MULTIPLE RETINAL HEMANGIOBLASTOMAS IN VON HIPPEL LINDAU DISEASE: CASE REPORT USING WIDE FIELD ANGIOGRAPHY

HIDEKI BARBOSA HIROTA¹ ÍCARO AUGUSTO GODINHO¹ PATRICIA BORTOLAI¹ ARNALDO FURMAN BORDON²

HOSPITAL OFTALMOLÓGICO DE SOROCABA

1. FELLOW OF THE RETINA AND VITREOUS SERVICE 2. HEAD OF THE RETINA AND VITREOUS SERVICE

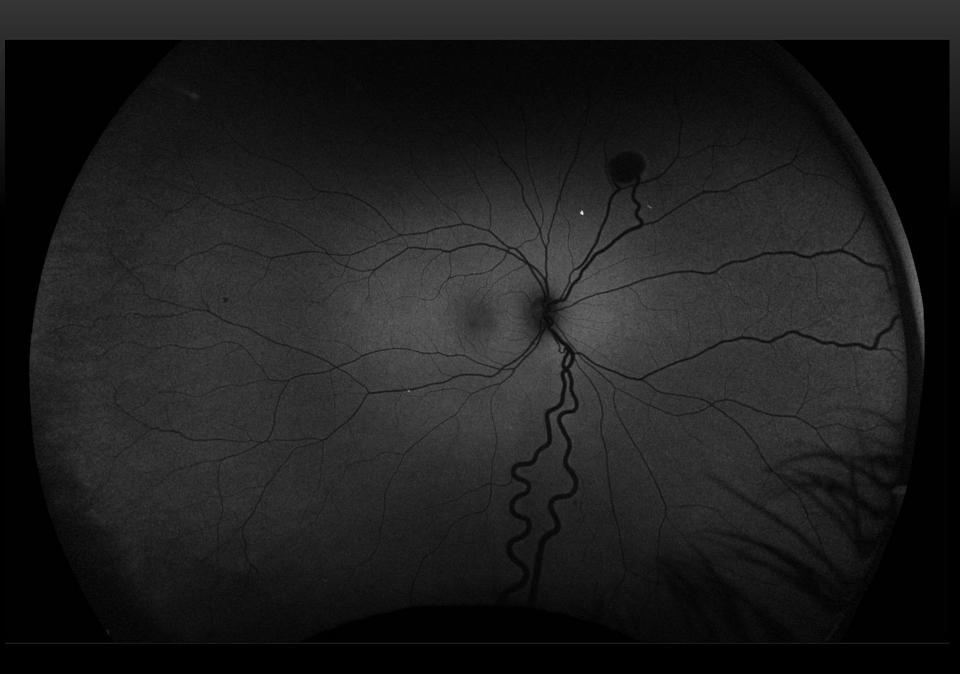
06/25/19

- 22-years-old, white, female
- CC: Patient referred by neurologist for ophthalmology evaluation. Asymptomatic.
- PMx: systemic disease diagnosed 1 year ago
- POx: none
- FMx: sister with the same disease

	OD	OS
BCVA	20/20	20/20
BIO	Clear cornea; quiet AC ; clear lens	Clear cornea; quiet AC ; clear lens
IOP	14	14
FUNDUS	Photos	Photos









