

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

Loretta J. Nastoupil,¹ Yuqin Song,² Laurie H. Sehn,³ Clémentine Sarkozy,⁴ Pier Luigi Zinzani,⁵ Antonio Salar,⁶ Jun Zhang,⁷ Sha Huang,^{7,8} Julie Wang,^{7,8} Richard Delarue,⁹ Judith Trotman¹⁰

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

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 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% (complete response [CR] rate, 26%) 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% (CR rate, 39%); the PFS rate at 24 months was 55% (Figure 2)⁶

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

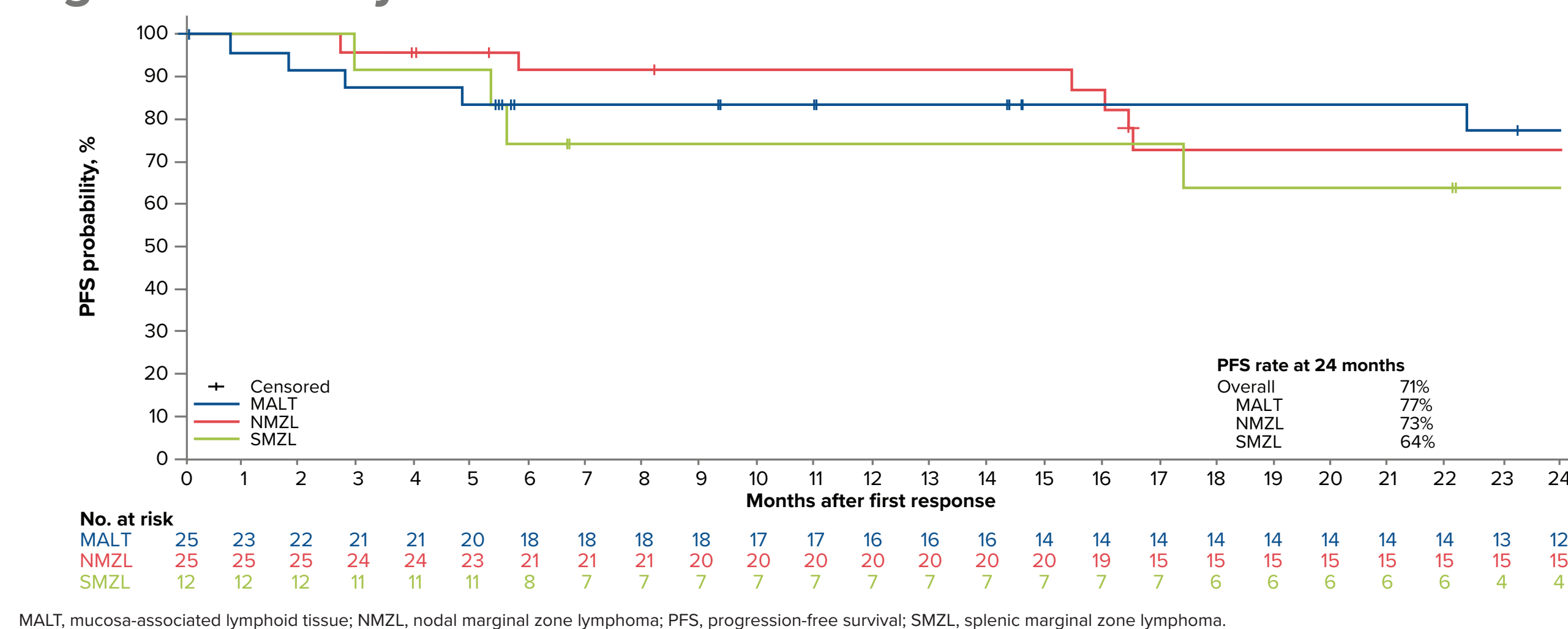
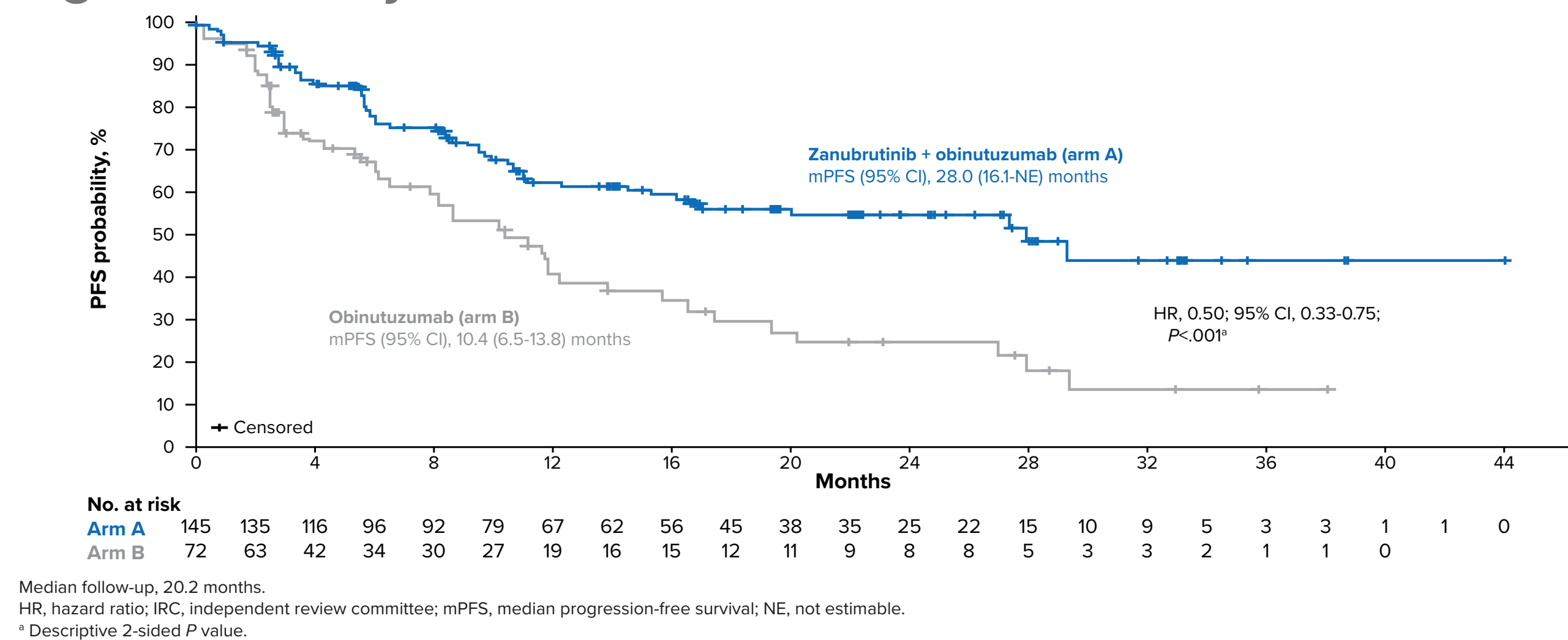


