

3rd International Conference on EYE AND VISION August 21-23, 2017 | Toronto, Canada

## Effect of Anti-inflammatory treatment on intraocular pressure after selective laser trabeculoplasty

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**Statement of the Problem:** Topical steroids are known to increase intraocular pressure (IOP). The purpose of this study is to analyze the effect of anti-inflammatory drops (i.e. comparing topical corticosteroids versus non-steroidal anti-inflammatory drugs - NSAIDs) on intraocular pressure following Selective Laser Trabeculoplasty (SLT).

**Methodology & Theoretical Orientation:** 37 consecutive patients with open-angle glaucoma were randomly allocated into 2 treatment groups after a SLT procedure: ketorolac 0.5% (Acular<sup>®</sup>, N = 19) and fluorometholone 0.1% drops (FML<sup>®</sup>, N =18). IOP was measured 1h, 24h, 1 week, and 1, 3 and 6 months after SLT.

**Findings:** IOP reduction was significant in both groups (mean reduction  $5.22 \pm 3.55$  mmHg in the ketorolac group, and  $5.19 \pm 3.57$  mmHg in the fluorometholone group, p < 0.001). There were no statistically significant differences in IOP between both groups through follow-up, except significantly lower IOP in the ketorolac group at 3 months ( $18.14 \pm 2.49$  mmHg) than in the fluorometholone group ( $20.88 \pm 3.24$  mmHg,

p = 0.009), with no differences at 6-month follow-up (mean IOP in both groups 19.09 ± 3.08 mmHg, and 19.69 ± 2.85 mmHg, respectively, p = 0.575). There were no statistically significant differences in mean IOP in the first 24 hours following the procedure (22.26 ± 4.73 in the ketorolac group and 24.36 ± 5.76 mmHg in the fluorometholone group, p = 0.236).

**Conclusion & Significance:** The anti-inflammatory treatment after SLT does not seem to have a short-term effect on the ocular hypotensive efficacy of selective laser trabeculoplasty, nor on the incidence of hypertensive peaks in the early post-treatment follow-up.

## Speaker Biography

Laura Palmero Fernandez is an Ophthalmologist based in Madrid, Spain. She currently combines her work at King Juan Carlos University Hospital with a private practice. Her subfield of expertise includes cornea and ocular surface diseases, and cataract and refractive surgery. Her research is focused on keratoplasty techniques, keratoconus and challenging cornea cases.

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