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Correlation between tear flm lipid layer and symptoms in diabetic patients with meibomian gland dysfunction

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- To assess the tear Im lipid layer pattern in type 2 diabetes patients and healthy subjects, the correlation of the symptoms between the Ocular Surface Disease Index (OSDI) symptom questionnaire and the National Eye Institute Vision Functioning Questionnaire (NEI-VFQ).
- is is a case-control study and all patients were investigated for the presence of meibomian gland dysfunction/MGD using the International Work Shop in MGD's criteria according to the meibomian glands/MG secretion's quality and viscosity, MG's morphology, and lipid layer thickness/LLT. e LLT was measured using interferometry Polaris system prior and subsequent to a 10-minute period. e Ocular Surface Disease Index (OSDI) symptom questionnaire and the National Eye Institute Vision Functioning Questionnaire (NEI-VFQ) were correlated. e results between groups were analyzed using the statistical Kruskal-Wallis and Mann-Whitney tests association between variables was explored by Spearman's correlation.
- . 1 73 subjects were studied (37 diabetics and 36 controls). e mean age was $59\pm8.7\%$ of participants presented MGD (76% diabetics and 67% controls). e symptoms through OSDI questionnaire was signicantly higher (p=0.016) in the diabetic group with a lower NEI VFQ (67.86; p=0.002). e lipid layer pattern was lower in diabetic patients group with DGM; NIBUT was lower in the diabetic group (sg 2.47 ± 1.2), with a signicant inverse correlation (52.22%) with MG in ammation and a moderate correlation (32.4%) with corneal staining. e LLT presented a positive correlation between the meibomian gland alteration as hyperkeratinisation and in ammation (p=0.0005) and symptoms. Positive correlations were found in diabetic group between corneal staining and symptoms with OSDI questionnaire.
- diabetes patients. e LLT is lower in diabetic group than in normal subjects, which implies decreased tear Im stability and increased subjective symptoms associated with a decreased quality of life.

Biography

Johanna Garzón P is a candidate of Doctor with PhD in Advanced Optometry and Vision Sciences in Advanced at Valencia University, Spain. She is an Optometrist of The Salle University, Specialist in Ocular Primary Careat Andina University FUAA-Colombia, Master's in Pharmacology Sciences at National University of Colombia, UNAL. She has her expertise and research job in ocular surface, dry eye and ocular pharmacology. She is titular Professor at the Salle University in Bogotá Colombia, and is the President of Fedopto, the Professional College of Optometry in Colombia.

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