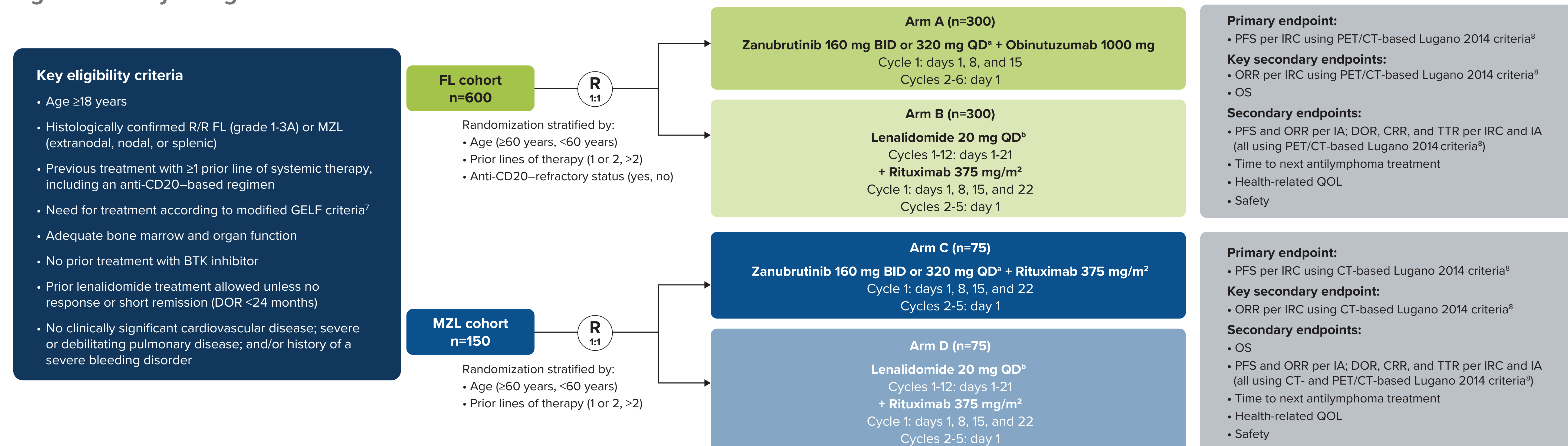
Figure 2. PFS by IRC in the Phase 2 ROSEWOOD R/R FL Trial⁶



