

Efficacy of Brentuximab Vedotin Combination Treatment in Patients With Relapsed or Refractory Diffuse Large B-Cell Lymphoma With CD30 <1% Expression

Objective

To examine whether the presence of trace amounts of CD30 staining are necessary for patients with CD30 expression <1% to derive clinical benefit from brentuximab vedotin (BV) + lenalidomide (Len) + rituximab (R)

Conclusions

- Results from this updated analysis indicate that visible CD30 detection by IHC (<1% vs no staining) is not required for response to BV + Len + R in patients with relapsed or refractory DLBCL
- Treatment with BV + Len + R showed efficacy benefit compared with placebo + Len + R regardless of CD30 expression level, including in patients with no visible CD30 IHC staining
- These results are consistent with those from the overall ECHELON-3 study population



Supplementary Materials

Please scan this quick response (QR) code with your smartphone app to view additional information for this poster. If you do not have a smartphone, you may access this material via the internet at <https://scientificpubs.congressposter.com/p/eoksx34jgnpnr82>. Due to ASH restrictions, an electronic version of this poster is not available via this QR code. To request an electronic version of this poster, please contact Pfizer Medical Information (<https://www.pfizermedicalinformation.com/>). To ask questions about this poster, please contact Craig Portell, CP4YS@uvahealth.org

References: 1. Seagen. Adcetris (brentuximab vedotin) prescribing information. https://www.accessdata.fda.gov/drugsatfda_docs/nda/2011/021154Orig1s010.pdf. Published 2011. Updated February 2025. Accessed October 2025. 2. Huo YJ, et al. (2022). Blood Cancer J. 12(3):48. 3. Bartlett NL, et al. (2025). J Clin Oncol. 43(9):1061-1072.

Acknowledgments: Thank you to the patients and their families for their participation in the study, and to all research personnel for their support of this important trial. This study was sponsored by Seagen, Inc, which was acquired by Pfizer in December 2023. Medical writing support was provided by Ryan Miller, PhD, of Nucleus Global, an Inizio Company, and was funded by Pfizer.

Grzegorz S. Nowakowski,¹ Rebecca L. King,¹ Daniel Kearney,² Nancy L. Bartlett,³ Jeong-A Kim,⁴ Isabelle Fleury,⁵ Luigina Mollica,⁵ Craig A. Portell,⁶ Christopher A. Yasenchak,⁷ Keenan Fenton,⁸ Christopher Hale,⁸ Diana Hubbard,⁹ Hailing Lu,⁸ Monica Patterson,⁸ Michelle Fanale,⁸ Evelyn Rustia,⁸ Uwe Hahn²

¹Mayo Clinic, Rochester, MN, USA; ²Royal Adelaide Hospital, Adelaide SA, Australia; ³Washington University School of Medicine, Siteman Cancer Center, St Louis, MO, USA; ⁴St. Vincent's Hospital, The Catholic University of Korea, Suwon, South Korea; ⁵CIUSSS de L'Est de l'Île de Montréal/Installation Hôpital Maisonneuve-Rosemont, Montreal, QC, Canada; ⁶UVA Comprehensive Cancer Center, University of Virginia, Charlottesville, VA, USA; ⁷US Oncology Research, Willamette Valley Cancer Institute and Research Center, Eugene, OR, USA; ⁸Pfizer, Bothell, WA, USA

Background

- BV is a CD30-directed antibody-drug conjugate approved for the treatment of patients with relapsed or refractory diffuse large B-cell lymphoma (DLBCL) in combination with Len and R¹
 - DLBCLs have variable expression of CD30²
- In the phase 3 ECHELON-3 study (NCT04404283), BV + Len + R showed statistically significant overall survival (OS), progression-free survival (PFS), and objective response rate (ORR) benefits vs placebo + Len + R in patients with relapsed or refractory DLBCL³
 - This study showed that BV + Len + R provided clinical benefit regardless of CD30 expression level (≥1% or <1%)
- We hypothesize that BV may exert antitumor activity in patients whose CD30 expression is undetectable by immunohistochemistry (IHC)

