

Efficacy and Safety of Ibrutinib Plus Venetoclax in Patients With Mantle Cell Lymphoma and *TP53* Mutations in the SYMPATICO Study

Wojciech Jurczak, MD, PhD¹, Michael Wang, MD², Marek Trnny, MD³, David Belada, MD⁴, Tomasz Wrobel, MD, PhD⁵, Nllanjan Ghosh, MD, PhD⁶, Mary-Margaret Keating, MD⁷, Tom van Meerten, MD, PhD⁸, Ruben Fernandez Alvarez, MD⁹, Gottfried von Keudell, MD, PhD¹⁰, Catherine Thieblemont, MD, PhD¹¹, Frederic Peyrade, MD¹², Marc Andre, MD¹³, Marc Hoffmann, MD¹⁴, Maoko Naganuma, MSc¹⁵, Edith Szafer-Glusman, PhD¹⁶, Jennifer Lin, MS, MA¹⁷, James P. Dean, MD, PhD¹⁸, Jutta K. Neuenburg, MD, PhD¹⁹, Constantine S. Tam, MD, MBBS¹⁰

¹Maria Sklodowska-Curie National Research Institute of Oncology, Kraków, Poland; ²Department of Lymphoma and Myeloma, The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ³General University Hospital in Prague, Prague, Czech Republic; ⁴4th Department of Internal Medicine - Hematology, Charles University, Hospital and Faculty of Medicine, Hradec Králové, Czech Republic; ⁵Wrocław Medical University, Wrocław, Poland; ⁶Levine Cancer Institute, Atrium Health, Charlotte, NC, USA; ⁷Queen Elizabeth II Health Sciences Centre, Halifax, Nova Scotia, Canada; ⁸Universitair Medisch Centrum Groningen, Groningen, Netherlands; ⁹Hospital Universitario de Cabueñes, Asturias, Spain; ¹⁰Beth Israel Deaconess Medical Center, Boston, MA, USA; ¹¹Université de Paris, Assistance Publique-Hôpitaux de Paris, Hôpital Saint-Louis, service d'hémo-oncologie, Paris, France; ¹²Centre Antoine Lacaze, Nice, France; ¹³CHU UCL Namur, Mont-Godinne, Vovor, Belgium; ¹⁴University of Kansas Cancer Center, Westwood, KS, USA; ¹⁵AbbVie, North Chicago, IL, USA; ¹⁶Peter MacCallum Cancer Centre, Alfred Health and Monash University, Melbourne, Victoria, Australia.

OBJECTIVE

To report efficacy and safety of ibrutinib + venetoclax in patients with *TP53* mutations across cohorts in the SYMPATICO study

CONCLUSIONS

This study represents the largest single-study cohort of patients with mantle cell lymphoma (MCL) and *TP53* mutations reported to date (n=74; relapsed/refractory, n=45; first-line, n=29)

Ibrutinib + venetoclax demonstrated promising efficacy with high complete response rates and durable remissions in patients with MCL and *TP53* mutations

The safety profile of ibrutinib + venetoclax in patients with *TP53* mutations was consistent with the safety profile in the overall study and with the known safety profile of each agent

These results are encouraging in light of the poor responses and shorter survival outcomes with standard chemoimmunotherapy in patients with MCL and *TP53* mutations

