

# Health-Related Quality of Life (HRQoL) in Patients with Diffuse Large B-Cell Lymphoma (DLBCL) Treated with Polatumab Vedotin, Rituximab, Cyclophosphamide, Doxorubicin and Prednisone (Pola-R-CHP) versus Rituximab, Cyclophosphamide, Doxorubicin, Vincristine and Prednisone (R-CHOP) in the Phase III POLARIX Study

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## Summary

Patient-reported outcomes were used to characterize the patient experience in POLARIX.

Clinically meaningful improvements in disease-related symptoms were seen in both treatment arms.

These data showed that the patient experience was similar between those without progression receiving Pola-R-CHP or R-CHOP.

Improvements in HRQoL measures were rapid and sustained.

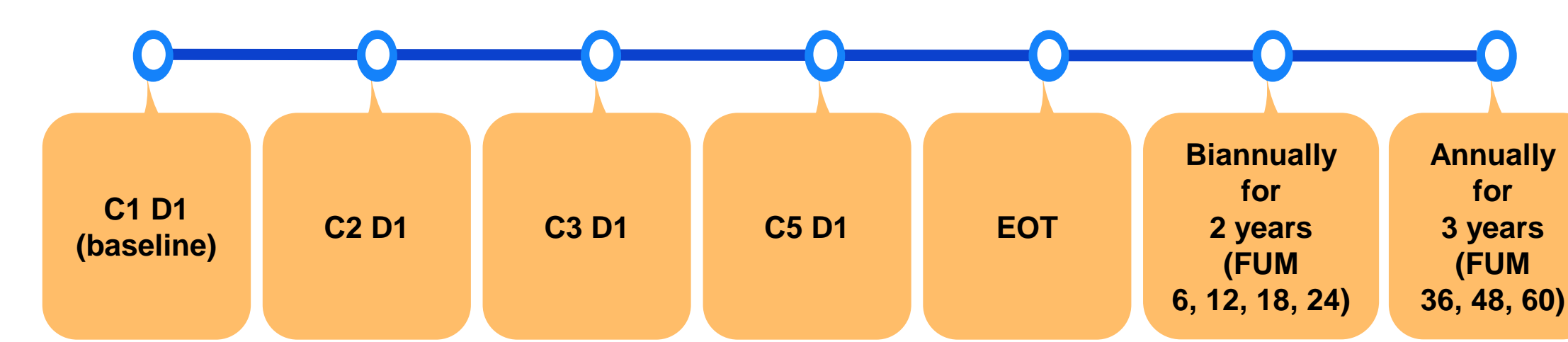
## Background

- Patients with lymphoma report impaired HRQoL as a result of disease- and treatment-related symptoms.<sup>1</sup>
- However, there are limited dynamic HRQoL data using patient-reported outcome (PRO) measures from large prospective clinical trials in patients with previously untreated DLBCL.
- The Phase III POLARIX study (NCT03274492) demonstrated superior progression-free survival and a similar safety profile with Pola-R-CHP versus standard R-CHOP in patients with previously untreated DLBCL.<sup>2</sup>
- Analysis of patient-reported peripheral neuropathy symptoms in POLARIX using the Functional Assessment of Cancer Therapy/Gynecologic Oncology Group Neurotoxicity subscale have been reported previously.<sup>3</sup>
- In this analysis, PROs were used to measure QoL, physical functioning, fatigue, and lymphoma-related symptom scores to fully characterize the patient experience in POLARIX.

## Methods

- In total, 879 patients with previously untreated DLBCL were randomized 1:1 to receive Pola-R-CHP (n=440) or R-CHOP (n=439).
- Lymphoma symptom scores were assessed using the Functional Assessment of Cancer Therapy-Lymphoma Subscale (FACT-LymS).<sup>1</sup>
- QoL, physical functioning, and fatigue were assessed using the European Organization for Research and Treatment of Cancer Quality of Life-Core 30 questionnaire (EORTC QLQ-C30).<sup>4</sup>
- Questionnaires were administered to patients without progression according to a defined schedule (Figure 1) until disease progression or study discontinuation.

Figure 1. Schedule of PRO questionnaire administration.



Note: Patients who experienced disease progression or discontinued treatment stopped reporting PROs. C, Cycle; D, Day; EOT, end of treatment; FUM, Follow-up Month.

- Percentage of patients with clinically meaningful improvements, worsening, and no changes from baseline for HRQoL measures (lymphoma symptom scores, QoL, physical functioning, and fatigue) were reported based on validated thresholds<sup>1,4</sup> (Table 1).
- Changes over time in HRQoL measures were assessed.