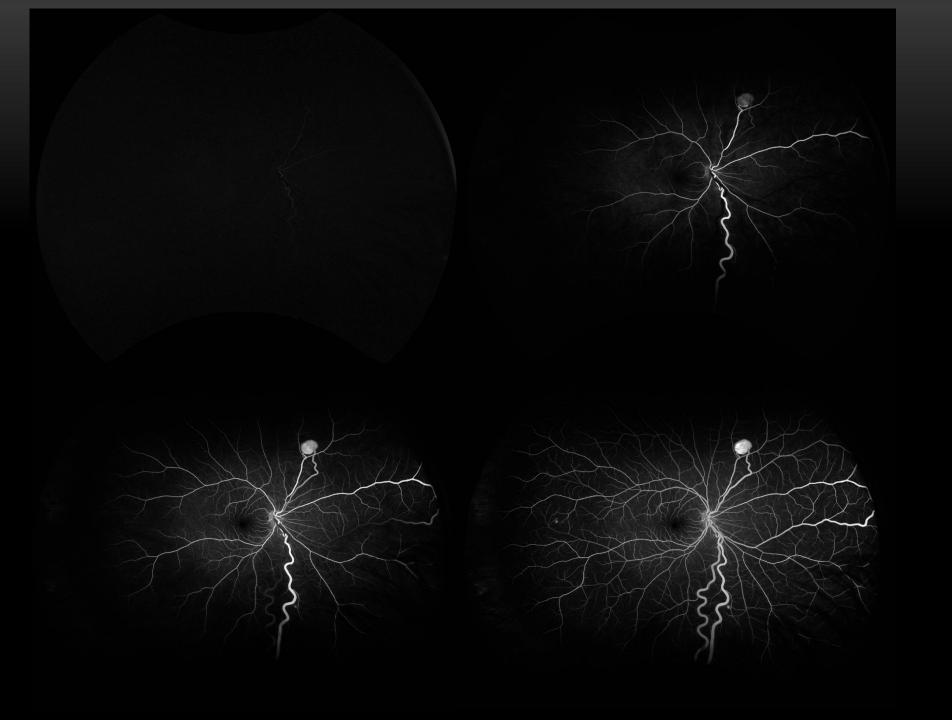


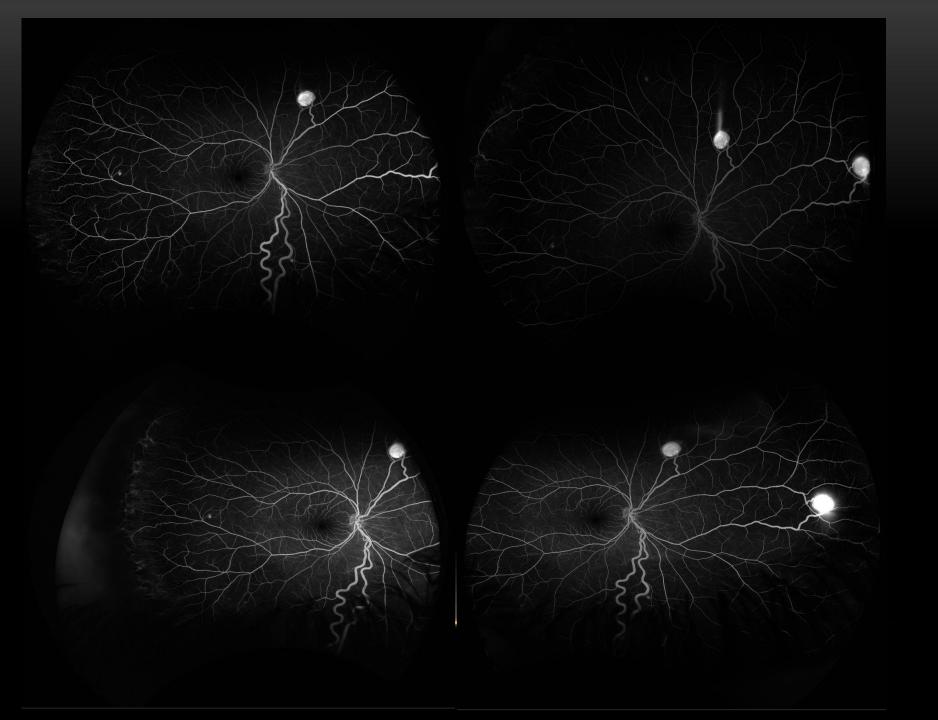


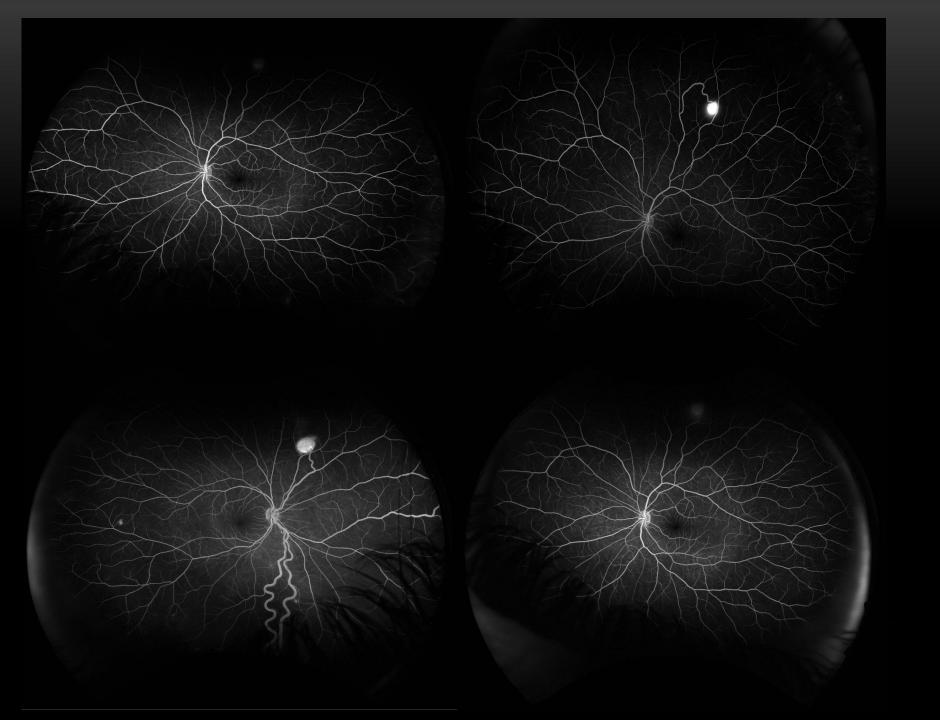