METHODS

- MAHOGANY (BGB-3111-308; 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)

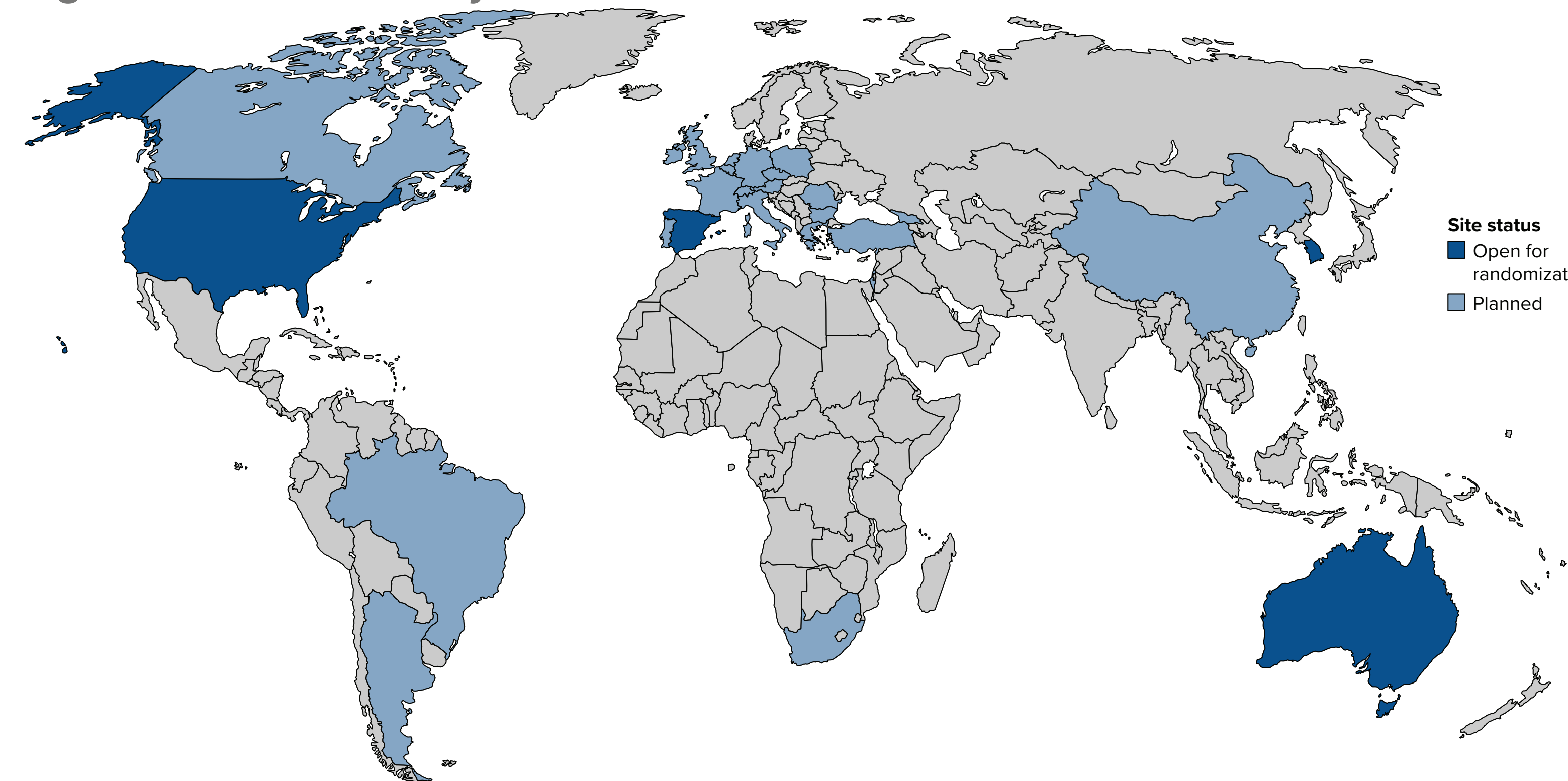
Figure 3. Study Design



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

Figure 4. Planned Study Sites



REFERENCES

1. Brukinsa (zanubrutinib). Prescribing information. BeiGene, Ltd; 2023.
2. Brukinsa (zanubrutinib). Summary of product characteristics. BeiGene Ireland, Ltd; 2023.
3. Tam CS, et al. *J Clin Oncol*. 2022;40(suppl 16). Abstract 7521.
4. Brown JR, et al. *N Engl J Med*. 2023;388(4):319-332.
5. Trotman J, et al. Presented at: 17th International Conference on Malignant Lymphoma; June 13-17, 2023; Lugano, Switzerland. Abstract 284.
6. Zinzani PL, et al. *J Clin Oncol*. Published online July 28, 2023. doi:10.1200/JCO.23.00775.
7. Brice P, et al. *J Clin Oncol*. 1997;15(3):1110-1117.
8. Cheson BD, et al. *J Clin Oncol*. 2014;32(27):3059-3068.

DISCLOSURES

LJN received research funding from Janssen Biotech, Genentech/Roche, Epizyme, IGM Biosciences, Novartis, Caribou Biosciences, Gilead Sciences, Allogene Therapeutics, Bristol Myers Squibb/Celgene, and Takeda; honoraria from Gilead/Kite, Novartis, Janssen Oncology, TG Therapeutics, Bristol Myers Squibb, ADC Therapeutics, MorphoSys, Epizyme, Genmab, Takeda, Genentech/Roche, Caribou Biosciences, Medscape, Neil Love, and PeerView; and travel support from Roche/Genentech; and had a consulting or advisory role with LRF Scientific, SIRAPT, Interius Bio, ADC Therapeutics, AbbVie, Genentech, MEI, Denovo, Takeda, Caribou Biosciences, Incyte, and Janssen. JS has nothing to disclose. LHS had a consulting or advisory role with AbbVie, Seagen, Janssen, Amgen, Roche/Genentech, Gilead Sciences, Kite, Merck, Teva, TG Therapeutics, AstraZeneca, Incyte, Sandoz-Novartis, Genmab, Celgene/Bristol Myers Squibb, and BeiGene; honoraria from Amgen, AbbVie, Gilead