

AUTOLOGOUS PLATELET RICH-PLASMA EYE DROPS FOR THE TREATMENT OF DRY EYE SYNDROME

D. Wróbel-Dudzińska^{1,2}, J. Alió^{3,4}, A. Rodriguez⁵,
T. Żarnowski^{2,6}

¹*Department of Cornea and Refractive Surgery, Research Fellow, VISSUM Corporation, Alicante, Spain*

²*Department of Diagnostics and Microsurgery of Glaucoma, Medical University Lublin, Poland*

³*Department of Cornea and Refractive Surgery, VISSUM Corporation, Alicante, Spain*

⁴*School of Medicine, Miguel Hernandez University, Alicante, Spain*

⁵*Research and Development Department, VISSUM Corporation, Alicante, Spain*

⁶*Department of Diagnostics and Microsurgery of Glaucoma, Medical University Lublin, Poland*

Purpose: To investigate the effect of topical application of autologous platelet-rich plasma (PRP) eye drops in dry eye disease treatment. **Methods:** Three hundred forty three patients with moderate to severe dry eye syndrome were treated with topical autologous PRP eye drops 6 times a day and followed up for 3 months. The evaluation consisted of an ophthalmological examination including best corrected visual acuity measured by Snellen charts, slit lamp examination, staining of the anterior segment with fluorescein, tear meniscus height, conjunctival hyperemia and disappearance of subjective symptoms. **Results:** Only 30% percent of patients improved at least 1 line of best corrected visual acuity while 64% presented no change. Decrease or disappearance of corneal fluorescein staining was observed in 83% of the patients. A significant improvement on tear meniscus height in 72% of the cases and conjunctival hyperemia in 84% of the eyes were noticed. The subjective symptoms of dry eye improved on 89% of the patient. **Conclusion:** Autologous platelet-rich plasma eye drops are considered to be effective therapy in majority of the cases with dry eye syndrome. **Financial Disclosure:** None