

MAHOGANY: A Phase 3 Trial of Zanubrutinib+Anti-CD20 Antibodies vs Lenalidomide+Rituximab in Relapsed/Refractory Follicular or Marginal Zone Lymphoma

Poster P02

José Mário Mariz,¹ Antonio Salar,² Judith Trotman,³ Clémentine Sarkozy,⁴ Yuqin Song,⁵ Laurie Sehn,⁶ Loretta J. Nastoupil,⁷ Wanhua Zhang,⁸ Pierre Fustier,⁹ Richard Delarue,⁹ Pier Luigi Zinzani¹⁰

¹CUF Porto Hospital, Porto, Portugal; ²Hospital Virgen de la Arrixaca, Murcia, Spain; ³Concord Repatriation General Hospital, University of Sydney, Concord, NSW, Australia; ⁴Institut Curie, Saint-Cloud Hospital, Paris, France; ⁵Peking University Cancer Hospital and Institute, Beijing, China; ⁶University of British Columbia, Vancouver, BC, Canada; ⁷The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ⁸BeiGene (Beijing) Co., Ltd., Beijing, China; ⁹BeiGene Switzerland, GmbH, Basel, Switzerland; ¹⁰University of Bologna, Bologna, Italy

BACKGROUND

- Relapsed/refractory (R/R) disease is common in patients with follicular lymphoma (FL) and marginal zone lymphoma (MZL)
- Treatment of FL and MZL largely relies on immunochemotherapy, and additional novel therapies are greatly needed
- Zanubrutinib is a next-generation, potent, specific Bruton tyrosine kinase (BTK) inhibitor approved in the EU and US for the treatment of chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL), Waldenström macroglobulinemia (WM), and MZL^{1,2} and in the US for previously treated mantle cell lymphoma¹
 - Zanubrutinib demonstrated clinically meaningful benefit (not statistically significant) in patients with WM³ and superior efficacy over ibrutinib in patients with R/R CLL/SLL⁴
 - In both WM³ and CLL/SLL,⁴ zanubrutinib was better tolerated than ibrutinib
- Previous findings have suggested that zanubrutinib may lead to high response rates and durable responses in R/R MZL and FL^{5,6}
 - In the phase 2 MAGNOLIA study in R/R MZL (NCT03846427), zanubrutinib led to an overall response rate (ORR) of 68.2% (complete response [CR] rate, 25.8%) as assessed by an independent review committee (IRC); the progression-free survival (PFS) rate at 24 months was 71% (Figure 1)⁵
 - In the randomized phase 2 ROSEWOOD study in R/R FL (NCT03332017), zanubrutinib + obinutuzumab led to an IRC-assessed ORR of 69.0% (CR rate, 39.3%); the PFS rate at 24 months was 54.8% (Figure 2)⁶

Figure 1. PFS by IRC in the Phase 2 MAGNOLIA R/R MZL Trial⁵

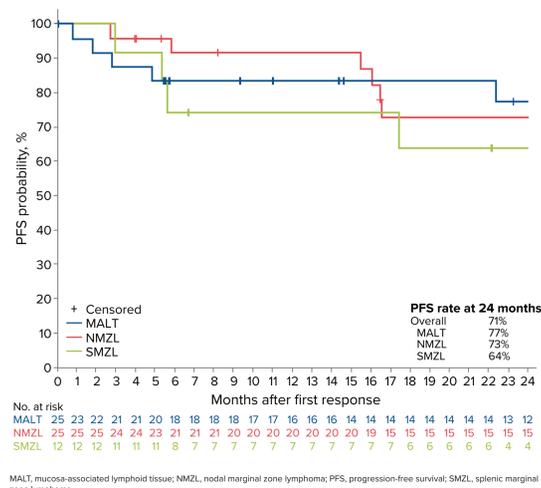
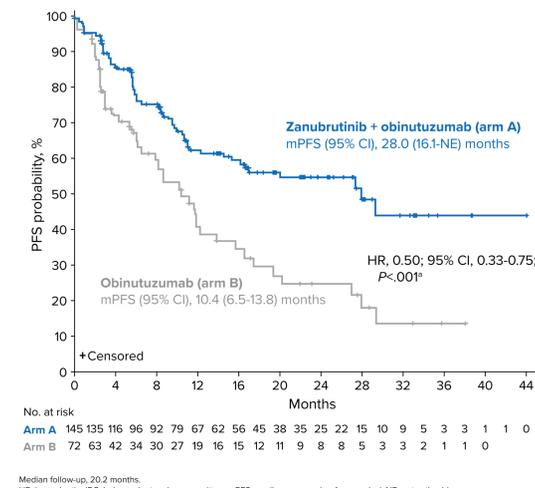


