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PeriOrbital Hyperpigmentation's Relation to Neurology and Mental Health: Psychosis Accompanying Maladaptive Daydreaming, and its Treatment Methods

Objective:

To test the hypothesis of the relation between POH and mental health.

Methods:

We have studied the relationship between Psychosis accompanying MD and POH to a 17 years old female individual. We established some physical exercises to strengthen the eye and the eyelid muscles and to develop and construct new dopaminergic and excitatory neurotransmitters pathways in new neural networks; to enhance the effort of the visual cortex and the primary motor cortex to see the results if they would support the hypothesis. A 22-inquiries questionnaire was conducted on 22 participants about Maladaptive daydreaming accompanying mental health issues and Peri-Orbital Hyperpigmentation.

Results:

In brain stimulation, POH decreased which means the individual has developed new circuits participating the visual cortex neurons in them. The muscles strength increased increasing the eyes' plasticity in addition to increasing the plasticity/action potential of the frontal cortex. 68% of the individuals said they had POH which support the hypothesis' consistency. $p\text{-value} = .06$. $p < .10$.

Conclusion:


After analysis of the leading causes of POH and the experiment of the physical exercises and the ratio of confirming individuals with MD of having POH, we postulate that POH is related to mental illness due to insufficient effort on them that is caused by the low eyes activity and that frequently occur in Psychosis symptom (according to the 17 yo female individual), or any other mental disorder.

Discussion:

The excess amount of Dopamine may lead to the hyperpigmentation of the eyelids due to the synthesis of eumelanin from levodopa in eyelids due to the lack of neural effort (Dopamine neurotransmitter consumption). It is supposed that the presence of ROS molecules in the eyelids area is a reason for the occurrence of POH.

Biography

[Samar Khalifa](#) a clinical psychology student at Kafrelsheikh University in Egypt. She is interested in neuroscience field and plans to get my master in [neuroscience](#). She is a reviewer in many journal including Wiley and BMC journals. She is a Founder and co-president at Kafr Elsheikh Psychology Society. She is a contributing author at [AI NeuroCare Academy](#). She is a mentor at [Clarivate](#). She posted some scientific papers at research square and other papers are under submission. She also has a passion in art and music and writes songs.



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