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## Dynamics of compliance in glaucoma progression: A cross-sectional study comparing IOP and CCT devices followed by a longitudinal IOP and cup-to-disc ratio analysis

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An observational study by a single investigator was conducted to evaluate the glaucoma progression during adequate therapy and excellent patient compliance. A quantitative analysis was conducted to establish the accuracy and correlation between two widely-used ultrasound and non-contact CCT devices. A qualitative analysis was performed to determine the fluctuations of IOP and glaucoma excavation over a period of 25 weeks. A two-tailed t-test and Pearson's correlation were performed for statistical analysis. All participants were clinically proved to have POAG. 70 eyes from 35 patients, 7 men and 28 women (age range 51-85, mean age 65,9) were examined. Each had their CCT measured using OcuscanRxP Ophthalmic Ultrasound System and IOP using Goldman Applanation Tonometer (GAT), and then compared to IOP and CCT measured with Nidek NT-530P Combination Non-contact Tonometer, Non-contact Pachimeter. Baseline: IOP and cup-to-disc ratio. Follow-up: IOP using GAT (after 12 and 25 weeks) and cup-to-disc ratio (after 25 weeks).

### Biography

Stanka Uzunova has completed her graduate training in Medicine in 1991 at the Medical University of Plovdiv and in Ophthalmology at Medical Academy, Sofia. She specializes in glaucoma and has her own private practice. She has published more than 18 papers in reputed journals and in 2009 established the first Glaucoma School for patients in Bulgaria. She supports initiatives for the early detection of glaucoma and organizes free annual screening events. Professional interests also include AMD, the application of stem cells in ophthalmology, clinical trials and research.

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