OCT Basics

- Optical Coherence Tomography
  - Provides Cross Sectional Retinal Structure Images
  - Detection of Pre-, Intra- and Sub-retinal abnormalities
  - Coherent Light (superluminescent diode) is projected on the retina, the beam crosses the transparent layers, while partly scattered and then reflected from the vit-ret interface allowing acquisition of images.

Retinal Anatomy

OCT- Macula

Scan Orientation

1/18/2011 11/1/2011 8/22/2012
OCT-Scanning Around

OCT-Search for PVD
No annulus on exam
Post vit attached

Scanning A Peripheral Lesion

OCT-Outside of Macula
Peripheral Vit attachment
Retinoschisis

OCT-Peripheral Retina

White Without Pressure (Demystified)
Spectral Domain Optical Coherence Tomography Characteristics of White-Without-Pressure Retina Sep 2013 Pressure
OCT-White without Pressure

Peripheral Microcystoid

Peripheral Drusen

Paving Stone Degeneration

Paving Stone Degeneration

Absence of choroidal features

Compare choroidal thickness

Overlying retinal atrophy
Peripheral Hemorrhage

CHRPE

Peripheral Lesions (CHRPE)

Suspicious CHRPE with secondary melanocytic proliferation
Peripheral Lesions

Peripheral lesions