Sciences, Janssen-Ortho, Kite, Merck, Roche/Genentech, Seagen, Teva, AstraZeneca, Incyte, Sandoz-Novartis, Genmab, Celgene/Bristol Myers Squibb, and BeiGene; and research funding from Roche/Genentech and Teva paid to their institution. CS received honoraria from Amgen, AbbVie, Gilead Sciences, Janssen-Ortho, Kite, Merck, Roche/Genentech, and Incyte; provided expert testimony on behalf of Incyte; and had a consulting or advisory role with Janssen, GSK, Incyte, and Bristol Myers Squibb. PLZ received honoraria from BeiGene, Bristol Myers Squibb, Gilead, Incyte, Kyowa Kirin, MSD, Novartis, Roche, and Takeda. JZ and SH are employees of BeiGene, Bristol Myers Squibb, Gilead, Incyte, Kyowa Kirin, MSD, Novartis, Roche, and Takeda. AS received research funding from AbbVie and Roche; participated in speakers bureaus for BeiGene and Roche; and received travel funds from Kite and Janssen. JZ and SH are employees of BeiGene and own stock in BeiGene. JW is an employee of BeiGene and owns stock in BeiGene and Bristol Myers Squibb. RD has been an employee of Celgene/Bristol Myers Squibb, is an employee of BeiGene, and owns stock in Celgene/Bristol Myers Squibb and BeiGene. JT has received research funding from BeiGene, Janssen, Pharmalytics, Roche, Celgene/Bristol Myers Squibb, and Selectar and has served on an advisory board for BeiGene.

ACKNOWLEDGMENTS

The authors thank the patients and their families, investigators, co-investigators, and the study teams at each of the participating centers. This study was sponsored by BeiGene, Ltd. Medical writing support was provided by Jenna M. Gaska, PhD, and Lise Barnard, PhD, of Articulate Science, LLC, and was supported by BeiGene.



Copies of this poster obtained through Quick Response (QR) code are for personal use only and may not be reproduced without permission from FLASCO and the authors of this poster.