



MELANOMA AND MELANOCYTIC NAEVI

SCHIZOPHRENIA AS POSSIBLE KEY FACTOR FOR MELANOMA DEVELOPMENT! ANALYSIS BASED ON A CLINICAL CASE!

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Background: Skin, nervous tissue, dopamine and melanoma share a common neuroectodermal origin. Hence, processes that modulate nervous tissue formation, patient mental status, motor regulation of individuals, and skin tumorigenesis are inextricably linked. Psycho-neuro-endocrine oncology (or dermato-oncology), i.e. P.N.E.O., is a new model or trend in medicine and science presented for the first time in the world literature by us, that aims to examine the relationship between the mental state, the hormones and the malignant transformation. Schizophrenia and Parkinson's disease are the two main patterns of disease where the main symptoms are related to dopamine levels in the human body. According to our analyses of the available literature, the amount of dopamine is related to the incidence of melanocytic or non-melanocytic cutaneous tumors in patients with central nervous system diseases and those affecting the motor function and coordination. Such patterns of interaction are extremely indicative of the elucidation of the ubiquitous hypothesis or statement: "My illness is on a mental basis, caused by stress ..."

Observation: We present a 44-year-old patient with untreated schizophrenia for approximately 25 years, associated with advanced acral localized melanoma. Schizophrenia is generally associated with a higher level of dopamine, which is also a key precursor to melanin synthesis. After a careful analysis of all literature on melanoma in patients with 1) treated and untreated schizophrenia, 2) those with untreated and untreated forms of Parkinson's disease, it would be logical to conclude that the high level of dopamine in the described patient groups is a risk factor for the development of melanoma.

Key message: The possible mechanisms for the occurrence of malignant melanoma within the so-called psycho/neuro/endocrine oncology (P.N.E.O.), as well as the effective methods of prevention, are under discussion.