Results

PATIENTS AND TRACE STAINING

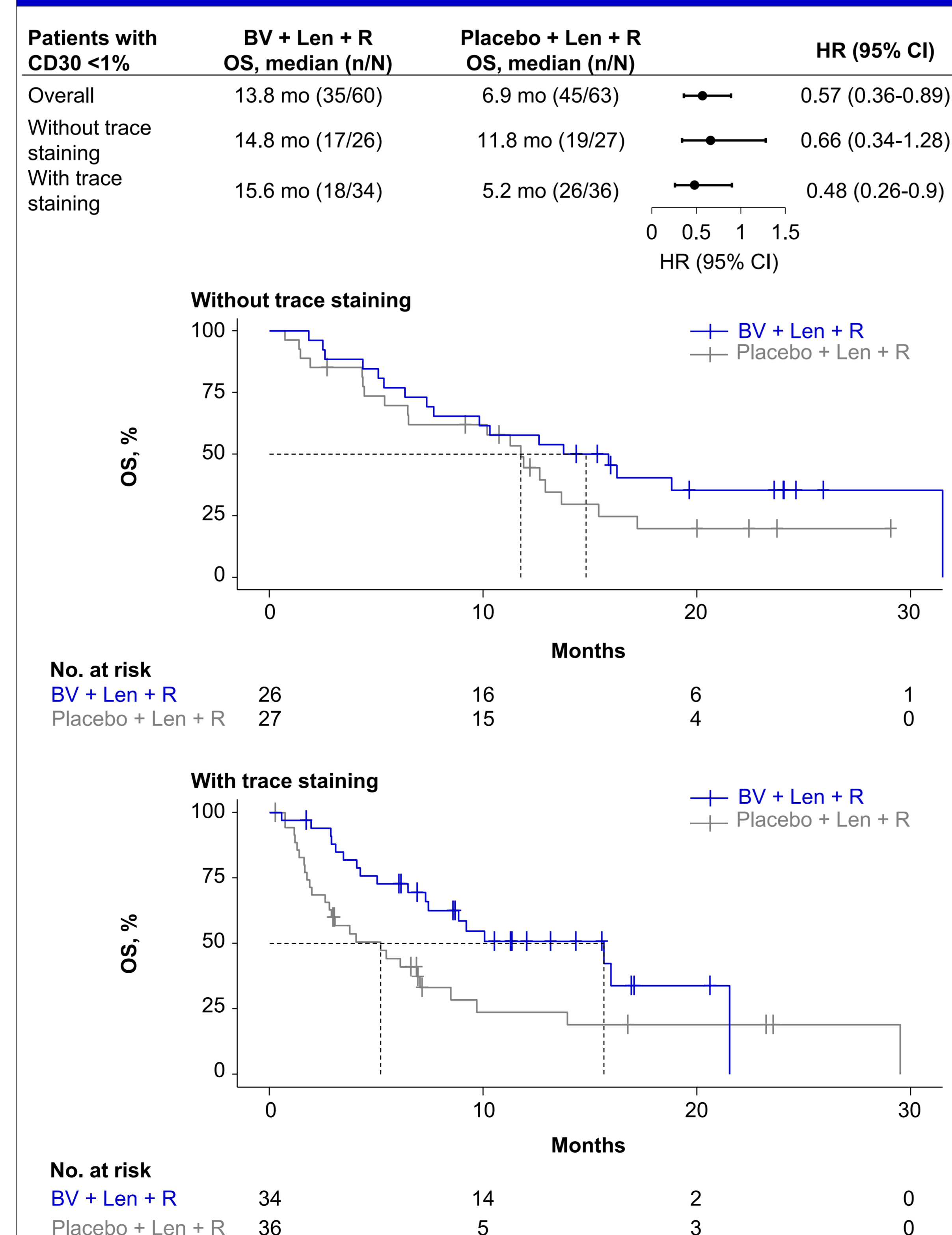
- **Figure 1** shows the distribution of patients in both treatment arms with CD30 <1% without and with trace staining and representative IHC staining for these patients

EFFICACY

OS

- In patients with CD30 <1%, a greater OS benefit was observed with BV + Len + R vs placebo + Len + R (hazard ratio [HR], 0.57; 95% CI, 0.36-0.89) (**Figure 2**)
 - The OS benefit was maintained regardless of trace staining

Figure 2. OS in CD30 <1% patients without or with trace staining



BV=brentuximab vedotin; HR=hazard ratio; Len=lenalidomide; OS=overall survival; R=rituximab.

