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Introduction

In the last few years, structural and functional optical coherence tomography (OCT) technology has seen new and revolutionary developments. The most important of which is arguably an OCT angiography (Angio-OCT). Angio-OCT is already playing an important role in clinical ophthalmology as a new, non invasive and dyeless diagnostic tool, which serves as an adjunct to, or even a replacement for fluorescein and indocyanine green (ICG) angiographies. Angio-OCT is bringing multiple technical and clinical improvements in the study of retinal diseases, glaucoma and optic nerve disorders. It enables rapid, high-resolution visualization of vascular structure in three dimensions as well as ease of repeated imaging.

In the Clinical Guide to Angio-OCT (Non Invasive, Dyeless OCT Angiography), we offer a step-by-step guide for interpreting clinical images and data acquired by Angio-OCT. In this book, we present a logical method for interpreting ophthalmic images. The first phase is analytic. The second phase combines elementary components to synthesize the data, allowing an accurate diagnosis and treatment decision. We also update OCT terminology in order to have a standardized approach for assessing Angio-OCT features. The book explains similarities and differences between this new imaging method, and the classical fluorescein and ICG angiographies. Very soon new advances in technology will further improve Angio-OCT imaging, making day-to-day clinical work easier. We trust the book will help ophthalmologists, residents, ophthalmic technicians and optometrists to understand and appreciate the new possibilities offered by the latest Angio-OCT imaging technologies.

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