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Service (sector) Ocular Plastic Surgery N° CEP

**Effect of ocular prosthesis on corneal sensitivity.**

Lucci, LM; Sant'Anna, AE; Itami, C; Osaki, M. Purpose: To analyze the variations in corneal sensitivity of blind eyes induced by wearing of ocular prosthesis. Methods: Prospective study of 23 patients with unilateral phthisis bulbi and a preserved cornea. Corneal sensitivity was measured using the Cochet-Bonnet aesthesiometer before and after wearing an ocular prosthesis. Results: Corneal sensitivity of the phthisis bulbi eye was significantly lower than the normal eye (control). In 95,6% there was decreased corneal sensitivity 3 months after adaptation of ocular prosthesis. Conclusion: After wearing ocular prosthesis, there was reduction in corneal sensitivity in phthisis bulbi. The pathophysiology seems to be the same that found on contact lens wearers.

Key words: ocular prosthesis, corneal sensitivity, Cochet-Bonnet aesthesiometer.