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Study Spectral Domain Optical Coherence Tomography (SD-OCT) Characteristics of Retinal Layers in Branch Retinal Vein Occlusion

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Aim: To study spectral domain optical coherence tomography (SD-OCT) characteristics of retinal layers in branch retinal vein occlusion.

Methods: 30 patients with branch retinal vein occlusion attending vitreoretina clinic in a tertiary eye hospital were studied with SD-OCT. Integrity of inner segment outer segment junction, External limiting membrane, central retinal thickness and presence or absence of serous macular detachment was analyzed.

Results: 24(80%) patients had disrupted photoreceptor Inner Segment/Outer Segment (IS/OS) integrity. External Limiting Membrane was disrupted in 66.66% patients (n=20). Cystoids Macular Edema was present in 53.33% patients (n=16). Average central retinal thickness was 432.9µm.

Conclusions: Spectral domain OCT characteristics can help to detect the changes in various retina layers and thus predict the visual outcome in patients with macular edema due to branch retinal vein occlusion.

Biography

Dr. Gyanendra Lamichhane worked as Ophthalmologist (Phaco surgeon and medical retina specialist) at Shree Rana Ambika Shah Eye Hospital, Lumbini Eye Institute, Bhairahawa, Nepal from 15th June 2009 -19th February 2013. This institute is affiliated with the National Academy of Medical Sciences (NAMS), Nepal. Experience of more than twenty thousands (30,000) cataract and other ocular surgeries. House Officer, Universal College of Medical Sciences Bhairahawa, Nepal (2004-2006).

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