( ) R1 (X) R2 ( ) R3 ( ) PG0 ( ) PG1 ( ) Estagiário ( ) Tecnólogo ( )
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Service (sector) Glaucoma Nº CEP

A RANDOMIZED CLINICAL TRIAL COMPARING THE INTRAOCULAR PRESSURE CHANGES WITH THE USE OF LOTEPREDNOL AND DEXAMETHASONE AFTER PTERYGIUM SURGERY

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Purpose: To compare the intraocular pressure (IOP) changes after pterygium surgery among patients using loteprednol and dexamethasone in the postoperative period. Methods: A 6-week open-label randomized clinical trial was conducted involving 35 patients who underwent pterygium surgery with conjunctival autograft transplantation. After the surgery, the patients were randomly assigned in two groups. The patients in Group I received loteprednol etabonate 0.5% and in Group II received dexamethasone 0.1%. In both groups the corticosteroids were used for 4 weeks and the IOP was measured once-weekly for the first 4 weeks and at 6 weeks after the surgery. Results: The IOP increased in both groups after the surgery (Group I - 4.1 ± 2.3 mmHg; Group II – 5.0 ± 3.2 mmHg; $p<0.001$), which returned to preoperative levels after the 4th postoperative week. However, it was not found a statistically significant difference ($p=0.370$) of IOP increases between these two groups. Conclusion: The IOP increases in patients using loteprednol and dexamethasone after pterygium surgery, but there is no difference in IOP change between the corticosteroids used.