

10<sup>th</sup> International Conference on

# Clinical & Experimental Ophthalmology

November 21-23, 2016 Dubai, UAE

## Efficacy of topical dorzolamide 2% in diabetic cystoid macular edema

**Amani Badawi**

Mansoura University, Egypt

**Purpose:** To determine the effect of a topical dorzolamide 2% on the macular thickness and function in patients with diabetic cystoid macular edema (CME).

**Setting:** Mansoura Ophthalmic Center, Mansoura University, Mansoura, Egypt.

**Methods:** The study was planned as a prospective, non-randomized, controlled and interventional study. A total of 84 diabetic patients (93 eyes) with secondary cystoid macular edema were included in the study. All eyes received topical dorzolamide 2% every 8 hours/day for one month. Changes in best-corrected visual acuity (BCVA), intraocular pressure (IOP), and optical coherence tomography measurements were evaluated at one week, one month and 3 months post-treatment.

**Results:** Mean (logMAR) best-corrected visual acuity pre-treatment and one week, 1 month, and 3 months post-treatment was  $1.08 \pm 0.26$ ,  $1.02 \pm 0.28$ ,  $0.66 \pm 0.24$  and  $0.87 \pm 0.26$ , respectively. The mean baseline central macular thickness was  $535.27 \pm 97.4 \mu\text{m}$  and reduced to  $420.87 \pm 115.24 \mu\text{m}$  (21.4% reduction) at one week and  $357.43 \pm 125.8 \mu\text{m}$  (33.2% reduction) at one month and then showed slight increase and reached  $376.23 \pm 134.5 \mu\text{m}$  (29.7% reduction) at the end of 3 months, but still statistically significantly less than the baseline value.

**Conclusions:** Topical dorzolamide 2% significantly improved BCVA and reduced mean central macular thickness at 3 months. It could be effective, affordable and safe therapy in treating non-refractory diabetic cystoids macular edema.

### Biography

Amani Badawi has completed her PhD in 2012 from Mansoura University, Egypt. She has worked as an Assistant Lecturer of Ophthalmology, Mansoura Ophthalmic Center in Egypt from 2006-2012 and as a Lecturer of Ophthalmology in Mansoura Ophthalmic Center in Egypt from 2012 to till date. She has published three papers and has been serving as a Reviewer in two different journals.

amanibadawi37@yahoo.com

### Notes: