



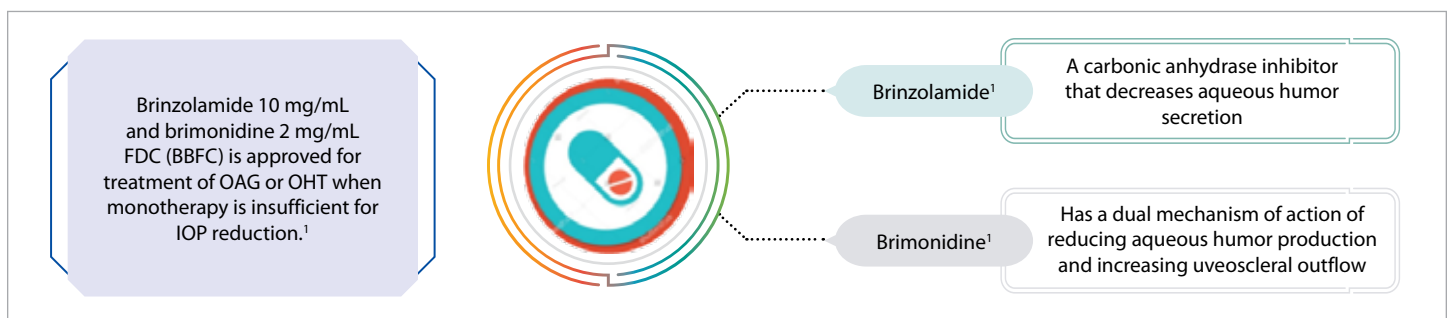
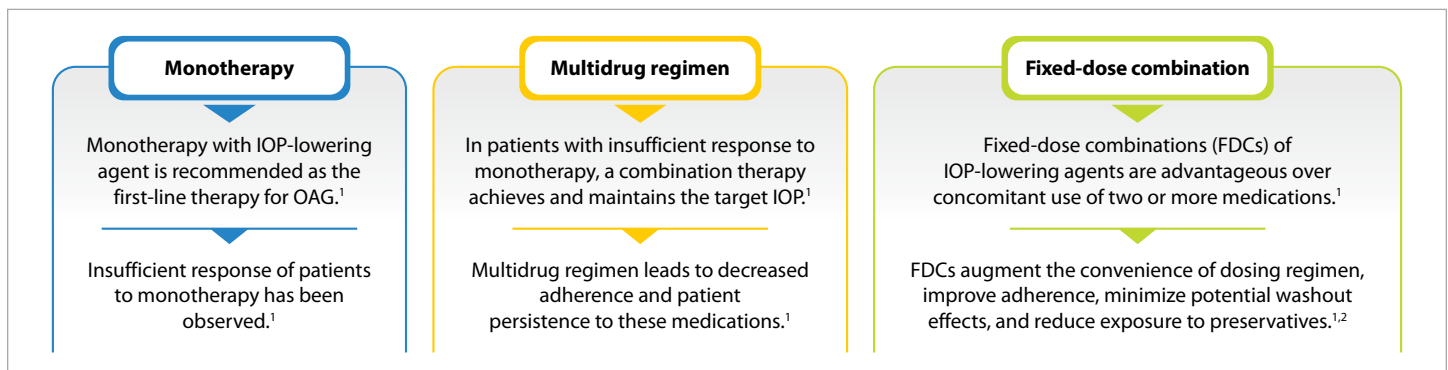
GLAUCOMA COMMUNIQUE

BBFC comparable to concomitant administration of individual components for lowering IOP

In open-angle glaucoma patients, twice-daily BBFC demonstrated comparable efficacy and safety to that of concomitant administration of individual brinzolamide and brimonidine in lowering IOP

Open-angle glaucoma (OAG) is considered a common cause of irreversible blindness globally. Ocular hypertension (OHT) refers to raised intraocular pressure (IOP) in patients without detectable glaucomatous damage.¹ Intraocular pressure (IOP) reduction slows glaucoma progression and reduces the associated risk of vision loss.^{1,2} Although monotherapy with IOP-lowering agents is recommended as the first-line therapy for OAG patients, during the longer treatment, glaucoma patients require more than one active IOP-lowering molecule to reach the target IOP and prevent glaucomatous progression.^{1,3}