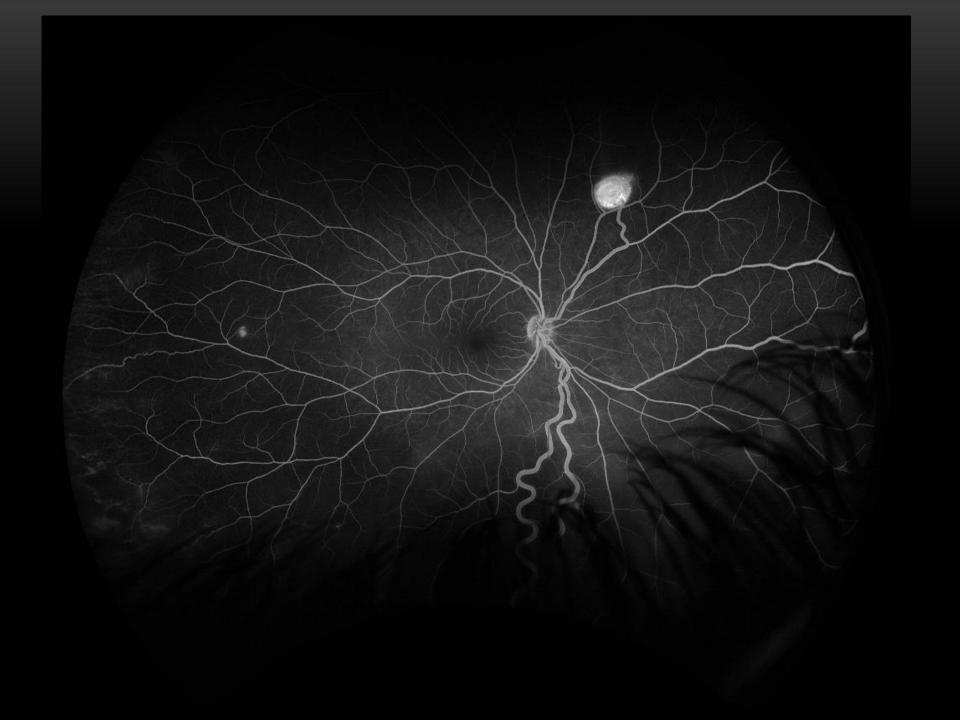


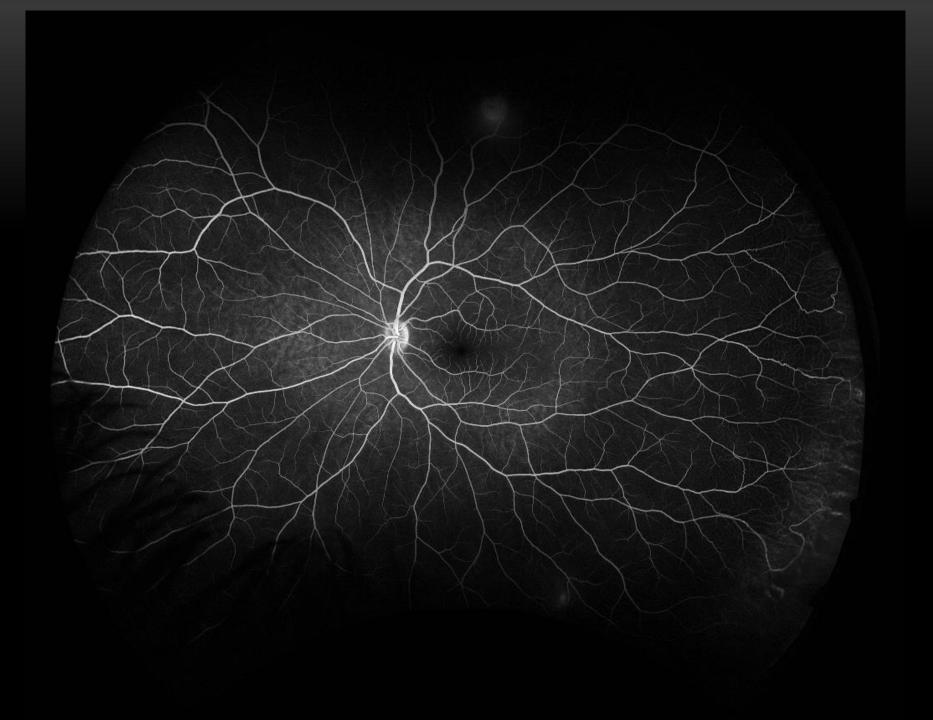


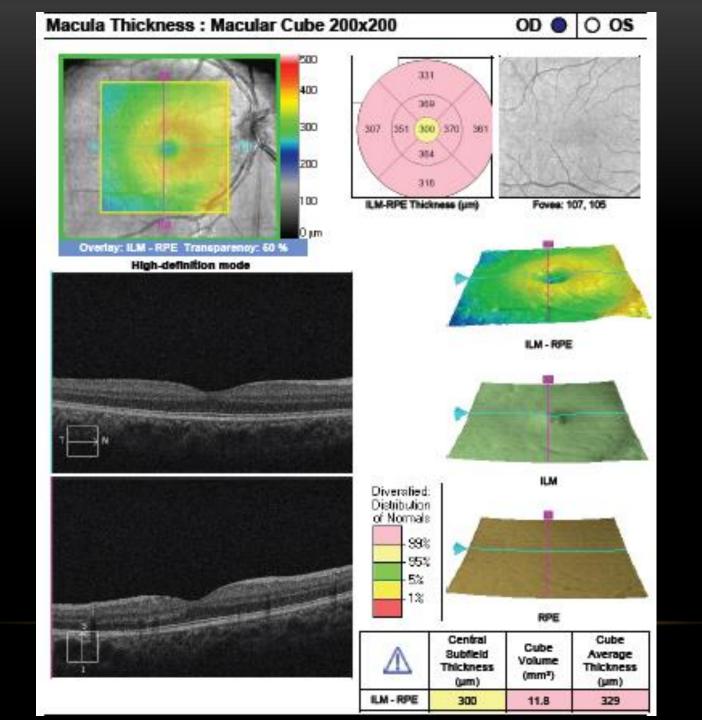