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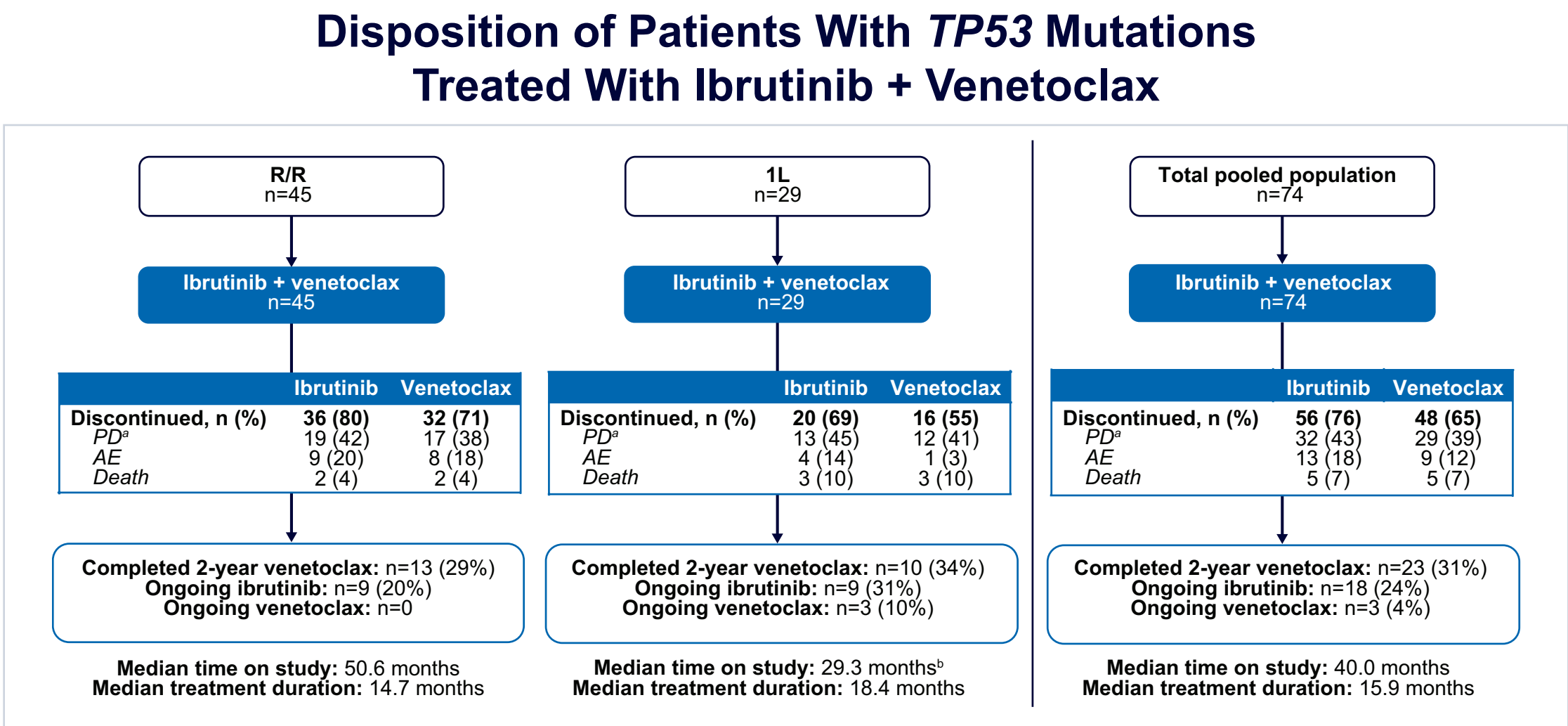
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INTRODUCTION

- Mantle cell lymphoma (MCL) is a subtype of non-Hodgkin lymphoma that has an aggressive clinical course and a poor prognosis¹
- The combination of ibrutinib, a once-daily oral Bruton tyrosine kinase (BTK) inhibitor, and venetoclax, a once-daily oral BCL-2 inhibitor, leverages complementary modes of action and has demonstrated synergistic antitumor activity in preclinical models of MCL^{2,3}
- TP53* mutations occur in 15% to 20% of patients with MCL^{4,5} and confer high risk of early progressive disease (PD) and poor outcomes with standard chemoimmunotherapy⁶
 - To date, data on novel treatment options for these patients are limited to small single-arm analyses⁶
- The phase 3 SYMPATICO study is evaluating ibrutinib + venetoclax in 3 cohorts of patients with MCL
 - Primary analysis of the randomized phase showed superior progression-free survival (PFS) with ibrutinib + venetoclax compared with ibrutinib + placebo in patients with relapsed/refractory (R/R) MCL⁷
- Here, we report efficacy and safety of ibrutinib + venetoclax in 74 patients with *TP53* mutations across cohorts in the SYMPATICO study

