

DRI OCT Triton, Swept Source OCT with multi modal imaging

Choroidal Neovascularisation with Fibrosis

Physician: Dr. Carl Glittenberg, Karl Landsteiner Institute for Retinal Research and Imaging, Vienna, Austria

Patient History:

Gender: Female

Age: 59

Diagnosis: Choroidal Neovascularisation Type II on the right eye

Treatment: 5 intravitreal injections of anti-VEGF on the right eye

Examination Techniques and Results:

A high definition swept source OCT B-scan, a full color fundus photograph, and a swept source OCT angiography (SS-OCT Angio) were performed. The examinations were collected on a Topcon DRI OCT Triton™ Plus swept source OCT system. The fundus photograph shows an area of macular fibrosis. The B-scan shows a mixture of subretinal highly reflective material (SRHM) and fibrotic material as well as subretinal fluid. The SS-OCT Angio shows hyper-mature neovascular vessels inside the fibrotic lesion. OCT Angio images were post processed by Dr. Carl Glittenberg.

Clinical Relevance:

The ability to visualize hyper-matured vasculature inside of fibrotic lesions will improve our understanding of the etiology and treatment of choroidal neovascularisations. Due to the ability of swept source OCT and SS-OCT Angio to penetrate deeper into such lesions a better visualization can be guaranteed. This will be invaluable as new treatment modalities to avoid hyper maturation of neovascular vessels become available.