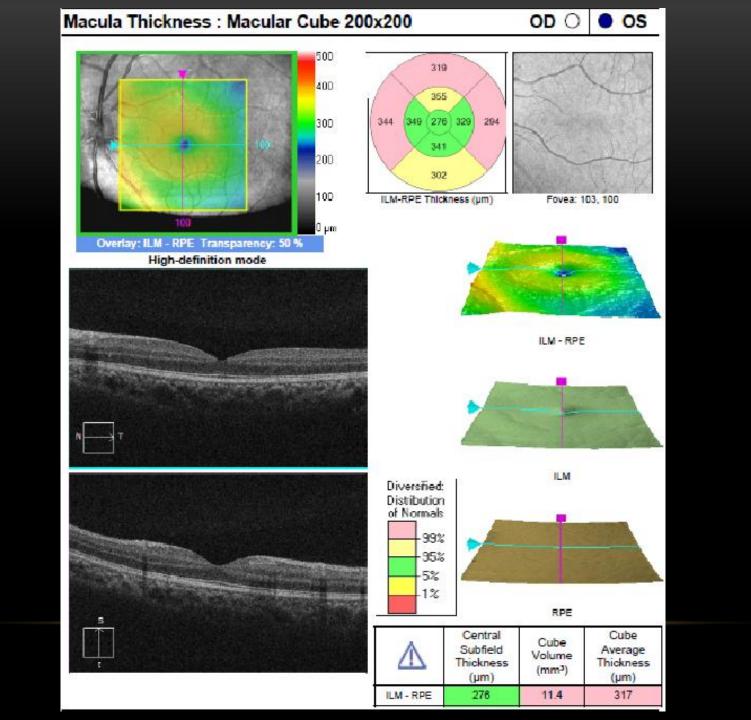






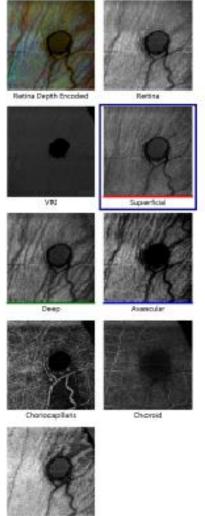


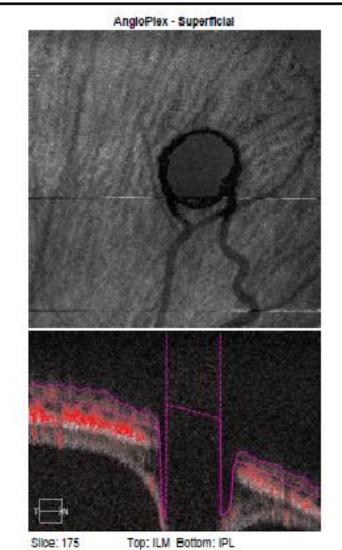




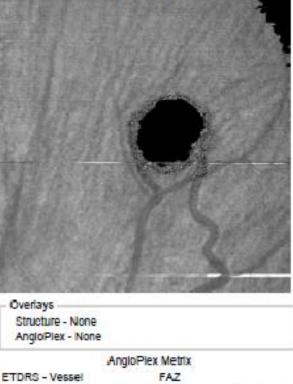
Angiography Analysis : Angiography 6x6 mm