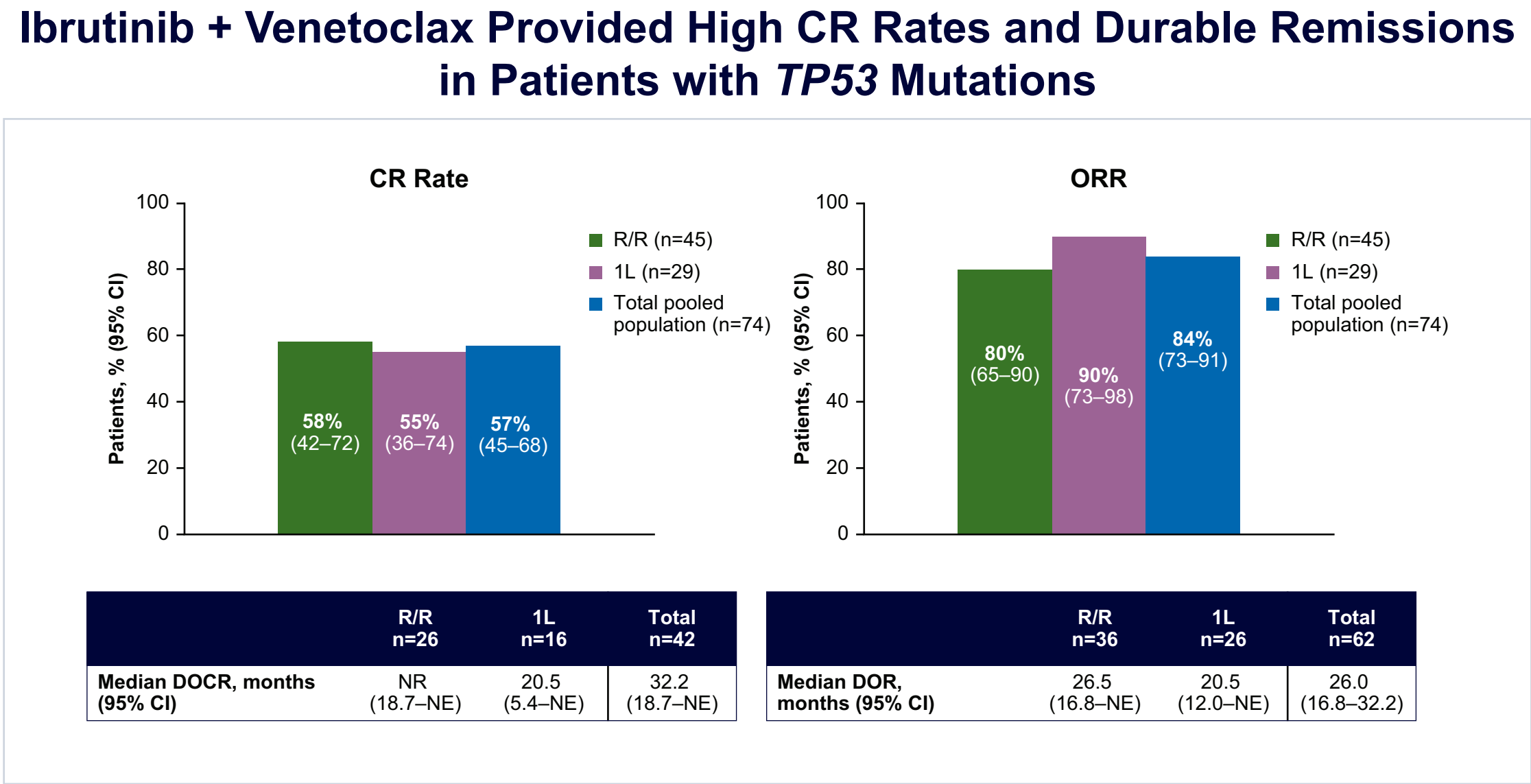
RESULTS



AE, adverse event.
^aPD per protocol criteria or clinical PD.
^bEnrollment in the 1L open-label cohort began after completion of enrollment in the safety run-in and randomization phases.

Baseline Characteristics of Patients With <i>TP53</i> Mutations Treated With Ibrutinib + Venetoclax			
Characteristic	R/R n=45	1L n=29	Total Pooled Population n=74
Age			
Median (range), years	67 (44–82)	66 (41–79)	67 (41–82)
≥65 years, n (%)	28 (62)	18 (62)	46 (62)
ECOG PS, n (%)			
0	25 (56)	15 (52)	40 (54)
1–2	20 (44)	14 (48)	34 (46)
MCL histology, n (%)			
Typical	29 (64)	18 (62)	47 (64)
Blastoid	8 (18)	0	8 (11)
Pleomorphic	3 (7)	5 (17)	8 (11)
Other	5 (11)	6 (21)	11 (15)
Simplified MIPI score, n (%)			
Low risk	7 (16)	5 (17)	12 (16)
Intermediate risk	15 (33)	13 (45)	28 (38)
High risk	21 (47)	11 (38)	32 (43)
Missing	2 (4)	0	2 (3)
Bulky disease, n (%)			
≥5 cm	18 (40)	9 (31)	27 (36)
≥10 cm	3 (7)	3 (10)	6 (8)
Extranodal disease, n (%)	24 (53)	13 (45)	37 (50)
BM involvement, n (%)	22 (49)	25 (86)	47 (64)
Splenomegaly, n (%)	16 (36)	13 (45)	29 (39)