Methods

- In the ECHELON-3 study, patients with relapsed or refractory DLBCL were randomized 1:1 to receive BV + Len + R or placebo + Len + R
 - Primary endpoint was OS
 - Key secondary endpoints were PFS and ORR per Lugano 2014
 - CD30 expression was assessed by IHC by central and/or local testing
 - o CD30 positivity was scored as the percentage of CD30-positive cells out of neoplastic cells or total lymphocytes, when neoplastic cells could not be distinguished
- In this updated analysis, patients with CD30 <1% staining by central laboratory IHC were further grouped into CD30 <1% without trace staining and CD30 <1% with trace staining
- Analyses described here are post hoc, and results are descriptive

Figure 1. Representative CD30 IHC staining in patients without or with trace staining

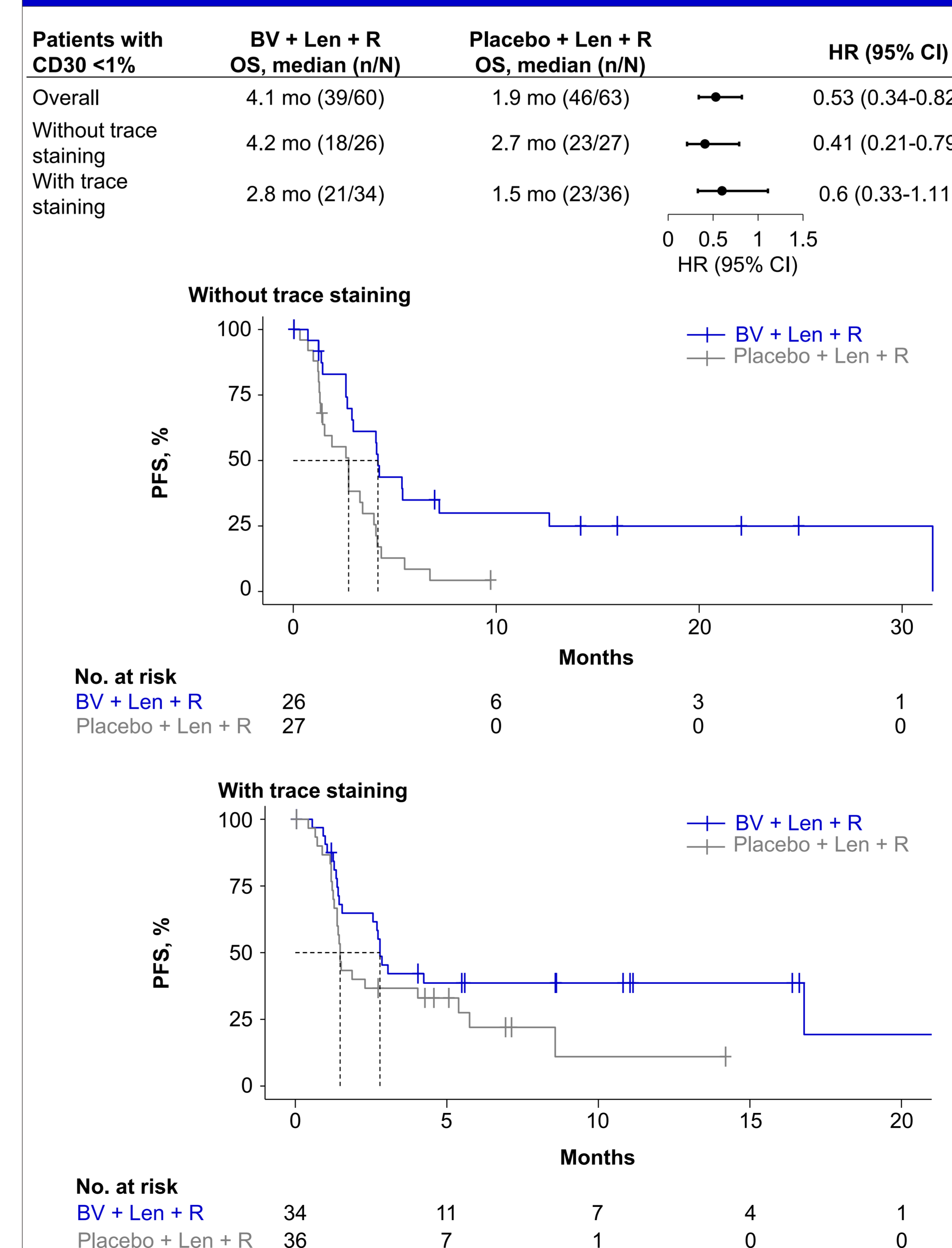
	BV + Len + R (n=60)	Placebo + Len + R (n=63)	CD30 IHC Staining		
			H&E	CD30	Negative IgG Control
Patients without trace staining, n (%)	26 (43)	27 (43)			
Patients with trace staining, n (%)	34 (57)	36 (57)			

All images at 40x magnification. BV=brentuximab vedotin; H&E=hematoxylin and eosin; IgG=immunoglobulin G; IHC=immunohistochemistry; Len=lenalidomide; R=rituximab.

