

OCT-Angiography: an essential diagnostic system

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Purpose: Showing the clinic relevance for the ocular professionals of this innovative technique, dye-less OCT-Angiography, to diagnose and follow up retinal and choroid all vascular diseases. Methodology & Theoretical Orientation: To get Angio-Oct, we have used the 3D Optical Coherence Tomography DRI OCT Triton of TOPCON. OCT- Angiography is a technique that allows us to follow-up vascular retinal pathologies, without injecting any dye. In this way it is possible to obtain information about the intravascular flow of the different internal and external layers of the retina, as well as the choroid using the same procedure as the capture of an optical coherence tomography. Its ability to display a detailed map, layer selective, of the capillary plexus makes this technique to consolidate as a reference at the diagnosis tests of pathologies. Clinic cases: Three clinical cases will be reported showing different pathologies of different patients with relevant vascular affection, to show the performance of this new test. We report a case of venous thrombosis combined with diabetic retinopathy, another case of age-related macular degeneration, and

at last a case of glaucoma. Retinography images, optical coherence tomographies and angiography-OCT (Figure 1) will be shown from the three patients. Conclusion: The use of OCT-Angiography for the diagnosis of retinal pathologies is of high impact, its advantages over known techniques: dye-less, non-invasive, layer selective, repeatability of the test, rapid technique, more comfortable for the patient, costs of follow-up study decrease, among others.

Speaker Biography

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