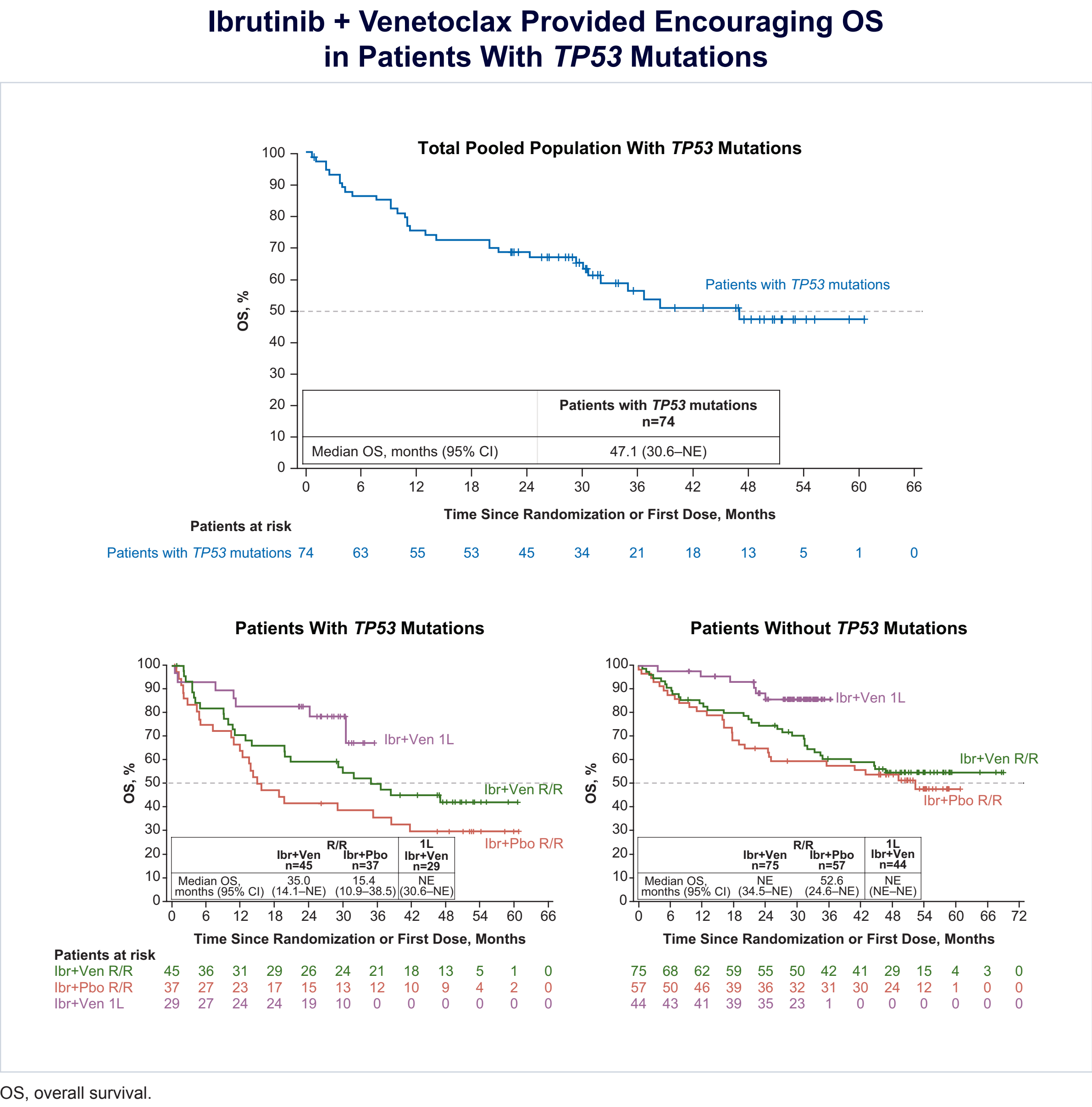
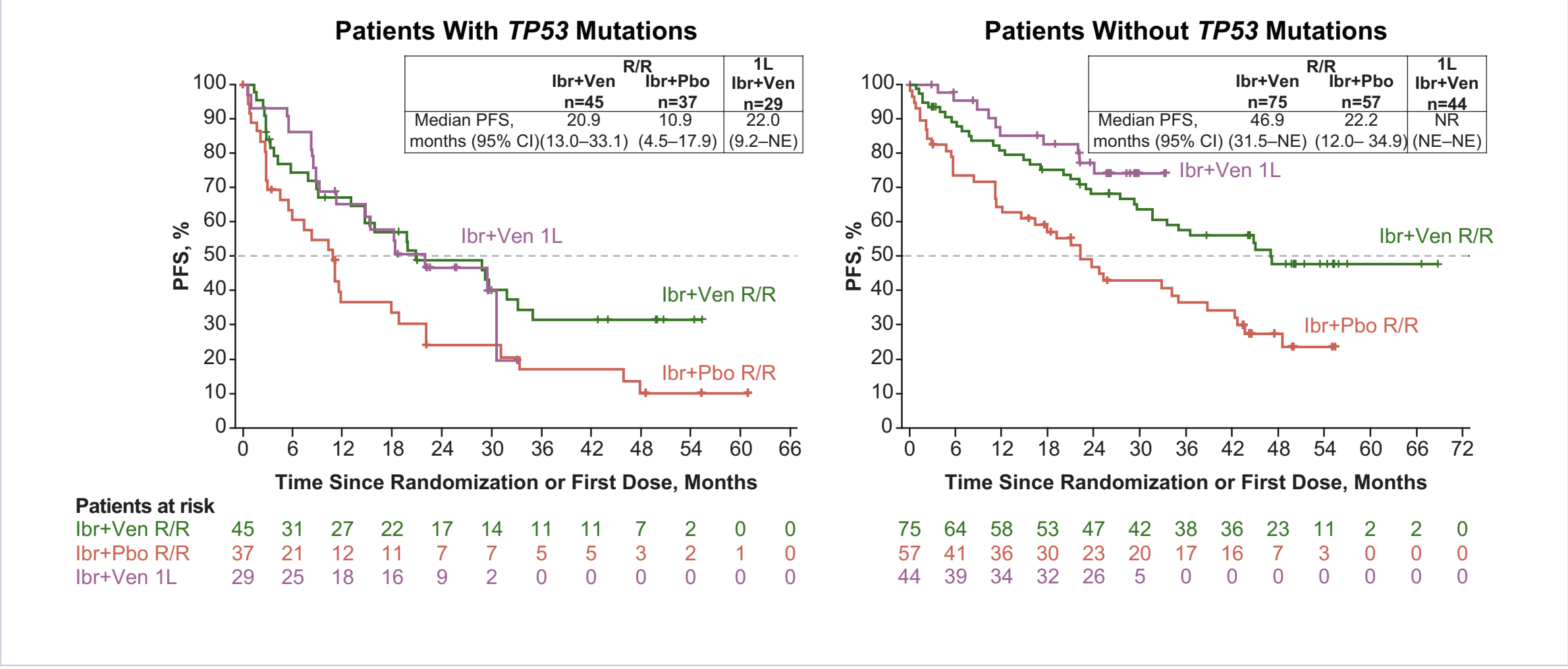
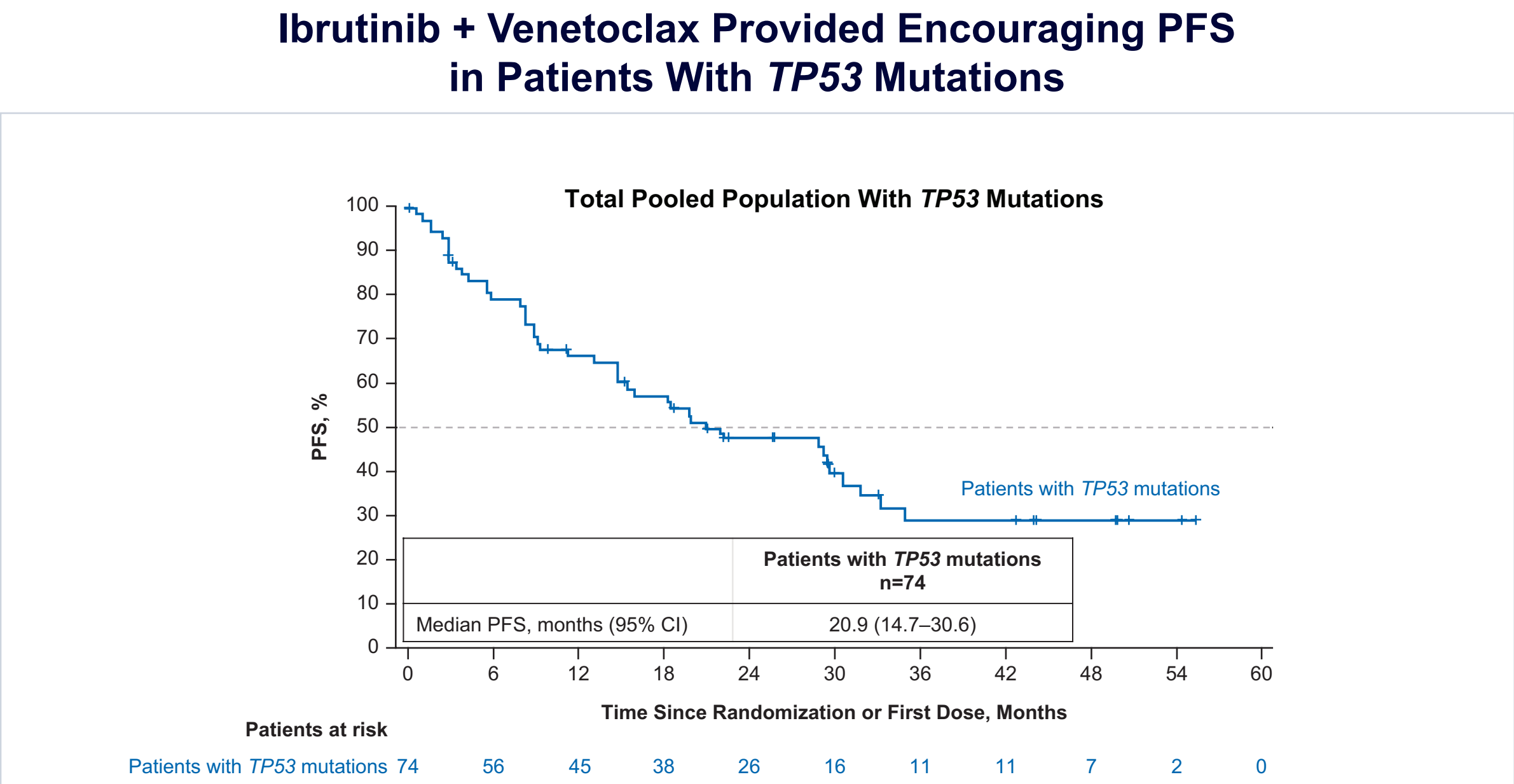
BM, bone marrow; ECOG PS, Eastern Cooperative Oncology Group performance status; MIPI, MCL International Prognostic Index.



