Neuro-Ophthalmology

**IS IT GLAUCOMA? OR SOMETHING ELSE?**

**Rui Ferreira**¹², Afonso Lima Cabrita¹², Miguel Costa Santos¹², Diogo Bernardo Matos¹², Luís Abegão Pinto¹², Joana Tavares Ferreira¹²³

¹Ophthalmology Department, North Lisbon University Hospital Centre, Portugal
²Universitary Clinic of Ophtalmology, Lisbon School of Medicine, Portugal
³Ophthalmology Department, CUF Descobertas and Cascais Hospitals, Portugal

**PURPOSE:**

This study aims to analyze the demographic and clinical characteristics of the patients with an enlargement of optic disc cupping referred to a neuro-ophthalmology evaluation from the glaucoma department.

**METHODS:**

This is a retrospective study. We obtained a list of all the patients examined in both neuro-ophthalmology and glaucoma visits in our tertiary center, between 2019 and 2021, including the ones evaluated on a “virtual” glaucoma consult (low risk patients referred from other departments who were submitted to a standardized diagnostic exam panel).

**RESULTS:**

From an initial 72 patients list, 37 were referred from the glaucoma department to a neuro-ophthalmology consult and were included in the study, of which 15 (40,5%) were females, with a mean age of 70 ±16 years. From those 37 patients, 13 (35,1%) were referred from the “virtual” glaucoma consult and 24 (64,9%) from the standard “face to face” visit. The presence of a non-glaucomatous optic neuropathy was corroborated in 29 (78,4%) of those patients, being non-arteritic anterior ischemic optic neuropathy (AION) the most common diagnosis n=15 (51,7%), followed by arteritic AION n=7 (24,1%), compressive AION n=2 (6,9%), cerebral ischemic stroke n=2 (6,9%), and infiltrative AION, genetic AION, retinal vein occlusion with 1 case each (3,4%).

**CONCLUSIONS:**

Optic disc cupping can be associated with non-glaucomatous disease and may warrant neuro-ophthalmological evaluation, mainly when the progression of the disease “glaucoma” does not correspond to what is expected.

Financial Disclosure: No