Structure - Superficial

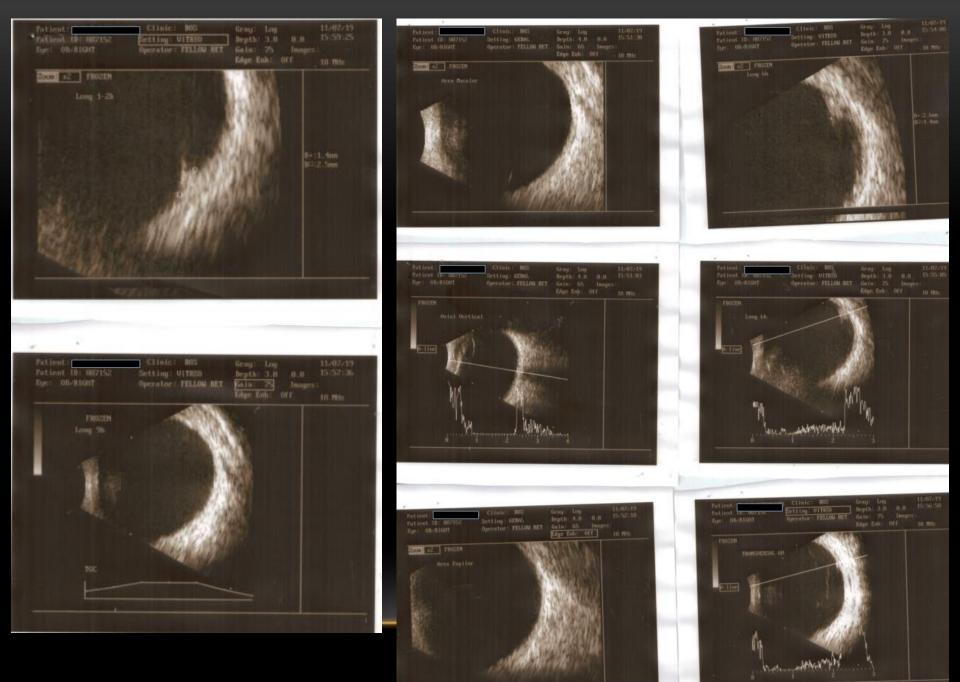


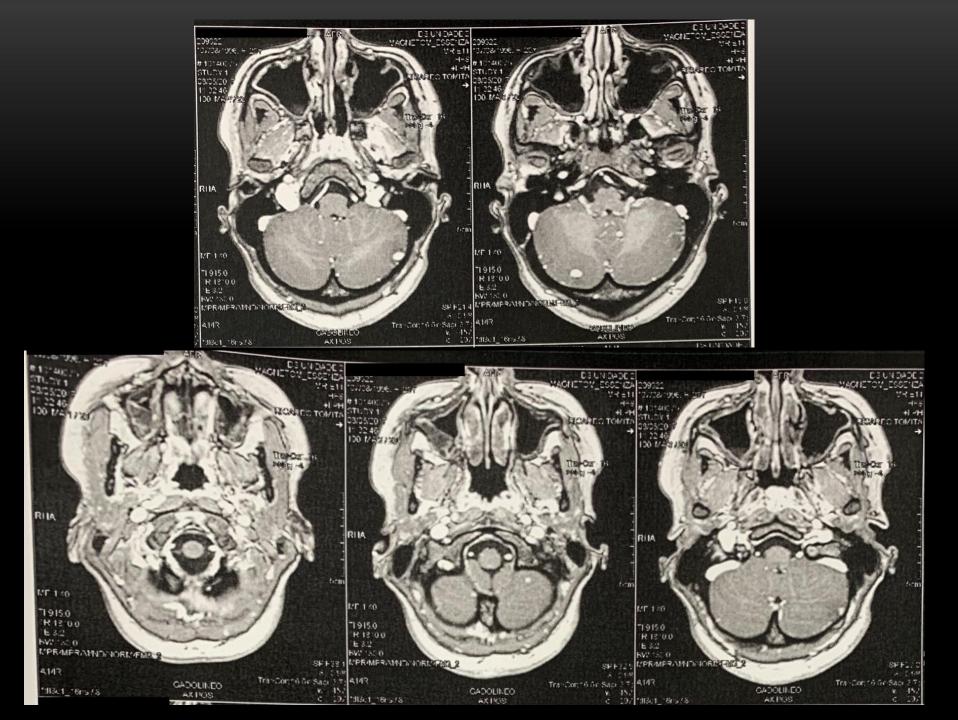
	Region	Densit
۵.	Central	0.0 mm-4
۲	Inner	12.5 mm-4
õ	Outer	17.8 mm-4
ō	Ful	16.0 mm-4

