Surgical management of complicated retinal detachment in a case of retinal hemangioblastoma

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Background: A 40-year-old male presented with a complaint of sudden onset diminution of vision in the left eye for 2 weeks. He was a follow-up case with retinal hemangioblastoma in both eyes. He underwent two sittings of fundus fluorescein angiography-guided trans-pupillary thermotherapy 2 years back. Since then, he was regularly followed up for 2 years with stable vision and stable retinal findings. At present, the best-corrected visual acuity (BCVA) in the right eye is 6/6, and in the left eye, it is counting fingers 2 meters. On fundus examination, he had one active hemangioblastoma in the right eye and total retinal detachment in the left eye with multiple active lesions. The right eye was treated with a single sitting of thermotherapy, and the left eye underwent pars plana vitrectomy and angioma excision, followed by silicone oil tamponade. The immediate and late post-operative periods were uneventful, with successful anatomical and functional outcomes. The left eye BCVA on late follow-up was 6/36, no further treatment was advised, and the patient was kept under follow-up and observed closely. **Purpose**: To educate regarding the systemic workup, diagnosis, and surgical management of complicated retinal detachment in retinal hemangioblastoma. **Synopsis**: Systemic workup, diagnosis, and surgical steps in the management of complicated retinal detachment in retinal hemangioblastoma were performed. **Highlights**: Close follow-up, keen observation, and prompt treatment in the early stages of the disease are indispensable to prevent untoward sequelae of retinal hemangioblastoma. A thorough systemic workup is necessary to diagnose the systemic involvements early. Surgery, if indicated for the retinal hemangioblastoma or its associated sequelae, should be performed diligently and with careful handling of blood vessels and anomalous tissues. **Online Video Link:** https://youtu.be/CkoqWEnaPB8

Key words: Complicated retinal detachment, retinal hemangioblastoma, Von Hippel Lindau syndrome

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