

Rhino-orbital mucormycosis in an immunocompetent patient with no susceptibility following *P.VIVAX* malaria infection

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A young immunocompetent female presented with a 3- week history of painful swelling and outward protrusion of the right eye with complete loss of vision. She had a history of *P.vivax* malaria two weeks prior to her ocular symptoms. On ocular examination, there was proptosis, total ophthalmoplegia with loss of corneal sensations in the right eye. Hematological examination revealed normocytic normochromic anemia and thrombocytopenia. MRI was suggestive of right-sided pansinusitis and orbital cellulitis with right superior ophthalmic vein thrombosis and bulky cavernous sinus.

Nasal biopsy was negative for fungal culture. An emergency surgical debridement of all the sinuses was done with right orbital exenteration. Histopathology confirmed the diagnosis of mucormycosis and the patient improved post-operatively on systemic antifungals.

Such an association of mucormycosis with malaria infection is rarely reported in the literature and is hypothesized to be a result of immunosuppression caused by malaria. Also, emphasis is laid upon having a high index of suspicion for fungal infection in the setting of pansinusitis even if the risk factors are absent.

Biography

Sonali Prasad is a final year Postgraduate Student from Vardhaman Mahavir Medical College and Safdarjung Hospital, India. She has completed her MBBS from KMCH, India. She qualified MBBS with first class HONS in Ophthalmology. She has published more than 10 papers in reputed journals and has reviewed more than 8 papers for reputed journal as well. She currently has 3 ongoing research in the field of Ophthalmology.