

Skin Cancer: Family history clinical decision support tool for risk assessment and management

Two (2) or more of the following family and personal history risk factors greatly (5x risk of general population) increase lifetime skin cancer risk (melanoma and non-melanoma):
A first-degree relative with melanoma
☐ 50-100 nevi
One (1) or more dyplastic nevi
Red or blond hair
☐ Tendency to freckle
Skin that burns easily and tans poorly or not at all
Management
 Counsel about skin self-examination and skin cancer prevention See 1/year by health care provider trained in screening for skin cancers
Any of the following family and personal history risk factors significantly (10x risk of general population) increase lifetime skin cancer risk (melanoma and non-melanoma):
Personal history of skin cancer
☐ Two (2) or more first-degree relatives with melanoma
On immunosuppressive therapy after organ transplantation
☐ More than 100 nevi
Radiation therapy for cancer as a child
 Management Total body skin examination by dermatologist or trained health care provider on yearly basis Counsel about skin self-examination and skin cancer prevention
About 1 in 10 individuals with a personal diagnosis of melanoma will have a family history of melanoma. This history could be attributed to similar exposures, skin type etc. and/or an underlying genetic etiology. Individuals are at increased risk to carry a (likely) pathogenic variant in a melanoma gene (or another hereditary cancer gene) when there is a personal history of:
☐ Multiple melanomas (≥3)
Melanoma and a family history of melanoma and/or pancreas cancer
Melanoma diagnosed at a young age (<40y) and a family history of melanoma and/or pancreas cancer
Uveal melanoma



Management

Consider referral for genetic assessment and possible genetic testing.



References

Wernli KJ, Henrikson NB, Morrison CC, Nguyen M, Pocobelli G, Blasi PR. Screening for skin cancer in adults updated evidence report and systematic review for the US Preventive Services Task Force. (2016). JAMA. 316(4):436-447. Retrieved from: https://jamanetwork.com/journals/jama/fullarticle/2536642

Resource

Your local genetics expert

MiiSkin App

Get Skin Help.com

National Comprehensive Cancer Network Melanoma Patient Guide