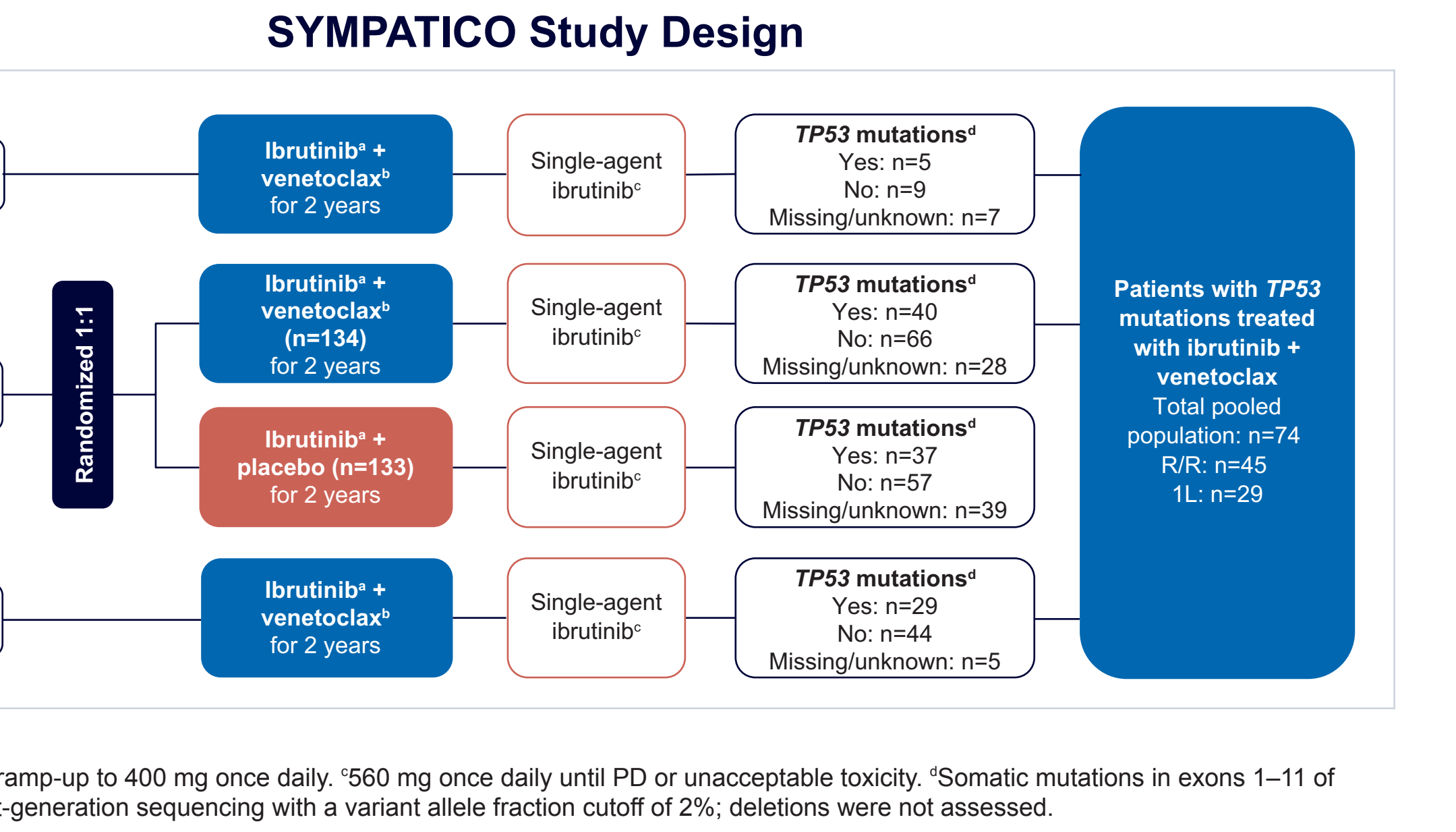
CR, complete response; DOCR, duration of complete response; DOR, duration of response; NE, not estimable; NR, not reached; ORR, overall response rate.

