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Randomized, Placebo-Controlled, Integrated Phase III Clinical Trials of a Once Daily, Low-Concentration, Modified Bromfenac Ophthalmic Solution Following Cataract Surgery: **Focus on Zero to Trace Anterior Chamber Inflammation**



J.A. Gow¹, J.D. Boyce², H.J. Reiser³, R. Berry⁴, J.T. Dao⁵, and S.P. Chandler¹ for the Low Concentration Bromfenac Ophthalmic Solution Once Daily Study Group

¹Bausch & Lomb Inc., Irvine, CA, ²Orange County Ophthalmology Medical Group, Garden Grove, CA, ³Eye Care Specialists, Kingston, PA, ⁴Eye Care Arkansas PA Little Rock, AR, ⁵Cornea Consultants of Arizona, Phoenix, AZ

Recretize: To evaluate in a post-hoc analysis the reduction of ocular inflammation to 0 or trace enterior champer inflammation of low-concentration, modified bromfense ophthalmic solution dosed once daily compared to placebo following cataract surgery in 2 integrated clinical trials.

pressure, and dilated funduscopic examination). Statistical significance was determined using a Fisher's exact test.

Newtish in the intent-to-treat poulation, subjects had a mean age of 68.0 years, were predominantly Caucasian (74.9%), and included a higher percentage of female subjects (65.2%). Bealed characteristics were similar across treatment groups. A significantly higher proportion of subjects achieved trace couls inflammation in the bromferias group compared to placebo as early as Day 3 (27.9% vs. 13.9%), p=0.0008), continued on Day 8 (35.4% vs. 24.3%, p < 0.0001), and proup of the placebo secretary and placebo becomes characteristic proposal proposal positions of the placebo were constitution, model before the placebo were constituted, model before the placebo were constituted as the produced a been over all includince of coulier advises events.

Conclusion: Low concentration, modified bromfenac ophthalmic solution dosed once daily effectively and safely reduced ocular inflammation associated with

Introduction

- Bromfenac is a non-steroidal anti inflammatory drug (NSAID) with an extensive history of clinical efficacy; it acts by blocking prostaglandin synthesis by inhibiting cycooxygenase 1 and 2 in the arachidonic acid
- The bromine moiety in bromfenac enhances lipophilicity and facilitates penetration throughout ocular tissues 2-3
- Bronuck® (bromfenac sodium ophthalmic solution) 0.1% was initially approved in Japan in July 2000 and was subsequently approved for the treatment of blepharitis, conjunctivitis, scieritis (including episcleritis) and post-operative inflammation⁴
- * Xibrom*** (bromfenac ophthalmic solution) 0.09%, administered twice daily, was approved by the Food and Drug Administration (FDA) on March 24, 2005 for the treatment of patients with post-cateract coular inflammation, and in January 2006 for the treatment of ocular pain following cataract surgery.
- ⊗ Bromday™ (bromfenac onythalmic solution) 0.09% administered once daily, was approved by the FDA on October 16, 2010 for the treatment of postoperative inflammation and reduction of ocular pain in patients who
- Based on extensive post-marketing experience and data from clinical trials, bromfenac ophthalmic solution has demonstrated a favorable
- · The advanced formulation of bromfenac facilitates intraocular penetration, thereby allowing a lower medication load while maintaining clinical efficacy with once daily dosing

Purpose

* To evaluate in a post-hoc analysis the reduction of ocular inflammation to 0 or trace anterior chamber inflammation of advanced formulation, low-concentration, bromfenac ophthalmic solution dosed once daily compared to placebo following cataract surgery in 2 integrated clinical trials.

Stedy Design and Subjects

- * Phase 3, placebo-controlled, randomized, double-masked, multi-
- × 440 subjects randomized (222 in the bromfenac group, 218 in the placebo group)at 39 clinical sites
- Eligible subjects were scheduled for a unilateral cataract surgery (phacoemulsification or extracapsular) with PCIOL implantation

Screening Phase: Days -8 to -1

- Subjects were assigned to receive either bromfenac ophthalmic solution or placebo dosed QD
- opininamic summon or placebox dose Qu Subjects must have met inclusion and exclusion criteria to be eligible for clinical trial Primary efficacy endpoint was clearance of ocular inflammation [Summed Ocular Inflammation Score (SOIS) =
- Secondary efficacy endpoint was proportion of subjects with trace inflammation (SOIS= 0-0.5)



Treatment Phase: Day -1 to Day 15

- Subjects began dosing on Day -1 (~ 24 hours before surgery) Subjects returned to the office on Day 1 for evaluation of Safety and efficacy
 Subjects returned to the office on Day 3±1 for evaluation of
- Subjects returned to the office on Day 8±1 for evaluation of
- -Subjects returned to the office on Day 8±1 for evaluation of safety and efficacy -Discontinued test agent on day 14 and subjects returned to the office on Day 15±1 for evaluation of safety and efficacy



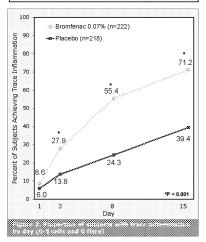
Follow-up Phase: Day 22+3 or 7+3 Days After Final Dose

Subjects returned to the office on Day 22+3 or 7+3 days after

Age (Years)		
Mean (SD)	68.4 (10.70)	68.5 (9.68)
Sex		
Female	141 (63.5.)	146 (67.0%)

Results

Anterior Chamber Cells		Anterior Chamber Flare		
Grade	Cell Count	Grade	Flare Count	
State	Cell Count	Crace	Time Codic	
0	0	0	Complete absence	
1	1-5 cells (trace)			
2	6-15	1	Very slight (barely visible)	
3	16-25	2	Moderate (iris and lens clear)	
4	26-50	3	Marked (iris and lens hazy)	
5	> 50	4	Intense (fibrin clot)	



Compliance and Early Discontinuation

Percent Compliance	Bromfenac (n = 222)	Placebo (n = 218)	
Mean ¹ Early Discontinuations	91.21%	75.98%	
Subjects who discontinued test agent early	34 (15.3%)	96 (44.0%)	
Due to lack of efficacy	7 (3.2%)	52 (23.9%)	

1 % Compliance = 100 x number of doses received / 16

Adverse Event	Bromlenac	Placebo	
C. L	(n = 212)	(n = 204)	
Subjects reporting an AE affecting the study eye or both eyes	14 (6.6%)	43 (21.1%	
Eye Pain	6 (2.8%)	16 (7.8%)	
Anterior chamber inflammation	5 (2.4%)	11 (5.4%)	
Conjunctival hyperemia	2 (0.9%)	8 (3.9%)	
Photophobia	1 (0.5%)	8 (3.9%)	
Corneal edema	1 (0.5%)	5 (2.5%)	
Lacrimation increased	1 (0.5%)	5 (2.5%)	
Foreign body sensation	O.	5 (2.5%)	

Cystoid Machiar Edoma (CME)/Manular Edama (ME)

> The incidence of CME/ME was 0.5% (1/212) in the bromfenac group compared with 2.0% (4/204) in the placebo group.

Conclusions

Ocular hyperemia

Safety

- Advanced formulation, low-concentration bromfenac ophthalmic solution dosed once daily inflammation associated with cataract surgery.
- Once daily bromfenac ophthalmic solution 0.07% was approved on April 5th, 2013 by the U.S. Food and Drug Administration (FDA) as PROLENSA™6

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