Fixed-dose combination therapy lowers IOP in OAG



Efficacy of BBFC over concomitant use of brinzolamide and brimonidine

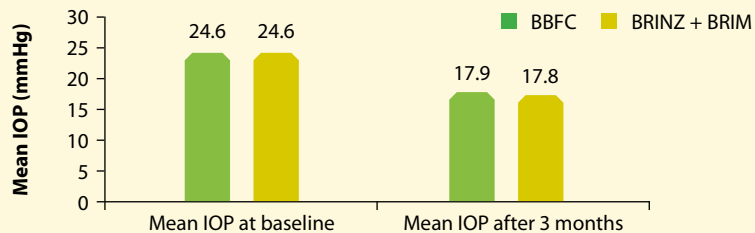


A prospective, Phase III, randomized, observer-masked, active-controlled study assessed the efficacy and safety of BBFC versus concomitant administration of brinzolamide 10 mg/mL and brimonidine 2 mg/mL in patients with OAG or OHT for 3 months¹

<p>Study participants¹</p> <p>Patients (mean age 52.4 ± 16.25 years; females 55.9%) diagnosed with OAG or OHT who showed insufficient response to monotherapy or were on multiple IOP-lowering medications</p>	<p>Interventions¹</p> <p>Patients were randomized 1:1 to either BBFC or to brinzolamide and brimonidine given concomitantly (BRINZ + BRIM), dosed twice-daily in both eyes for 3 months</p>
<p>Outcomes measured¹</p> <ul style="list-style-type: none"> • Efficacy endpoints: Mean change in diurnal IOP from baseline to 3 months • Safety endpoints: Cardiovascular parameters, fundus, best-corrected visual acuity, slit-lamp examination, visual field loss, and adverse events 	<p>Efficacy and safety analysis sets¹</p> <ul style="list-style-type: none"> • Per-protocol set: Primary efficacy analysis patients (n = 349; BBFC: 172; BRINZ + BRIM: 177) • Safety analysis set: All patients who received at least one dose of study medication (n = 379; BBFC: 188; BRINZ + BRIM: 191)

Primary efficacy outcomes

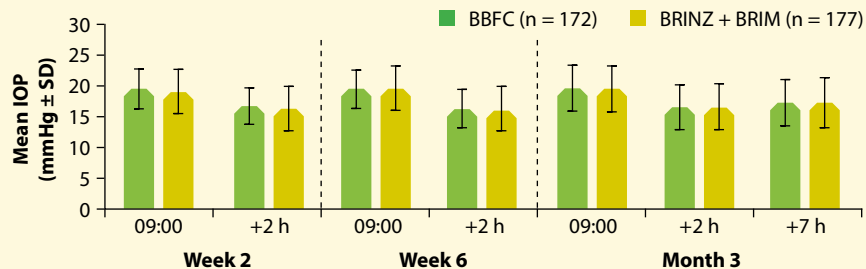
The least square mean change in diurnal IOP from baseline to 3 months was -7.2 ± 0.34 mmHg on BBFC treatment and -7.3 ± 0.34 mmHg on BRINZ + BRIM treatment.



BRINZ + BRIM: Brinzolamide + brimonidine.

Supportive efficacy outcomes

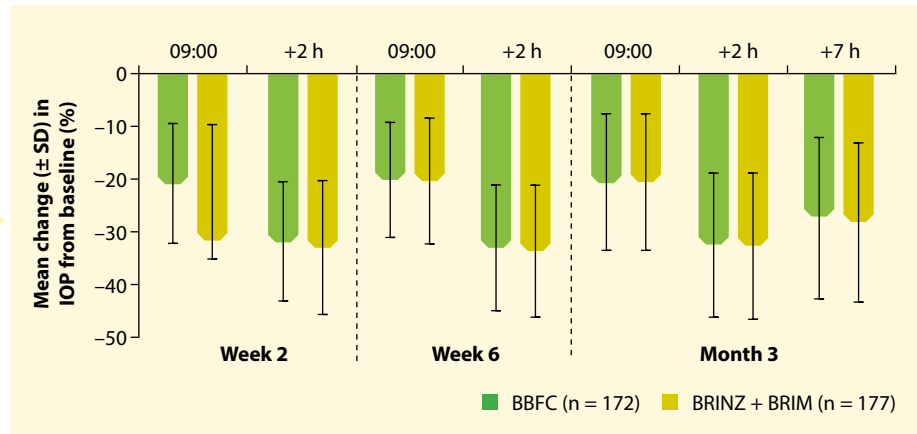
On comparing the change in mean IOP at three time points for both BBFC and BRINZ + BRIM treatment, greatest mean reductions in IOP were observed at the +2 h time point at each visit.



