

Overview of Spectral Domain Optical Coherence (Heidelberg Engineering) Tomography Diagnostic/Evaluative Imaging Among Patients of African Descent Attending Premiere Eye Center Victoria Island Lagos

Akinwale Akinfe*

Consultant Ophthalmologist, Vitreo-Retina Specialist, President Double AA Medical International Foundation Lagos, Nigeria

***Corresponding Author:** Akinwale Akinfe, Consultant Ophthalmologist, Vitreo-Retina Specialist, President Double AA Medical International Foundation Lagos, Nigeria.

Received: December 27, 2016; **Published:** December 28, 2016

Introduction

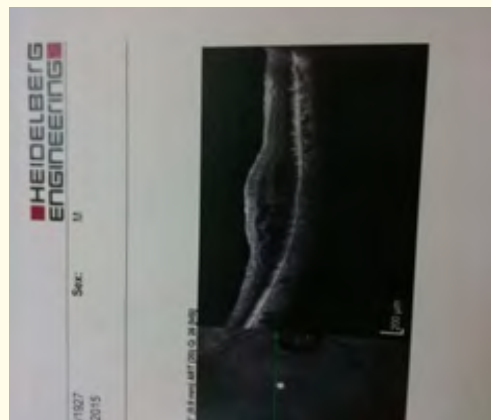
Spectral Domain OCT (Heidelberg Engineering)

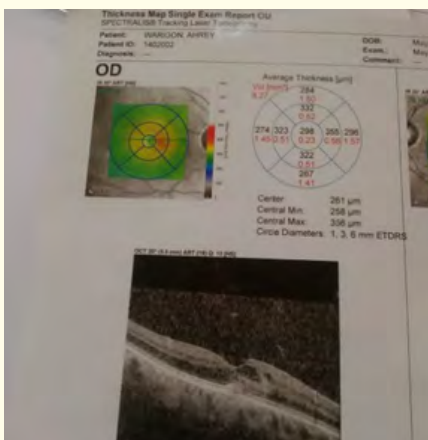
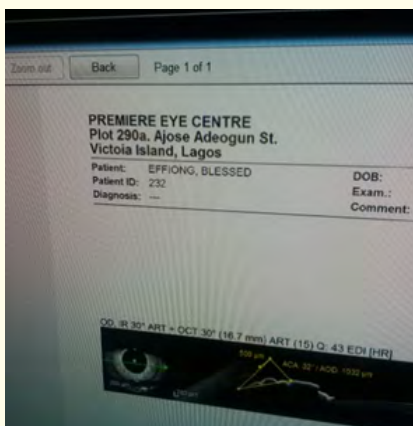
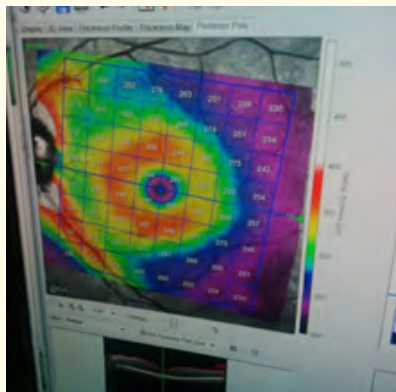
Spectral domain OCT, also known as fourier-domain OCT, is a significant improvement on time domain OCT. Spectral domain OCT eliminates the moving reference mirror found in time domain, enabling scan rates up to 100 times faster. With spectral domain OCT, all of the wavelengths of returning light are analyzed simultaneously, resulting in faster collection of more data. Faster scan rates are desirable to help limit motion artifact and to obtain more information in order to locate the position of the scan in the eye.

Heidelberg Engineering selected a long wavelength super luminescent diode (SLD) with a peak wavelength of 870 nm to enable the best penetration of infrared light through cloudy media, often found in aging patients due to cataracts and other signs of aging.

Objective

To highlight some of its significance in the ophthalmic diagnostic imaging in anterior segment, glaucoma and retina\ diseases.





Conclusion

Spectral Domain Optical Coherence Tomography is highly diagnostic and evaluative in imaging of ocular diseases among African descent.

Volume 4 Issue 5 December 2016

© All rights reserved by Akinwale Akinfe.