## More Than Meets the Eye: Acute Presentation of BRYO During Initial Scleral Lens Fitting The University of Alabama at Birmingham **Butts, Martha** Ladnier, OD 1189380 Cornea and Contact Lens Resident 11/10/1953 DOB: **Exam Time:** Serial Number: Technician: Oper Back ground Treatment and Management Retinal Findings Signal Strength: 5/10 Brawharetirka vrinickhriess BOV) Macutari Oube 512x128 at one of the branches of the central retinal vein. The A dilated fundus examination was performed revealing a suspected BRVO. Images were taken for prevalence is estimated to be between 0.5% and 1.2%. documentation and a macular OCT was performed. OS ILM-RPE Thickness Map In 99.9% o retinal The patient was referred to a retinal specialist the same 500 veins arise day for evaluation and was dismissed from further ie to 400 Fundus Photo care. Three and a half weeks later, the patient was compressio rosis, conditions diagnostically fit into a new brand of scleral lenses. 300 diabetes me Initial scleral lenses were dispensed at the next common ca appointment with improved comfort and vision. The re typically 200 Expected v patient returned to clinic for a scleral lens check three 20/50-20/6 weeks later, and a new set of lenses were ordered with minor central clearance changes. The patient has had no recurrences of BRVO symptoms since the initial the contact our A 68-year-c visit and is a successful scleral lens wearer. lens clinic for a scierai iens evaluation. Sne had been in Fovea: Not found scleral lenses for several years following a limbal stem Fovea: 194, 63 Discussion cell deficiency diagnosis. During examination, the Branch retinal vein occlusion is a vascular disorder OS OCT Fundus patient reported a new sudden on set of first her foss OS ILM-RPE Thickness characterized by a blockage of one of the branches of Diversified: of vis the CRV. The blockage is most often caused by arterial, Distribution was p of Normals venous, or blood coagulability changes within the 99% vascular system. BRVOs are the most common ocular Enteri 222 (249) 270 255 102 (174) 193 ر 95% م ODS OS veizers on, followed by CRVOs. Patients with sclera be asymptomatic or notice visual 7/29/2422 **UAB** Refra impairment in certain times of the day or body 2:44 PM 2:4224FANPM positioning. This patient noticed flashes of light and 74 60**60**9**0**1**573**74 6000-11574 Conju ILM - RPE OS OD loss vision, which are atypical symptoms of BRVO and 7/10 5/170/10 Signar Strenguy, navalvengti. OD: (+) NaFl Thickness Central Subfield (µm) not well-discussed in the literature. There is no cure for 360°; neo 2 mr RVO Sad treatments aim to reduce macular edema. Volume Cube (mm3) Macular OCT cornea 360° Thickness Avg Cube (µr Conclusion Cornead Horizontal B-Scan: (+) NaFl staining at limbus OD ILN OS Horizontal B-Scan OS ILM-RPE Thickness Map **BScan:** 63 case highlights the importance of addressing nt's concerns, regardless of their reason for visit. nt's often have more than one diagnosis, and it is A/C al for eye care providers to recognize symptoms 300 reat appropriately. In patients with BRVO, a quick Optic ral to a retinal specialist is vital for evaluation and 200 agement. Macu References 100 aulim, A., Ahmed, B., Khanam, T. & Chatziralli, I. $0 \mu m$

-99%

- 95%

-5%

174 ) 193

249 270

255 9

Differential Diagnoses

Diabetic Reti

Hypertensive retinopathy

Branch retinal vein occlusion Vitreous degeneration Poeter's Signature Fundo ILM-RPEODOWN SESSIES Thickness

Fovea: 194, 63

OS ILM-RPEOBILLIMES PE Thickness OCT FundsoCT

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