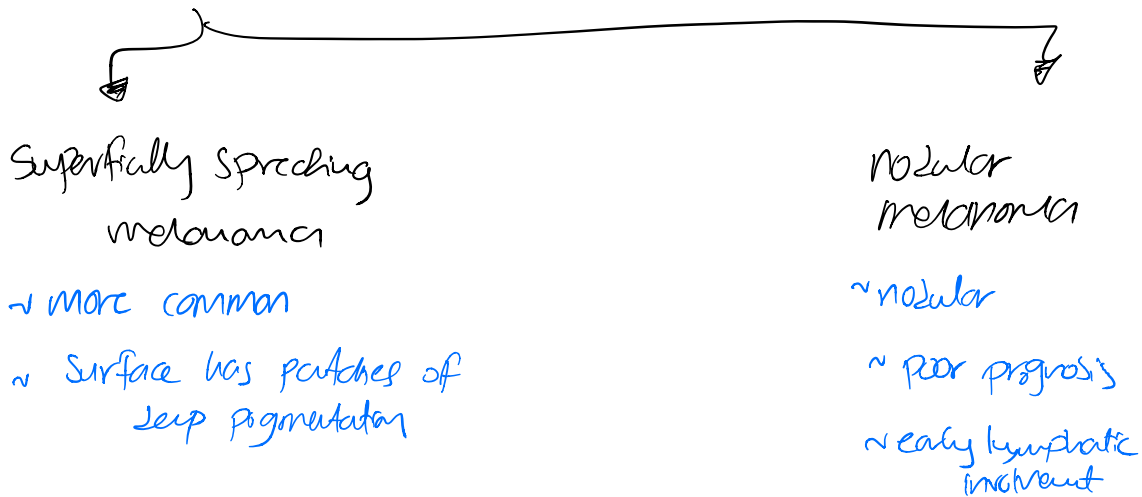
① Arise in pre-existing nevi (junctional or compound with junctional component)

*** ② In white people over sun-exposed areas
(High incidence in legs of fair skinned ladies)

③ Rare in dark-skinned people

④ Pre-malignant form → lentigo maligna

Presentation



• Other less common forms ↓

① lentigo maligna

② Acral melanoma

③ mucosal melanoma

④ Choroid melanoma

⑤ Amelanotic melanoma

Signs of malignant change in Melanoma

- ① increase or irregularity in size
- ② " " " in pigmentation
- ③ Bleeding or ulceration
- ④ Spreading of pigment from the edges of nevus.
- ⑤ itching or pain
- ⑥ formation of daughter or satellite nodules
- ⑦ Lymph node or distant spread.

Spread ↴

- ① local growth & ulceration
- ② Lymphatic permeation
- ③ By blood

• cutaneous nodules by progressive

Proximal spread

• Lymphatic emboli:
to regional LNs

generalized Skin Pignodules

Melanomas (late)

Staging ↴

~ the prognosis of MM depends mainly on the degree of invasion, which is determined by the depth of invasion

In Reference to normal skin layers
(Clark's level)

According to its measured depth
(Breslow depth)



Simpler & more accurate

TREATMENT OF PIGMENTED LESIONS

① Prophylactic Removal

* ⓐ of any nevi subjected to trauma (most commonly major malignant transformation) — including, Ucles, soles & genitalia.

ⓑ Removal for cosmetic reasons

ⓒ Removal if the patient is acutely anxious about their presence.

~ Remove the entirety of the lesion (not wide local excision)

~ Send for histopathology.

② Suspicious nevi

ⓐ nevi showing any signs of malignant transformation are removed for histopathological examination.

— if results came the far Malignant melanoma)

Wide local excision
with safe (free) margins
~ proportional to depth
(Breslow Depth)
+ skin grafting

1 centimeter
for every millimeter
of invasion

3] Sentinel Lymph Node.

① identifies through injection of vital blue dye around the primary melanoma & performing Pre-operative lymphoscintigraphy

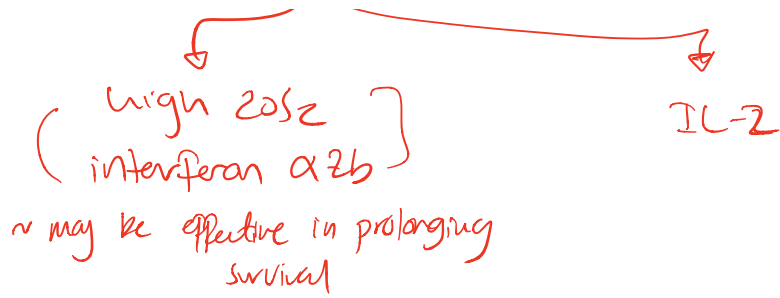
Regional LNs are removed by [Block Dissection]

↳ sent for histopathology
if the involvement

4] Adjuvant Therapy

① MM deposits regress following excision of the primary lesion suggesting an immunological component

↳ IMMUNOTHERAPY



- ⑤ MM are radioresistant
- ⑥ chemotherapy results are disappointing.

[FIVE YEAR SURVIVAL ACC. TO
BRESLOW DEPTH]

Depth

5-year survival

- < 0.75 mm
- $0.75 - 1.5$ mm
- $1.5 - 4.0$ mm
- > 4.0 mm

$> 95\%$
 90%
 70%
 $< 50\%$

} good prognosis
 < 1.5 mm

● PROGNOSIS

① Breslow depth — most important prognostic factor
 of primary lesion
 ~ measured vertically from granular layer to deepest point of tumor invasion.

② Type of lesion

~ superficial spreading better prognosis than penetrating melanoma.

③ The anatomical site

~ Tumors of trunk & scalp have a poor prognosis

④ Lymph Node metastases

~ carry poor prognosis, more so if there are uterine deposits

≠ presence of sentinel LN, or satellite lesion reduce the 5-year survival to < 30%. **



By Mohamed Tawfik Sheubesh - 1175

• References ↴

① Donna NTZ

② Lecture notes of General Surgery