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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**



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

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Kirchnois Subjects undergoing inflateral cataract surgery (phocoemulalification or extraospisal cataract extraction) with posterior chamber IOL implantation were randomized to bether low-concentration, modified bromfence cotheration (m=222) or placebo (m=218). Droce daily downsy began 1 day before cataract (m=222) or placebo (m=218). Droce daily downsy began 1 day before cataract constructions of the placebook pressure, and dilated funduscopic examination). Statistical significance was determined using a Fisher's exact test.

Newtotis In the intent-to-treat population, subjects had a mean age of 68.0 years, were predominantly Causasian (74.9%), and included a higher percentage of female subjects (65.2%). Beseline characteristics were similar across treatment groups. A significantly higher proportion of subjects achieved trace outsinflammation in the bromfense group compared to placebase series, was Day 3 (27.9% vs. 13.9%, p.e.00008), continued on Day 8 (35.4% vs. 24.3%, p.e. 0.0001), and through Day 15 (7.2% vs. 33.4%), p.e. 0.0001. Compared to placebb low-concentration, modified broffense ophthalms solution desed once daily produced a lower overall incidence of coulor solverse 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 cyclooxygenase 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, scleritis (including episcleritis) and post-operative inflammation[†]
- * 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-cataract coular inflammation, and in January 2006 for the treatment of ocular pain following cataract surgery?
- Bromday™ (homefenac ophthalmic 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

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* 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.

Study 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
- 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 (\sim 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



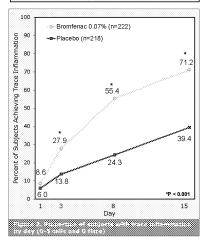
Follow-up Phase : Day 22+3 or 7+3 Days After Final Dose

Subjects returned to the office on Day 22+3 or 7+3 days after uation of test agent for termination evaluat

| 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 | |
| 0 | 0 | 0 | Complete absence | |
| 1 | 1-5 cells (trace) | | | |
| 2 | 6-15 | 1 | Very slight (barely visible) | |
| 3 | 16-25 | 2 | Moderate (ins 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: 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 | Bromfenac (n = 212) | Placebo (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 | 0 | 5 (2.5%) |
| Ocular hyperemia | 0 | 4 (2.0%) |

Cystold Machiar Edoma (CME)/Manular Edoma (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

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

- Brom (by " [back age in set]], Frien, Ch. (117). Planm about 564, Inc.; 2010. From (bill, Tubb) 7. In Hardens 20., Limit Cell, Exclided 769, of all old. Goodnam Pharmacological Easts of Therappuellat. (bit et. New York: McCire-Hill; 1996;141– 84 kilayan Ch. Patterno Hill, Sprot, Cell, et al. J Double Pharmacol Therappuellat. Set kilayan Ch. Patterno Hill, Sprot, Cell, et al. J. Order Pharmacol Therappuellat. 10. Domescribed 150, Domescribed 2. Jac Ophthalmod (150, 2006;46):21–21. Domescribed 150, Domescribed 2. Jac Ophthalmod (150, 2006;46):21–21.

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