PFS

- In patients with CD30 <1%, a greater PFS benefit was observed with BV + Len + R vs placebo + Len + R (HR, 0.53; 95% CI, 0.34-0.82) (**Figure 3**)
 - The PFS benefit was maintained regardless of trace staining

Figure 3. PFS in CD30 <1% patients without or with trace staining

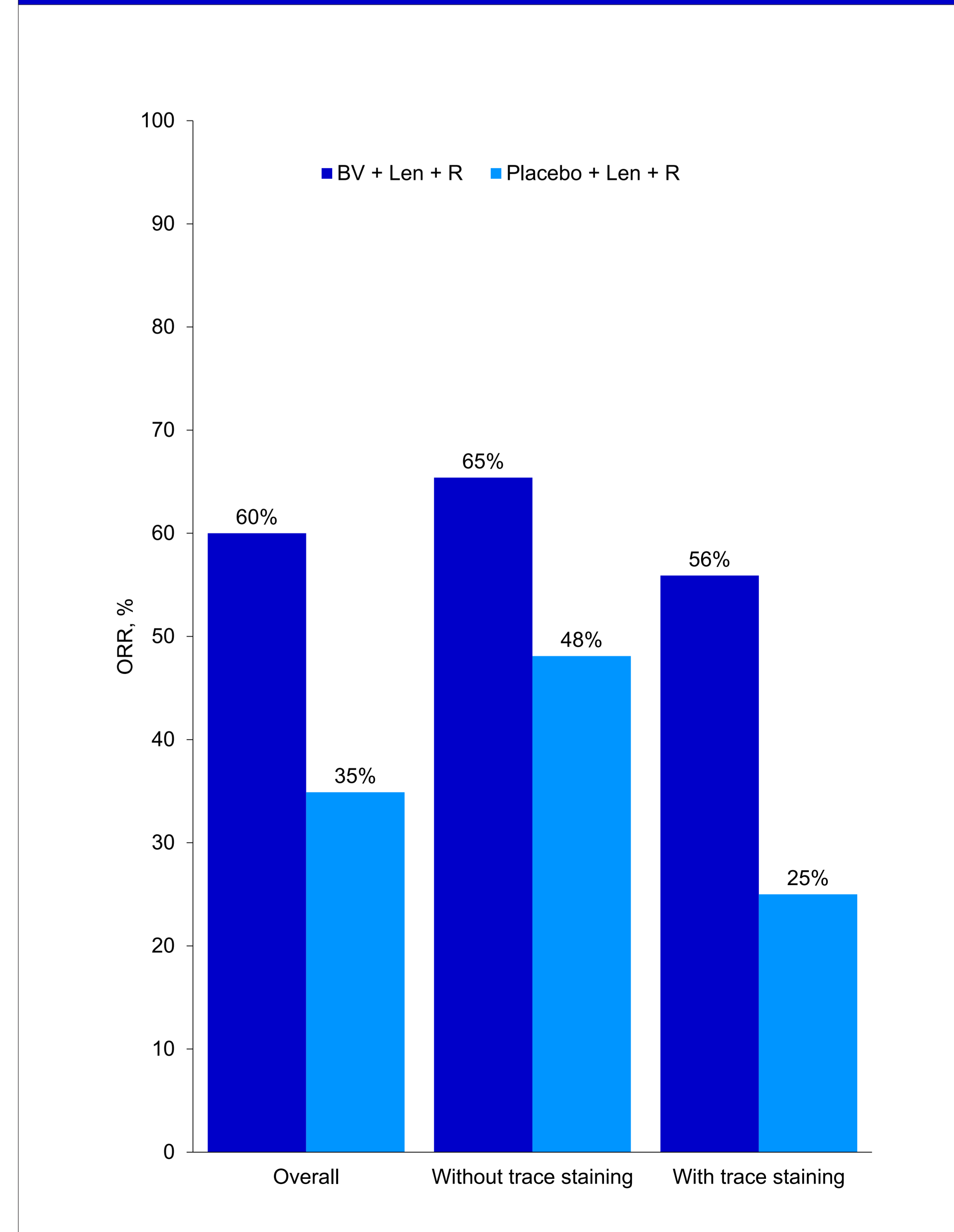


BV=brentuximab vedotin; HR=hazard ratio; Len=lenalidomide; PFS=progression-free survival; R=rituximab.

ORR

- In patients with CD30 <1%, the ORR was higher with BV + Len + R (60%) vs placebo + Len + R (35%) (**Figure 4**)
 - The ORR benefit was maintained regardless of trace staining

Figure 4. ORR in CD30 <1% patients without or with trace staining



BV=brentuximab vedotin; Len=lenalidomide; ORR=objective response rate; R=rituximab.