

MELANOMA



Definition..

Is a type of skin cancer that occurs when melanocytes begin to grow uncontrollably

Functions of the skin

- >Physical protection of the skin
- >Thermoregulation
- >Vitamin D synthesis
- >Storage of fats



Stages of development

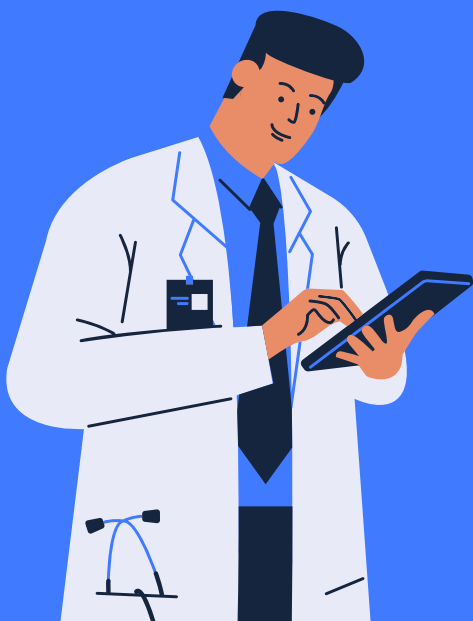


- 1.Melanoma cells are found on the outer skin surface and their presence is fairly negligible, not easy to spread through to other parts, also known as situ stage
- 2.The melanoma at this stage is very thin and can only be seen under the microscope as ulcerations. Depending on the thickness of the Melanoma, it can either be classified as 1A OR 1B
- 3.The melanoma at this stage is very thick and can easily travel through the epidermis and through the dermis
- 4.Melanoma has highly in motion and majorly travels to the lymphatic system, this the cancer is thick and can be observed as ulcerations . The classes here are A,B,C,D
- 5.The melanoma travels through the bloodstream to other major organs of the body.the classification of the melanoma here is based on the body organ that it has attacked:

- >M1a: Cancer has now travelled to surrounding areas of the skin and soft tissues
- >M1b: Cancer has reached the lungs
- >M1c: Cancer has spread to other parts that do not affect the CNS
- >M1d: Cancer has spread to the CNS



Diagnosis



The easiest and fastest way is to observe lumps, blemishes, spots on the skin that are changing in color and size .A biopsy exam can also help examine if the disease is melanoma.In advanced cases, a CT scan can be done to prove further



References

- Jaworek-Korjakowska, J., & Kleczek, P. (2018). Eskin: a study on the smartphone application for early detection of malignant melanoma. Wireless Communications and Mobile Computing, 2018.https://www.researchgate.net/publication/323624522_eSkin_Study_on_the_Smartphone_Application_for_Early_Detection_of_Malignant_Melanoma
- Lei, B. U., & Prow, T. W. (2019). A review of microsampling techniques and their social impact. Biomedical microdevices, 21(4), 1-30. https://www.researchgate.net/publication/335191357_A_review_of_microsampling_techniques_and_their_social_impact
- Negin, B. P., Riedel, E., Oliveria, S. A., Berwick, M., Coit, D. G., & Brady, M. S. (2003). Symptoms and signs of primary melanoma: important indicators of Breslow depth. Cancer, 98(2), 344-348.

