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The role of anterior segment optical coherence tomography in corneal melting disorders

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Detailed examination of the anterior segment of the eye is essential in ophthalmic practice with the use of the slit lamp and provides a vast amount of information. However, modern imaging techniques are allowing us to acquire even more information especially at microscopic level that we would not identify otherwise. Anterior Segment Optical Coherence Tomography (AS-OCT) is able to provide such details in microscopic level both quantitative and qualitative, especially in situations where changes occur slowly such as in case of corneal melt. We studied three patients who attended our clinic with corneal melts and we used a high-speed spectral domain AS-OCT (TOPCON OCT 2000 and RTVue®) to take cross-sectional images during the course of the treatment. The images obtained on each follow-up were compared and by measuring the corneal thickness we monitored the healing process. Once Seidel negative was observed, a bandage contact lens was placed as adjuvant to assist in corneal healing, with satisfactory resolution in all cases. We believe that AS-OCT is a valuable tool for the assessment of the healing process of corneal melt and it should be used routinely in similar cases.

Biography

Georgios Vakros has completed his Medical degree from the University of Aberdeen and Master of Science from the Institute of Ophthalmology, University College London, UK. He is currently a Resident in Ophthalmology, London, UK.

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