METHODS

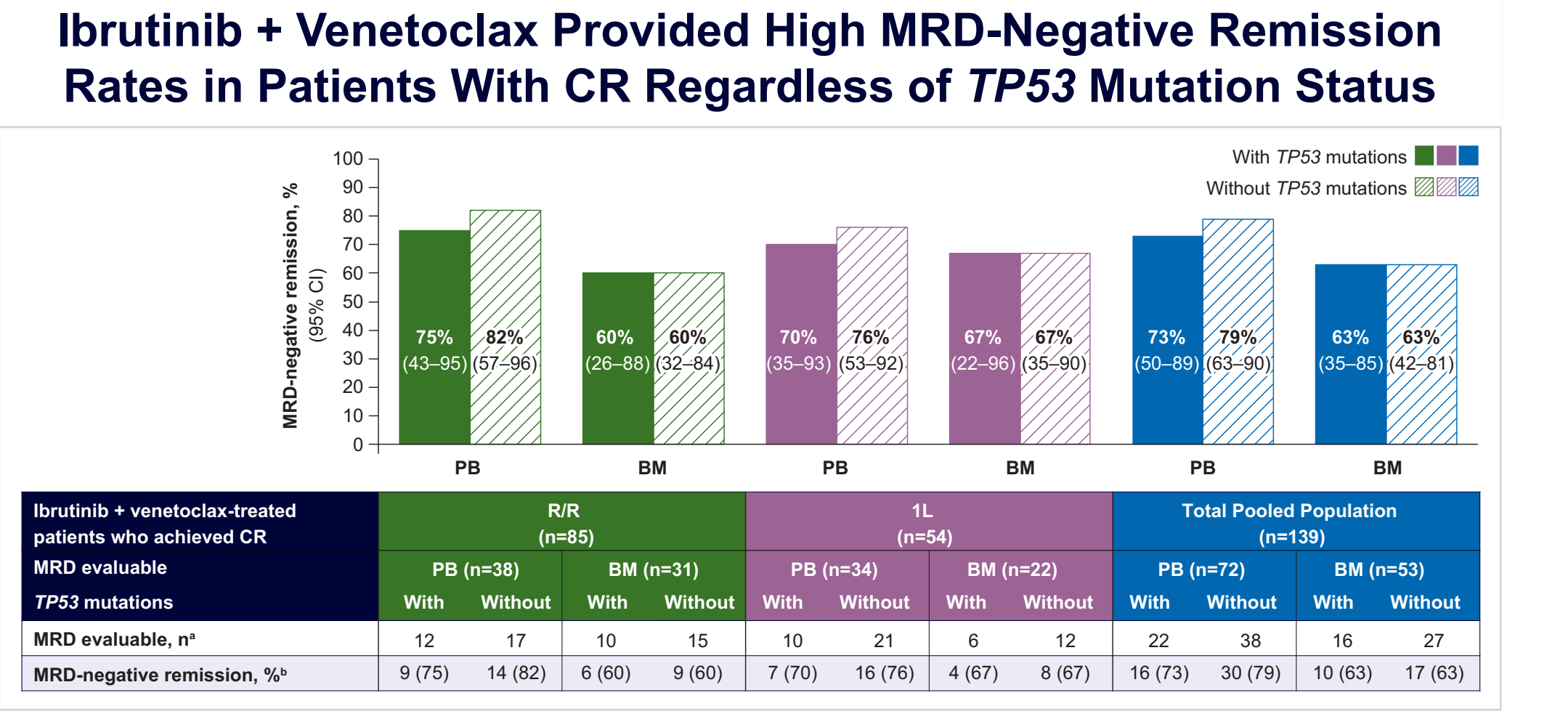
- SYMPATICO (NCT03112174) is a multinational, randomized, double-blind, placebo-controlled, phase 3 study
- Data were pooled across cohorts for patients with *TP53* mutations treated with ibrutinib + venetoclax



