

Ciliary body melanoma with Optic Nerve Invasion and unusual tumoral pattern growth - A rare case report

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The most common primary malignancy of the eye in white adults is the uveal melanoma. Frequently, uveal melanoma arises from choroid or iris. Ciliary body melanoma is a rare if not exceptional subtype of uveal melanoma. In this paper we will expose a case report about a multinodular growth pattern of a ciliary body melanoma with optic nerve invasion and an unusual tumour extraocular extension. The patient, age 80, presented with permanent atrial fibrillation and no other specific symptoms, the only inconvenience been a protrusion of the tumour outside the eye globe. After clinical and imaging re-evaluation, the patient was diagnosed with multiple hepatic and lung metastases. The patient was firstly diagnosed with a small ciliary melanoma 10 years ago but at that time, she refused surgical treatment.

After surgical excision, the specimen was sent for histopathological examination to the Department of Pathology of the Emergency University Hospital in Bucharest. Specimen samples were fixed with 10% buffered formalin and were processed by conventional histopathological methods using

paraffin embedding, sectioning and Hematoxylin–Eosin staining. We have also performed immunohistochemical tests. Light microscopy examination revealed a large-sized ciliary body melanoma consisting of heavily pigment spindle and epithelioid type cells (mixed cell type according to the modified Calendar classification). The posterior chamber of the eye was not affected but we observed multiple scattered malignant cells within the optic nerve, a very unusual feature. This type of ocular melanoma has a poor prognosis due to early metastases but in this case, we emphasize the long-lasting evolution and peculiar anterior growth pattern.

Speaker Biography

Florin-Vlad Ionita is student in the 4th year at the University of medicine and Pharmacy “Carol Davila”, Bucharest, Romania. As a student his activity was oriented in the neurosurgery domain but also in the other neurological fields. Starting with 2017 he is the scientific coordinator at the “Walter E. Dandy” Neurosurgical Club, Bucharest, Romania.

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