POSTER 76
A Comparison of Systane® Lubricant Eye Drops Versus Refresh Tears® Lubricant Eye Drops When Used as Supportive Therapy with Restasis® Ophthalmic Emulsion

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Background: Evaluate the efficacy/compatibility of two marketed artificial tears in relieving dry eye signs/symptoms when used as supportive therapy to a cyclosporine-based ophthalmic emulsion.

Methods: Sixty evaluable patients, by intent-to-treat analysis, took part in this randomized, investigator masked, parallel study of 6-months duration. Enrollment criteria: corneal staining of >3 (NEI grid), Schirmer without anesthesia of <7 mm, and subjects had to answer that they needed artificial tears at least "some of the time." Subjects were randomized to one of three treatment (Tx) groups:

Treatment 1: Restasis® [0.05% cyclosporine] b.i.d. w/Systane® (PEG 400/proplylene glycol) w/HP-Guar as gelling agent] used a minimum of 1/day as supportive therapy.

Treatment 2: Restasis® b.i.d. w/Refresh Tears® [carboxymethylcellulose] used a minimum of 1/day as supportive therapy.

Treatment 3: Systane® used alone q.i.d. Signs/symptoms were measured at Days -7, 0, 7, 14, 28, 42, 120, and 180.

Results: Statistical difference seen in favor of Tx1 [Restasis® + Systane®] vs. Tx2 [Restasis® + Refresh®] for greater reduction in corneal staining (p = 0.0048) and a trend (p = 0.0725) for increased TFBUT at 6 months. Schirmer test showed nonsignificant increases from baseline at 6 months: Tx1 = 1.41; Tx2 = 2.15; Tx3 = 1.42 mm. Significant differences seen in favor of Tx1 vs. Tx2 for less frequent ocular burning (p = 0.0210), stinging (p = 0.0314), grittiness (p = 0.0128), and dryness (p = 0.0132). Tx3 [Systane® alone] was better than Tx2 [Restasis® + Refresh®] for less frequent ocular burning (p = 0.0288), dryness (p = 0.0480), and scratchiness (p = 0.0294).

Conclusion: Artificial tears used as supportive therapy with Restasis® has significant indications for outcome measures. There were significant clinical advantages with Restasis® + Systane® vs. Restasis® + Refresh Tears®. There were no clinical or statistical differences seen between Restasis® + Systane® and Systane® used alone. Both supportive therapies were compatible with Restasis®.

[This study was sponsored by Alcon Research Limited, Fort Worth, Texas.]
Study 2: TF BUT mean at baseline was 2.25. Comparisons between treatments showed that Concept Tear and Systane® were not statistically different (t 5 Concept Tear Mean = 3.8; Systane® Mean = 4.4).

Conclusions: These studies demonstrated that Concept Tear was similar to Systane® under acute dosing conditions. (This study was sponsored with grant support from Alcon Research, Ltd., and all authors are employees of Alcon Research, Ltd., Fort Worth, Texas.)

POSTER 78
Atypical Unilateral Painless Vision Loss in an Adolescent: A Case Report
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Background: Unilateral painless vision loss can be very alarming for both the patient and clinician, especially when it involves a child or adolescent. Determining the correct diagnosis requires careful review of the child's ocular and medical history, as well as neuroimaging and blood testing, to rule out the more uncommon and often ominous etiologies.

Case Report: A 16-year-old boy was brought to us with a chief symptom of decreased vision O.D. that began three days earlier and gradually worsened. The patient reported no eye pain or headache associated with the loss of vision. Ocular and systemic histories were unremarkable per patient and guardian. No use of medications or allergies reported. Best-corrected visual acuities were 20/20 O.D. and 20/20 O.S. Pupil testing revealed a positive afferent pupillary defect O.D. Extraocular muscle movements were full and unrestricted. Intraocular pressures were 17 mmHg O.D. and 16 mmHg O.S. Blood pressure was 118/77 RAS. Humphrey visual-field testing revealed complete loss of vision O.D. and isolated points in the inferior arcuate and nasal fields O.S. Dilated fundus evaluation revealed prominent optic nerve head drusen OU, with no evidence of pallor or edema. The cornea appeared well perfused, with healthy vasculature OU.

Methods: The patient was referred out to the local children's hospital for immediate CT, MRI, and blood workup. The final diagnosis was optic neuritis O.D. and a regimen of intravenous methylprednisolone was initiated immediately. Nine months later, BCVAs were 20/25 O.D. and 20/20 O.S., with essentially complete resolution of visual-field loss O.D.

Conclusions: Optic neuritis is an acute inflammatory process affecting the optic nerve that is rarely seen in patients under the age of eighteen. Although the diagnosis of optic neuritis seems logical, given the initial presenting symptoms, it is one that requires immediate neuro-imaging and blood testing to rule out other potentially serious neurological or systemic causes.

POSTER 79
Topiramate and Unilateral Granulomatous Uveitis
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Background: Topiramate is a new anti-epileptic agent, also used for the management of migraines. This medication has documented ocular complications, the most-severe being acute angle closure. Other complications include transient myopia, ciliary swelling, and suprachoroidal and uveal effusion. This case proposes a possible connection between topiramate and unilateral granulomatous uveitis.

Methods: A 45-year-old woman was referred to me by her internist for a painful red eye. She had a long history of migraine headaches, and had initiated topiramate approximately seven weeks earlier. Her right eye was severely painful, injected, and photophobic. Examination revealed a mid-dilated pupil that was 80% syneched to the lens. She had open angles and +4 cells in the anterior chamber. The cornea was deposited with "mutton-fat" granulomatous keratic precipitates. Her intraocular pressure was 9 mmHg. Vitreous and posterior poles were clear, and the left eye was completely unaffected.

Results: Cyclopentolate was administered and soon the synchiae began to break, so Cyclogyl® q.i.d. and PredForté every hour were prescribed. A stronger cycloplegic agent was avoided to prevent an acute angle closure. With permission of the internist, the patient was also advised to discontinue the topiramate. The next morning the patient was feeling much better, though a few synchiae remained, so they were broken by one dose of atropine. The standard uveitis panel of testing yielded no systemic findings and the patient has completely recovered with standard treatment for uveitis. She has discontinued the topiramate and has been uveitis-free for 15 months.

Conclusion: Though there are no documented studies indicating a connection between unilateral granulomatous uveitis and topiramate, this patient appeared to have such a response. Most of the known ocular complications involve ciliary body problems, so it is conceivable that this type of inflammatory response is possible.

POSTER 80
Manifestations of Early Ocular Ischemic Syndrome
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Background: Ocular ischemic syndrome describes a variety of signs and symptoms resulting from inadequate oxygen perfusion to the eye secondary to blockage of the carotid arteries. Both the anterior and posterior segments can show significant changes from ocular ischemic syndrome, including neovascular glaucoma, anterior uveitis, dilated and beaded veins, and mid-peripheral blot retinal hemorrhages. The condition most commonly affects men above the age of 50 years with other ath-