Population: N = 403

**Primary endpoint:** 

CPFS (investigator assessed), OS, CR, ORR, DOR, and safety.

**Eligibility:** Patients aged ≥18 years with R/R FL or MZL following ≥1 prior treatment with an anti-CD20–containing CIT regimen, ≥1 measurable site of disease, and ECOG PS of 0 or 1

## STUDY DESIGN

## 1:1 randomization

Treatment arm (n = 202)

**Ibrutinib** | 560 mg/day

Until PD, unacceptable toxicity, or study end

Control arm (n = 201)



Placebo

Until PD, unacceptable toxicity, or study end



Bendamustine (28-day cycles) | 90 mg/m<sup>2</sup> | Days 1 and 2 of Cycles 1 -6





Rituximab (28-day cycles) | 375 mg/m<sup>2</sup> | Day 1 of Cycles 1-6

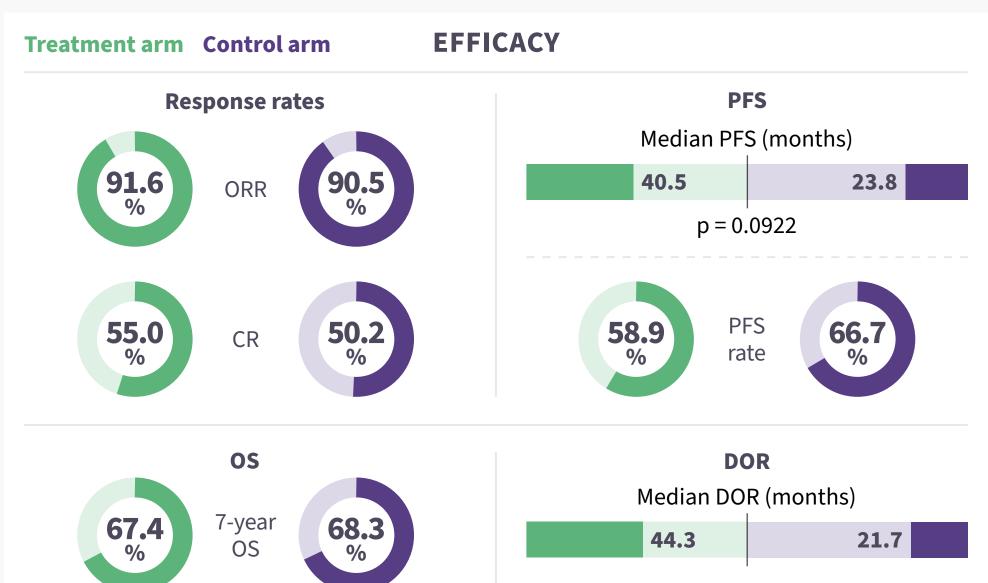
OR

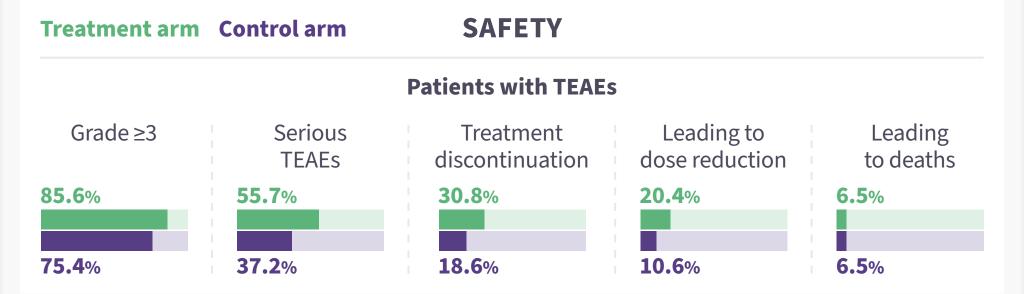
R-CHOP (21-day cycles)

Rituximab, 375 mg/m<sup>2</sup> | Cyclophosphamide, 750 mg/m<sup>2</sup> | Doxorubicin, 50 mg/m<sup>2</sup> | Vincristine, 1.4 mg/m<sup>2</sup>, and 100 mg | Day 1 of Cycles 1–6

Prednisone, 100 mg | Days 1-5 of Cycles 1-6

## Median follow-up: 84 months





This phase III SELENE study demonstrated that adding ibrutinib to CIT did not significantly improve PFS and yielded similar OS and response rates compared with the placebo plus CIT arm; the safety profile was consistent with previous studies. These data provide insights into the use of BTKis in R/R FL or MZL that could inform future studies.

**Abbreviations:** BR, bendamustine rituximab; BTKi, Bruton's tyrosine kinase inhibitor; CIT, chemoimmunotherapy; CR, complete response; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group Performance Status; FL, follicular lymphoma; IV, intravenous; NR, not reached; ORR, overall response rate; OS, overall survival; MZL, marginal zone lymphoma; PD, progression of disease; PFS, progression-free survival; R-CHOP, rituximab, cyclophosphamide, doxorubicin, vincristine, and prednisone; R/R, relapsed/refractory; TEAE, treatment-emergent adverse event.

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