Retinoblastoma tumour cells in central retinal vessels

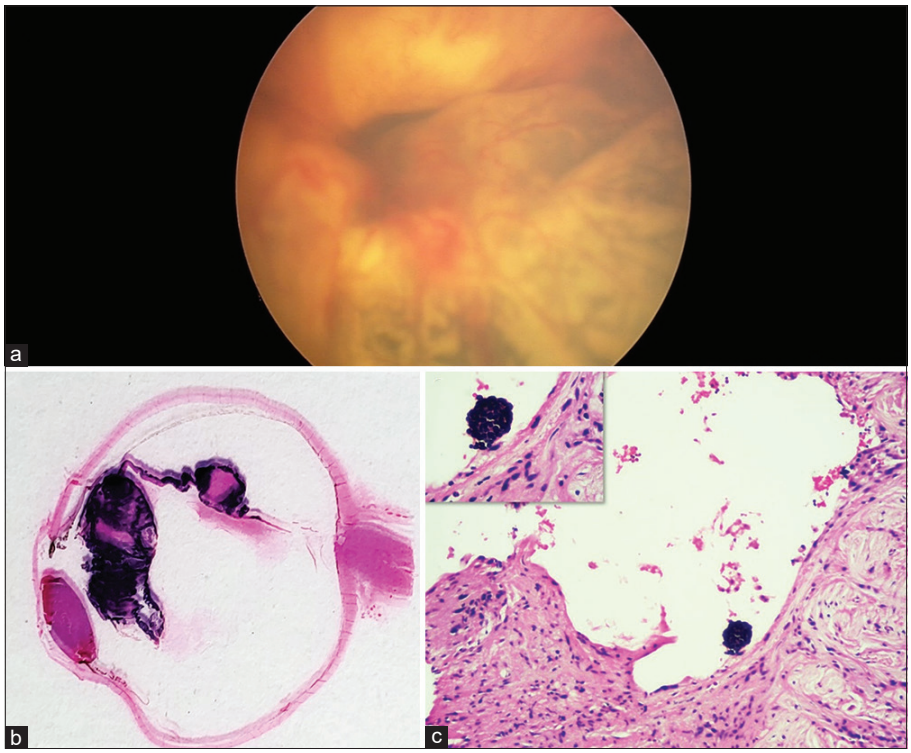

Figure 1: (a) Fundus photo of the left eye showing a retrolental exudative retinal detachment. (b) Photomicrograph showing the full section of the eyeball along with the optic nerve. (c) Photomicrograph showing retinoblastoma tumor cells in clumps with a few red blood cells in the central retinal vessel. Hematoxylin and eosin stain. Magnification: 100×. (Inset: Magnified image [400×] of the same)

The left eye of an 11-year-old girl had iris neovascularization, neovascular glaucoma, and a retrolental exudative retinal detachment with a suspicious mass lesion in the fundus. A calcified lesion in the superonasal quadrant with closed funnel retinal detachment was seen on ultrasound and confirmed on MRI. The left eye was enucleated. Histopathology confirmed diffuse infiltrating retinoblastoma. A novel finding was the presence of clusters of tumor cells in the central retinal vessels [Fig. 1]. A 9-year follow-up showed no evidence of tumor recurrence or metastasis. We hypothesize that the clump of tumor cells did not have enough metastatic capacity to cause recurrence or metastasis.

Declaration of patient consent

The authors certify that they have obtained all appropriate patient consent forms. In the form the patient(s) has/have given his/her/their consent for his/her/their images and other clinical information to be reported in the journal. The patients understand that their names and initials will not be published and due efforts will be made to conceal their identity, but anonymity cannot be guaranteed.

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Conflicts of interest

There are no conflicts of interest.

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