OS, overall survival.



- At baseline, ~50% had detectable MCL cells in PB or BM by 8-color flow cytometry
- Among MRD-evaluable patients who achieved a CR, MRD-negative remission rates with ibrutinib + venetoclax were similar for patients with and without *TP53* mutations



1L, first-line; BM, bone marrow; CR, complete response; MCL, mantle cell lymphoma; MRD, minimal residual disease; PB, peripheral blood; R/R, relapsed/refractory.
Threshold for MRD negativity of <0.05% MCL cells.
^aPositive at baseline and post-baseline sample available. ^bMRD-negative remission was defined as MRD negative at documented CR and at confirmatory sample collected 12 weeks later.

Characteristic	R/R n=45	1L n=29	Total Pooled Population n=74
Grade ≥3 AEs	37 (82)	22 (76)	59 (80)
Serious AEs	26 (58)	15 (52)	41 (55)
AEs leading to discontinuation	15 (33)	7 (24)	22 (30)
Ibrutinib only	4 (9)	3 (10)	7 (9)
Venetoclax only	2 (4)	0	2 (3)
Both	9 (20)	4 (14)	13 (18)
AEs leading to dose reduction	20 (44)	14 (48)	34 (46)
Ibrutinib only	9 (20)	5 (17)	14 (19)
Venetoclax only	6 (13)	3 (10)	9 (12)
Both	5 (11)	6 (21)	11 (15)
AEs leading to death	6 (13)	5 (17)	11 (15)
Ibrutinib related ^a	1 (2)	0	1 (1)
Venetoclax related ^a	0	0	0
Most frequent any-grade AEs ^b			
Diarrhea	34 (76)	15 (52)	49 (66)
Neutropenia	18 (40)	9 (31)	27 (36)
Fatigue	13 (29)	12 (41)	25 (34)
Nausea	16 (36)	9 (31)	25 (34)
Thrombocytopenia	15 (33)	7 (24)	22 (30)
Anemia	13 (29)	8 (28)	21 (28)
COVID-19	7 (16)	11 (38)	18 (24)
Vomiting	9 (20)	8 (28)	17 (23)
Hypomagnesemia	6 (13)	9 (31)	15 (20)
Pyrexia	6 (13)	9 (31)	15 (20)
Most frequent grade ≥3 AEs ^c			
Neutropenia	17 (38)	7 (24)	24 (32)
Anemia	8 (18)	3 (10)	11 (15)
Thrombocytopenia	9 (20)	2 (7)	11 (15)
Tumor lysis syndrome			
Laboratory	2 (4)	3 (10)	5 (7)
Clinical	0	0	0

^aPer investigator opinion. ^bOccurring in ≥20% of patients in the total population. ^cOccurring in ≥10% of patients in the total population.

References

- Arlidge JO and Longo DL. *N Engl J Med*. 2022;386:2495–2506.
- Zhao X et al. *Br J Haematol*. 2015;168:757–768.
- Levi TE et al. *Lancet Haematol*. 2023;10:e142–e154.
- Pottel CA et al. *Blood*. 2014;124:509.
- Xu-Monette ZY et al. *Blood*. 2012;119:3668–3683.
- Cheung K-JJ et al. *Br J Haematol*. 2009;146:257–269.
- Levi TE et al. *Lancet Haematol*. 2023;10:e142–e154.
- Wang M et al. Presented at: 65th ASH Annual Meeting and Exposition; December 9–12, 2023; San Diego, CA, USA.