FAZ	
Area	0.06 mm ²
Perimeter	0.88 mm
Circularit	0.76

Curtom (Global)

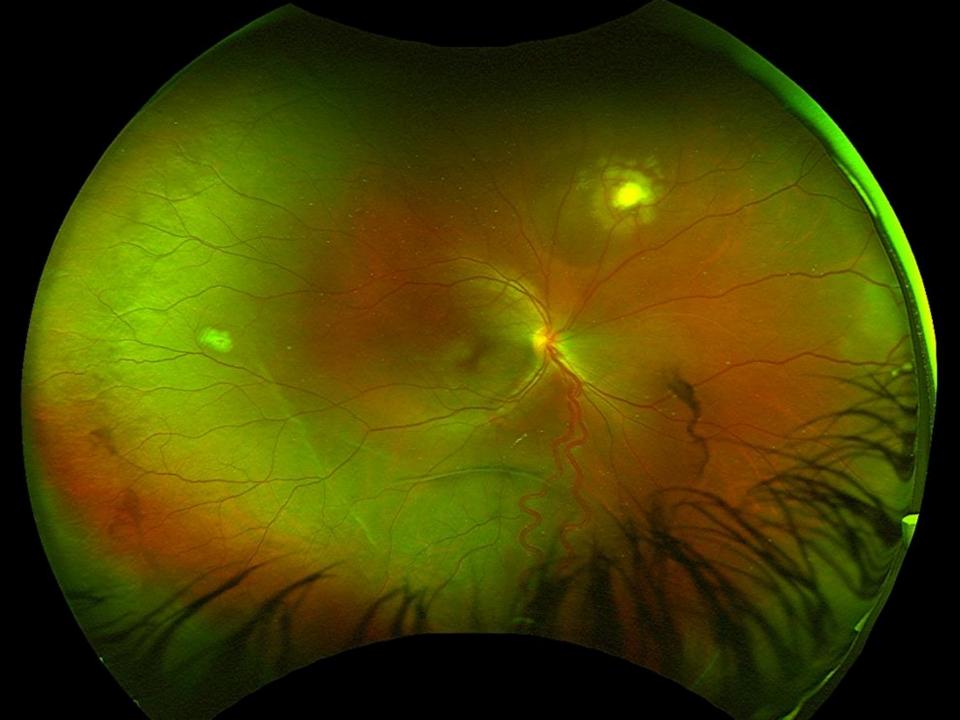
Tracked during scan

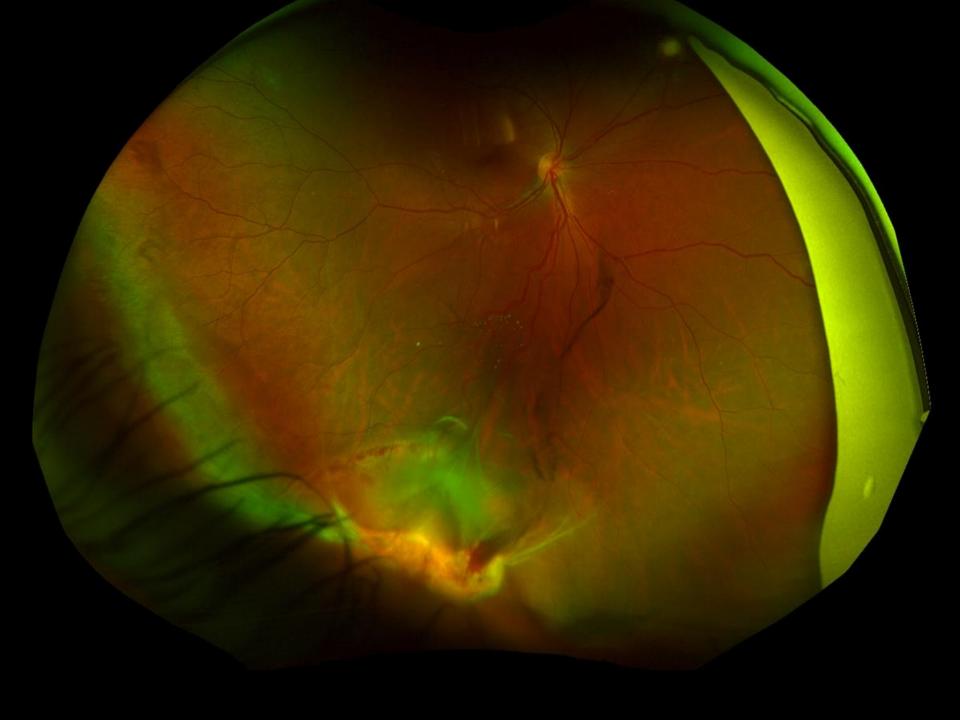




TREATMENT

- Laser photocoagulation (small lesions OD and OS)
- Cryotherapy: double freeze-thaw method (6h lesion OD)







MANAGEMENT

- Recognition and diagnosis of VHL disease when present, with appropriate referral for comprehensive care, ideally to a multispecialty team familiar with this complex and potentially lethal systemic condition
- Ocular surveillance for individuals with VHL disease, through regular ophthalmic evaluation, to identify and offer timely treatment for new or active RH as early as possible
- Ablative treatment of RH that can be safely destroyed, to lower risk of vision loss from progressive growth, exudation, and scarring
- Observation or consideration of nonablative treatments for RH that cannot be safely destroyed (such as those growing in proximity to the optic disk and fovea)
- Observation of asymptomatic retinal vascular proliferation, with consideration of vitrectomy for lesions exerting macular traction and consequent effects on vision

