

# VISION SCIENCE AND EYE

August 10-11, 2017 | London, UK

## Effect of early phenylephrine and ketorolac injection 1%/0.3% (Omidria®) usage on pupil diameter in traditional and femto-assisted cataract surgery

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**Aim:** Aim of this study is to determine the effect of early usage of phenylephrine and ketorolac injection 1%/0.3% (Omidria) on pupil dilation in patients undergoing cataract surgery with femto-assisted or traditional phaco approach.

**Setting:** Single center private practice.

**Study Design:** Case series review.

**Methods:** A total of 77 patients underwent cataract surgery with traditional phacoemulsification approach (n=57) using Stellaris or Stellaris and femto-assisted (n=20) using the Catalys Precision Laser System (Abbott Medical Optics Inc., Santa Ana, CA). All patients received preoperative topical cyclopentolate, phenylephrine, and hydroxyamphetamine. All patients received phenylephrine and ketorolac injection 1%/0.3% (Omidria) diluted in BSS through the side port incision at the beginning of the case. Pupil diameter was measured by calipers for traditional phaco, and by calipers and the Catalys system for femto-assisted surgery at surgical time points occurring before phenylephrine and ketorolac injection 1%/0.3% (Omidria), after phenylephrine and ketorolac injection 1%/0.3% (Omidria), and before IOL insertion. For femto-assisted cases, pupil diameter was also measured at the Catalys laser prior to the femto procedure and upon return to the OR from the femto procedure room.

**Results:** For traditional phaco, the mean pupil diameter was 6.65 mm at baseline and 7.42 mm intraoperatively before IOL insertion. For femto-assisted surgery, the mean pupil diameter was 6.69 mm at baseline and 7.65 mm prior to IOL insertion.

**Conclusions:** Phenylephrine and ketorolac injection 1%/0.3% (Omidria) maintained or increased pupil size when used in either traditional phacoemulsification or femtosecond laser assisted cataract procedures.

### Biography

Johnny Gayton is regarded as one of the world's leading eye surgeons. He has always been motivated by the scriptural admonition to do all things heartily as unto the lord. His desire to do his best has contributed to success in school, championships in sports, speaking engagements, charitable endeavors, and surgical excellence.

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