



# OPHTHALMOLOGICAL SOCIETY OF NIGERIA

## 72nd ANNUAL GENERAL MEETING AND SCIENTIFIC CONFERENCE KADUNA 2017



### SUSTAINABLE DEVELOPMENT GOALS AND EYE CARE DELIVERY IN NIGERIA

DATE: 22nd - 25th August, 2017

VENUE: Hotel Seventeen, No. 6 Tafawa Balewa Way/  
Lafia Road, Kaduna, Nigeria.

#### SUB-THEME:

- \* Blindness and its Burden in a Depressed Economy
- \* The Role of Diagnostic- Imaging in Eye Care Delivery
- \* Advocacy for Glaucoma

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## Comparison between Peripapillary retinal nerve fiber layer and Perifoveal inner macular thickness in early diagnosis of primary open angle glaucoma using Angio OCT

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### Power point presentation

**Purpose:** To evaluate the peripapillary retinal nerve fibers layer (RNFL) thickness and perifoveal inner macular thickness in early detection of glaucomatous optic neuropathy (GON) using the optical coherence tomography Angiography (Angio - OCT).

**Setting/Venue:** Minsk City Clinical Hospital'3, Department of Ophthalmology, Belarusian State Medical University, Minsk.

**Material and Methods:** Included in our study were 40 eyes of 23 patients with stage I primary open angle glaucoma (POAG) as the main group, 30 eyes of 17 glaucoma suspects and 20 eyes of 10 healthy subjects as the control group. The median age of the respective groups were 64.0 (58.0 74.0), 57.5 (44.0 60.0), 52.0 (51.0 53.0). All subjects underwent angio - OCT scanning of the posterior retina segment using RTVue100 "Optovue" under mydriasis. The 'ONH scan' and 'Retina Thickness Map 5x5mm' programs were respectively used to scan the peripapillary and macular regions. Analyzed were all parameters (average total, superior, inferior, temporal and nasal thicknesses) of the peripapillary 3.45 RNFL and the perifoveal inner macular.

**Results:** Patients with stage I POAG had significant decrease in all parameters of both

Peripapillary RNFL and perifoveal inner macular thickness as compared to the control group. Group analysis using the Mann-Whitney test revealed statistically significant differences between the main and control groups in only superior and inferior peripapillary RNFL thickness. In the macular region, statistically significant differences between patients with stage I POAG and healthy individuals were identified in average, temporal and nasal perifoveal inner macular thickness. Similar results were also noted between the patients and glaucoma suspects groups. The temporal perifoveal inner macular thickness has the highest Area under the receiver operating characteristic curve (AUC) (0.965).

**Conclusion:** In early detection of glaucomatous optic neuropathy in primary open angle glaucoma, parameters of the perifoveal inner macular thickness are diagnostically not significant as compared to those of peripapillary RNFL thickness using the OCTA 'Optovue'.

**Keywords:** Angio - OCT, primary open angle glaucoma.

## PATTERN OF GLAUCOMA PRESENTATION IN ABUTH- A pilot study

**Authors:** Sharief S, Orugun A.J, Abdulrahman Pam V **Correspondence / Presenter:** Dr. Sharief Power point presentation.

**INTRODUCTION:** Glaucoma, a leading cause of irreversible blindness worldwide, is defined as a group of disorders with characteristic optic neuropathy, associated with visual field loss from progressive retinal ganglion cell death. It is the second leading cause of blindness.