REFERENCES

- RYAN SJ.: Capillary hemangioma of the retina and von Hippel-Lindau diease. In : Hinz BJ, Schachat AP, eds. *Retina*, 4th ed. Mosby: Elsevier Inc., 2006; v. 1. chap. 24.
- Dollfus H, Massin P, Taupin P, Nemeth C, Amara S, Giraud S, et al. Retinal hemangioblastoma in von Hippel-Lindau disease: A clinical and molecular study. Invest Ophthalmol Vis Sci. 2002; 43(9):3067-74.
- Singh AD, Nouri M, Shields CL, Shields JA, Smith AF. Retinal capillary hemangioma. A comparison of sporadic cases and cases associated with von Hippel-Lindal disease. Ophthalmology. 2001; 108(10):1907-11.
- Aumiller MS. Juxtapapillary hemangioma: a case report and review of clinical features and management of von Hippel- Lindau disease. Optometry. 2005;76(8):442-9.
- Tumours of the uvea and retina. In: Kanski, Jack J. Clinical ophthalmology. A systemic approach. Oxford;1993.
- Barreira IMA, Bordon AF, Tavano V, Uno F, Guia T. Hemangioma capilar da retina associado a descolamento de retina. Relato de caso. Arq Bras Oftalmol. 1999;62(3):320-4.

THANK YOU