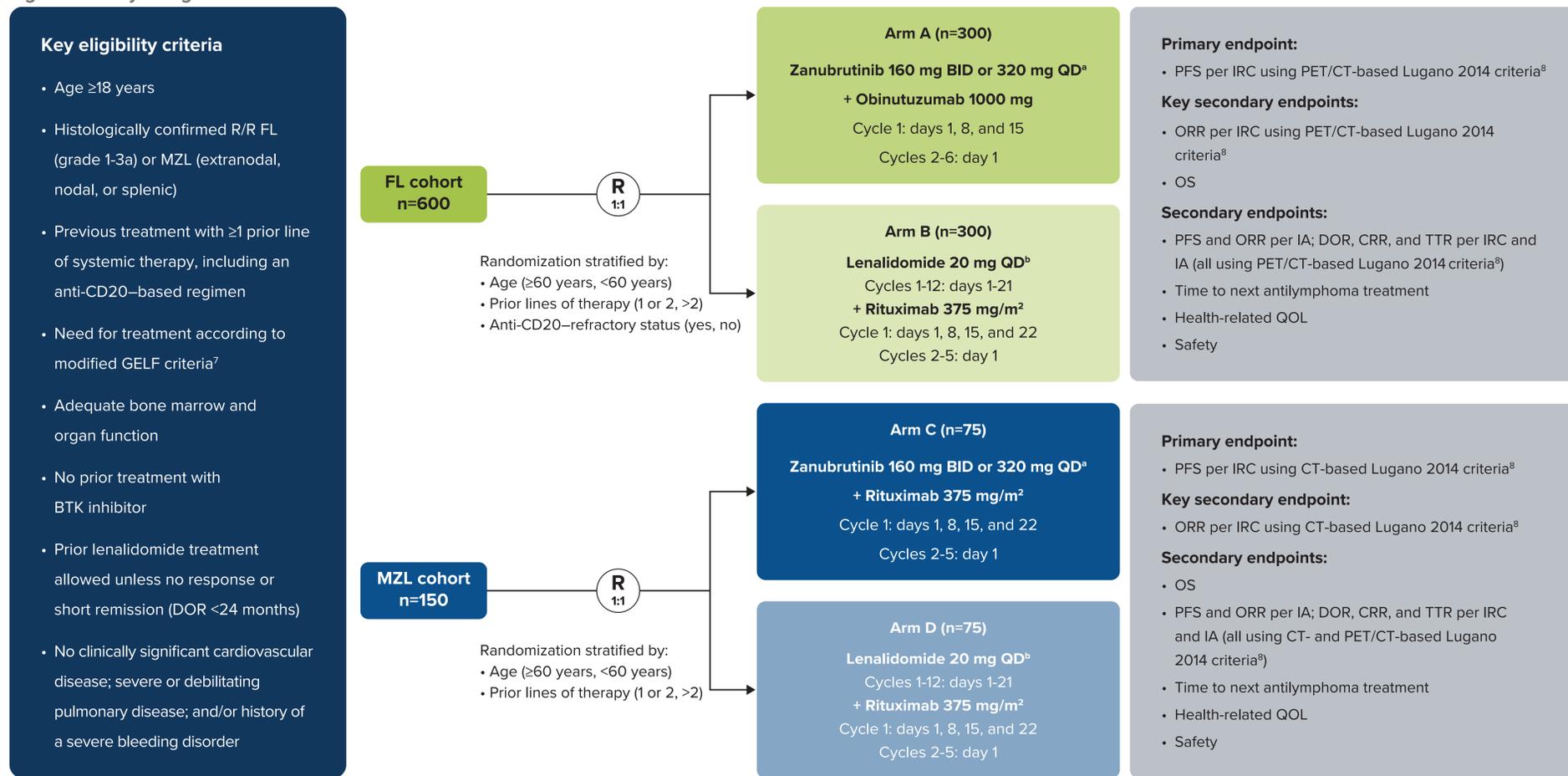
Figure 2. PFS by IRC in the Phase 2 ROSEWOOD R/R FL Trial⁶



METHODS

- MAHOGANY (BGB-311-308; NCT05100862) is a randomized (1:1), open-label, multicenter phase 3 trial evaluating zanubrutinib combined with the anti-CD20 antibody obinutuzumab in patients with R/R FL or rituximab in patients with R/R MZL vs lenalidomide combined with rituximab (Figure 3)

Figure 3. Study Design



One cycle is 28 days. BID, twice daily; CR, complete response rate; CT, computed tomography; DOR, duration of response; FL, follicular lymphoma; IA, investigator assessment; IRC, independent review committee; MZL, marginal zone lymphoma; ORR, overall response rate; OS, overall survival; PET, positron emission tomography; PFS, progression-free survival; QD, once daily; QOL, quality of life; R, randomized; R/R, relapsed/refractory; TTR, time to response. ^aAfter completion of combination treatment, patients will receive zanubrutinib monotherapy until confirmed disease progression, unacceptable toxicity, withdrawal of consent, or study termination, whichever comes first. ^bPatients with creatinine clearance ≥30 mL/min but <60 mL/min will receive 10 mg QD. If the patient remains free of lenalidomide-related grade 3 or 4 toxicities for 22 cycles, the dose may be increased to 15 mg QD on days 1-21 of a 28-day cycle at the discretion of the treating physician from cycles 3-12.

Study status

- Enrollment for MAHOGANY began in March 2022, and the study is currently recruiting
- Approximately 300 study sites in 25 countries are planned (Figure 4), with an estimated enrollment of 750 patients

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DISCLOSURES

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Figure 4. Planned Study Sites