BRINZ + BRIM: Brinzolamide + brimonidine; SD: Standard deviation.



The percentage reduction in IOP ranged from 20.5–33.3% with BBFC and 20.7–33.9% with BRINZ + BRIM.



BRINZ + BRIM: Brinzolamide + brimonidine; SD: Standard deviation.

- At 3 months, mean diurnal IOP <18 mmHg was observed in 53.3% of patients on BBFC and 55% of patients on BRINZ + BRIM.
- Greater number of patients on BBFC treatment had a >20%, >25%, and >30% diurnal IOP reduction from baseline to 3 months compared to patients on BRINZ + BRIM.

Safety outcomes

Overall, 50% of patients on BBFC treatment and 46.6% of patients on BRINZ + BRIM treatment experienced ≥1 adverse event.

Adverse events reported in BBFC and BRINZ + BRIM groups

Adverse events	Patients on BBFC (%)	Patients on BRINZ + BRIM (%)
Ocular AE	28.7	22.5
Conjunctival hyperemia	6.4	6.8
Nonocular	32.4	30.4

BRINZ + BRIM: Brinzolamide + brimonidine.

Twice-daily dose of BBFC effective in lowering IOP in OAG patients: Supported by clinical evidences

- A prospective, Phase III, randomized, observer-masked, active-controlled study demonstrated reduction in IOP by 7.2 mmHg on administration of twice-daily BBFC, which was clinically significant with the potential to reduce glaucoma progression.¹
- A mean diurnal IOP of <18 mmHg at 3 months was observed in 53.3% of patients. The target IOP reduction was not achieved with monotherapy or with other multiple IOP-lowering agents.¹
- Good diurnal IOP control was achieved with BBFC treatment at each of the three time points.¹
- A prospective, Phase 3 study demonstrated similar results of non-inferiority of BBFC twice-daily dose compared to BRINZ + BRIM twice-daily for reducing elevated IOP in patients with OAG or OHT.⁴
- BBFC treatment was not associated with any additional safety risks to patients relative to the known risks of the individual components.⁴

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Benefits of BBFC treatment in OAG or OHT

Presence of less preservative in BBFC compared with the levels present individually in BRINZ and BRIM used concomitantly may reduce the risk of ocular surface damage, intolerance, and associated non-compliance and non-adherence¹

BBFC is the only FDC without a beta-blocker, and is therefore considered a suitable option for patients with OAG or OHT who have comorbid conditions where beta-blockers are contraindicated or in those who are susceptible to adverse drug reactions¹

Clinical implications

- ▶ BBFC administered twice-daily is non-inferior to BRINZ + BRIM in terms of IOP-lowering efficacy in patients with OAG or OHT. The safety profile of BBFC is comparable to that of the individual components, BRINZ and BRIM.
- ▶ In patients with OAG or OHT requiring additional IOP-lowering therapy, BBFC is an efficacious option.

References

1. Wang N, Lu DW, Pan Y, et al. Comparison of the intraocular pressure-lowering efficacy and safety of the brinzolamide/brimonidine fixed-dose combination versus concomitant use of brinzolamide and brimonidine for management of open-angle glaucoma or ocular hypertension. *Clin Ophthalmol.* 2020;14:221-30.
2. Wy S, Kim YK, Jeoung JW, et al. Comparison of two combinations of maximum medical therapy for lowering intraocular pressure in primary open-angle glaucoma. *Korean J Ophthalmol.* 2020;34(1):19-26.
3. Kothy P, Hollo G. Real-life experience of using brinzolamide/brimonidine fixed drop combination in a tertiary glaucoma centre. *Int Ophthalmol.* 2020;40(2):377-83.
4. Gandolfi SA, Ilm J, Sanseay AC, et al. Randomized trial of brinzolamide/brimonidine versus brinzolamide plus brimonidine for open-angle glaucoma or ocular hypertension. *Adv Ther.* 2014;31(12):1213-27.

In Open angle glaucoma and Ocular hypertension

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