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Experience of using IPL therapy in the treatment of ocular rosacea

Abstract. Background. Rosacea is a chronic inflammatory disease characterized by damage to the skin of the face, eyelids and eyes. Purpose of the work is to share our own experience of using intense pulsed light (IPL) therapy for ocular rosacea in patients with dry eye syndrome. **Materials and methods.** Own experience of using IPL therapy in ocular rosacea is presented. The Ocular Surface Disease Index was used, ocular surface was analyzed on the SBM System OSA device (Italy). The indicators of interferometry, tear break-up time were determined, and IPL treatment was carried out.

Results. IPL therapy for ocular rosacea in patients with dry eye syndrome in combination with conservative therapy improved the Ocular Surface Disease Index on average from 30 to 14 points. The indicators of interferometry (lipid layer) and tear break-up time improved after treatment in all patients (the lipid layer improved, tear break-up time increased by 9.3 seconds on average). **Conclusions.** IPL therapy is an effective therapeutic method in ocular rosacea.

Keywords: ocular rosacea; intense pulsed light therapy; Ocular Surface Disease Index; interferometry; tear break-up time