PRINCIPLES OF LIGHTMICROSCOPY and it's USE in DERMATOLOGY

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This instrument epiluminescence is an microscope with 10 times magnification. When it is applied directly on skin lesions with the use of oil, it can be a great help to make a more accurate diagnosis, especially in the early diagnosis of malignanat melanoma, than clinical examintion.

The dermatoscopial criteria is based on these points of view.

Color

yellow

normal epidermis

yellow-brown

acanthosis

white-yellow

hyperkeratosis and pseudohorncystes

gray-brown,gray-black basal cell carcinom based on location of

melanin.

black

melanin in horny layer

light or dark brown

melanin in the epidermo-dermal junction

blue

melanin in the deeper dermis

2. Structural Elements:

pigment network structuress areas brown globuli black and brown dots radial extensions pseudohomcystes pseudofollikelvessals maple leaf structures steal blue areas

Withe an special algorytmus, we are able to make a differential diagnosis of pigmented skin lesions, but in fact there are a lot of skin lesions. which it is not easy to make a correct diagnosis. melanocytic skin disorder, by ABCD-rule and its score we can decide for the benign and malignant nature of lesion.

To have a better concept, all the above mentioned tema, will be presented with a seri of approprated dias.