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Papillary venous loop in adolescence: A rare cause of branch retinal vein occlusion

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This case report aims to report a rare etiology of branch retinal vein occlusion in adolescence. Herein we would like to present a rare case of young patient with BRVO due to papillary venous loop, and summarize the highlight points from review of the literature. To the best of knowledge, our case is the first one that report the papillary venous loop could cause branch retinal vein occlusion. A 22 year-old college boy without systemic diseases presented to our clinic with complaints of seeing light spots over right lower half of the visual field for five days. Ophthalmic examination revealed a flame-shaped hemorrhage over temporal upper retina in the right eye (OD), other ophthalmic examinations were non-remarkable. Vital signs were checked with a stable blood pressure and heart rate within normal limits. Laboratory studies showed a normal range of complete blood count, random-glucose, lipid profiles, coagulation profiles, autoimmune indicators and inflammatory index. The fluorescein angiography revealed a delayed return of temporal upper venous circulation with an underlying ischemic zone at 22 seconds, and a small venous loop was visible and continuously enhanced since 42 seconds OD. A final diagnosis of papillary venous loop results in Branch Retinal Vein Occlusion (BRVO) OD was made. Branch retinal vein occlusion is a rare ophthalmic disease in young patients. In this population, a different differential diagnosis would be listed compared with the elderly. Papillary venous loop is one of the rare causes of branch retinal vein occlusion in youth, which should be bear in mind during clinical approaching.

Biography

Ming-Shan He has his expertise in treatment and passion in improving the retinal and macular disorders. His open and contextual evaluation model based on responsive constructivists creates new pathways for improving healthcare. He has built this model after years of experience in research, evaluation, teaching and administration both in hospital and education institutions.

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