Table 1. Thresholds\* for clinically meaningful differences in PROs.

PRO Measures	Clinically Meaningful Improvement	No Change	Clinically Meaningful Worsening
Lymphoma Symptom Score <sup>1</sup>	≥3-point increase	-2-points to +2-points	≥3-point decrease
QoL <sup>4</sup>	≥8-point increase	-9-points to +7-points	≥10-point decrease
Physical Functioning <sup>4</sup>	≥7-point increase	-6-points to +9-points	≥10-point decrease
Fatigue <sup>4</sup>	≥9-point increase	-9-points to +8-points	≥10-point decrease

\*Thresholds validated based on the FACT-LymS index and EORTC QLQ-C30 tool.<sup>1,4</sup>

## References

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## Disclosures

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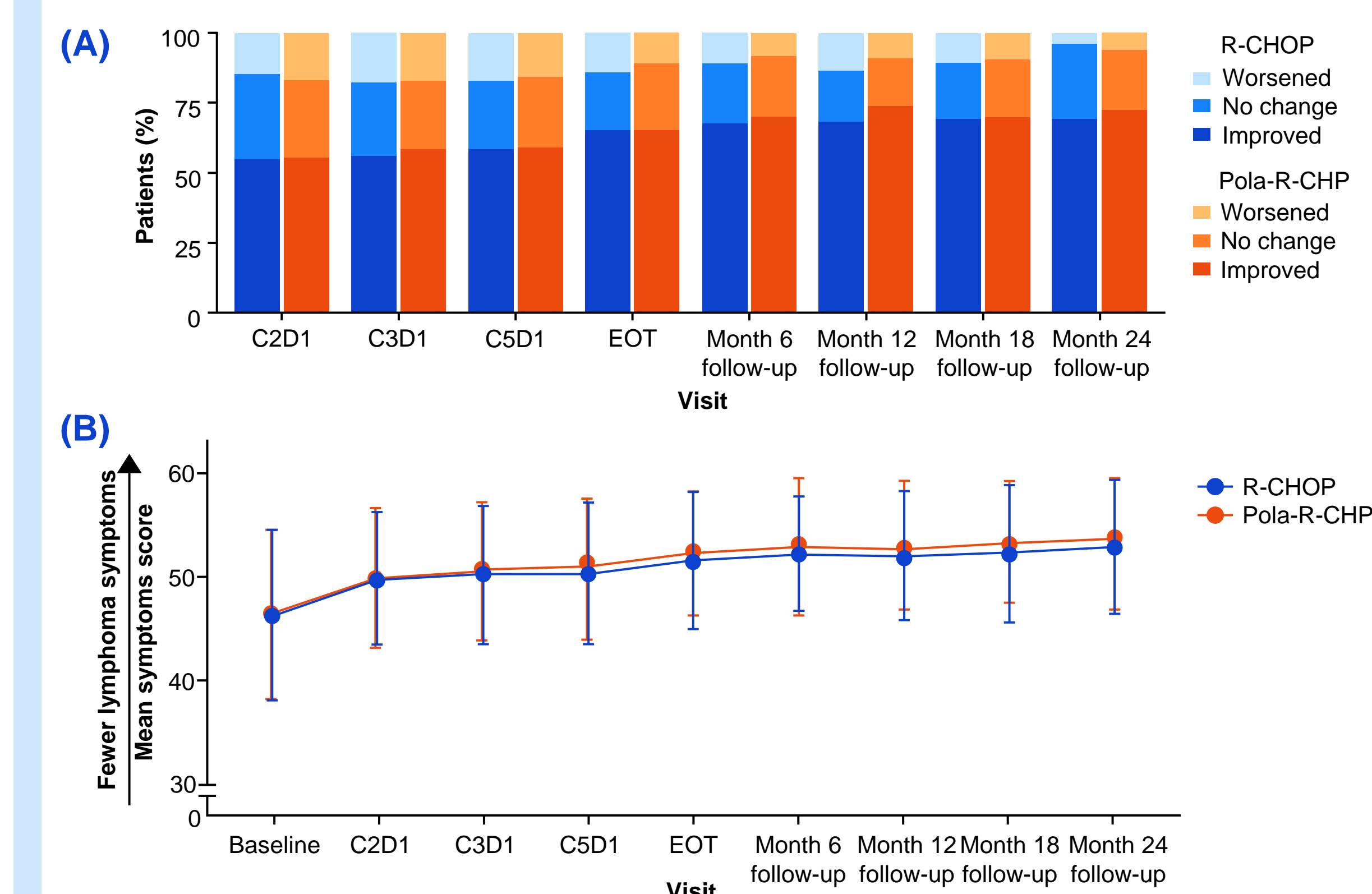
## Results

- Questionnaire response rates for all PROs were high (>80%) throughout the study.

### Lymphoma symptom scores

- Lymphoma symptom scores were similar in both treatment arms at baseline.
- Clinically meaningful improvements at any time point were seen in 82.3% of patients receiving Pola-R-CHP and 81.3% of those receiving R-CHOP
  - Both regimens caused rapid, sustained improvements in lymphoma symptom score in most patients after Cycle 1, which plateaued by the first follow-up assessment after EOT (Figure 2).

Figure 2. FACT-LymS lymphoma symptom score by (A) clinically meaningful difference\* and (B) mean changes over time.<sup>†,‡</sup>

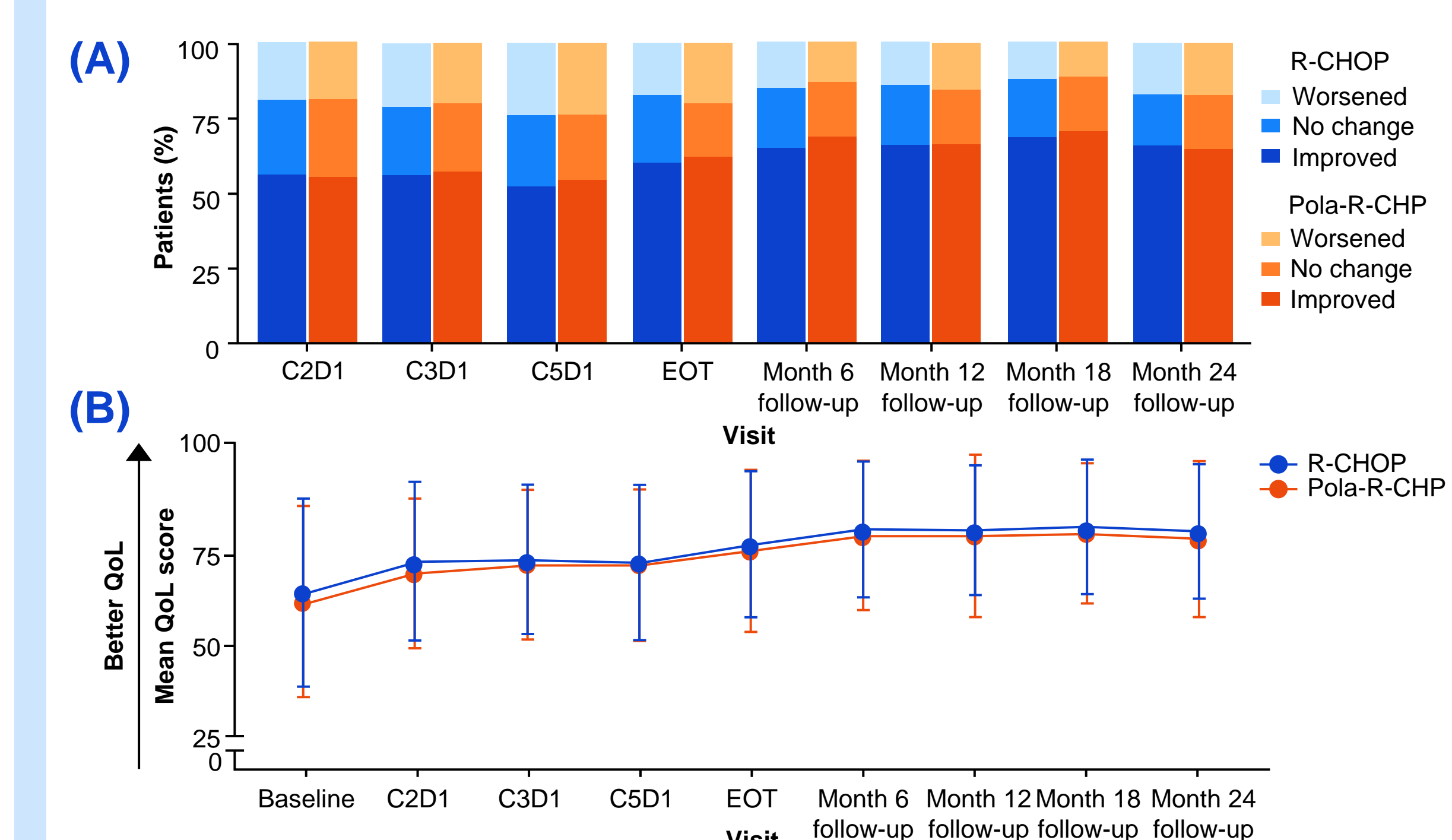


\*Clinically meaningful difference in symptom score categorized by improvement, worsening, or no change were defined as ≥3-point increase, decrease, and in between, respectively; †Scored on a subscale of 0–60, with higher scores representing fewer symptoms; ‡Error bars represent mean score ± one standard deviation.

## QoL

- Baseline scores for QoL were similar in both treatment arms.
- Clinically meaningful improvements in QoL scores at any time point compared with baseline were comparable in patients from either treatment group and plateaued by the first assessment after EOT (Figure 3).

Figure 3. EORTC QLQ-C30 QoL by (A) clinically meaningful difference\* and (B) mean changes over time.<sup>†,‡</sup>

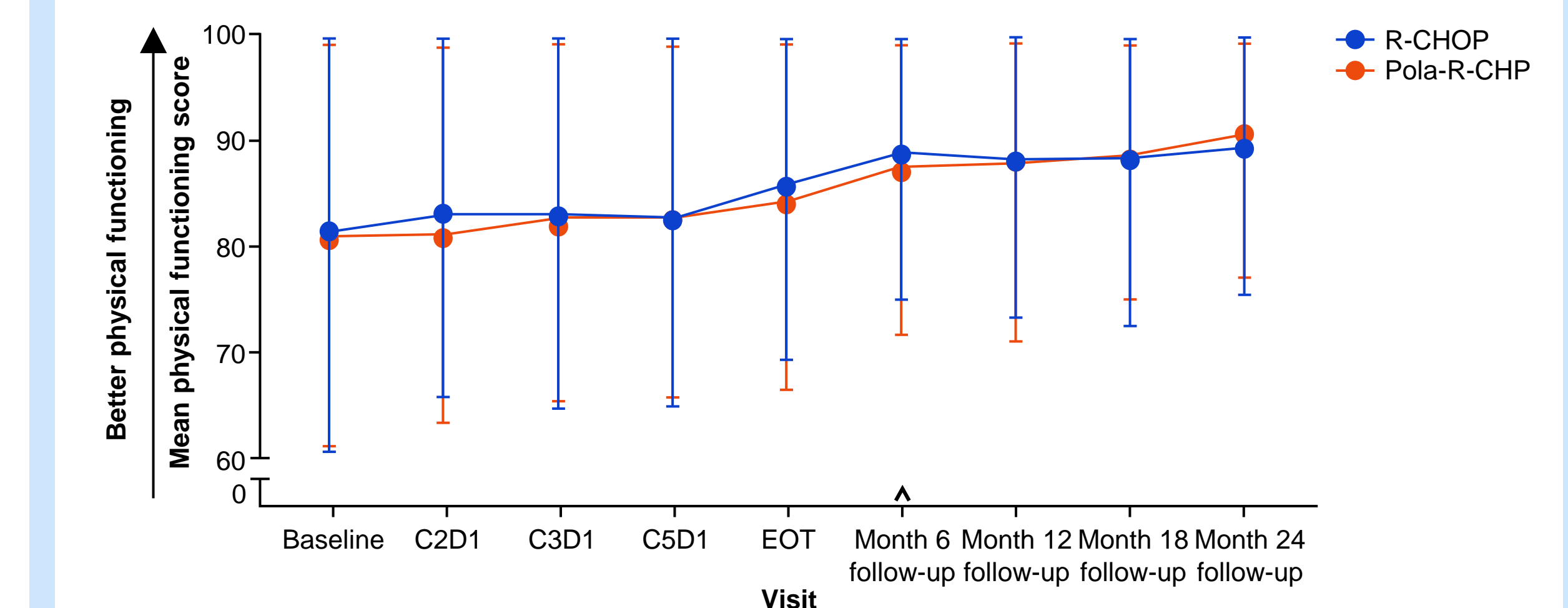


\*Clinically meaningful difference in QoL categorized by improvement, worsening, or no change were defined as ≥8-point increase, ≥10-point decrease, and in between, respectively; †Scored on a subscale of 0–100, with higher scores representing fewer symptoms; ‡Error bars represent mean score ± one standard deviation.

## Physical functioning scores

- At baseline, scores for physical functioning were similar in both treatment arms.
- Clinically meaningful improvements in physical functioning scores at any time point compared with baseline were similar between patients who received Pola-R-CHP (42.4%) or R-CHOP (39.6%).
- Improvements plateaued by the first assessment after EOT (Figure 4).

Figure 4. Mean changes over time\* in EORTC QLQ-C30 physical functioning score.<sup>†</sup>

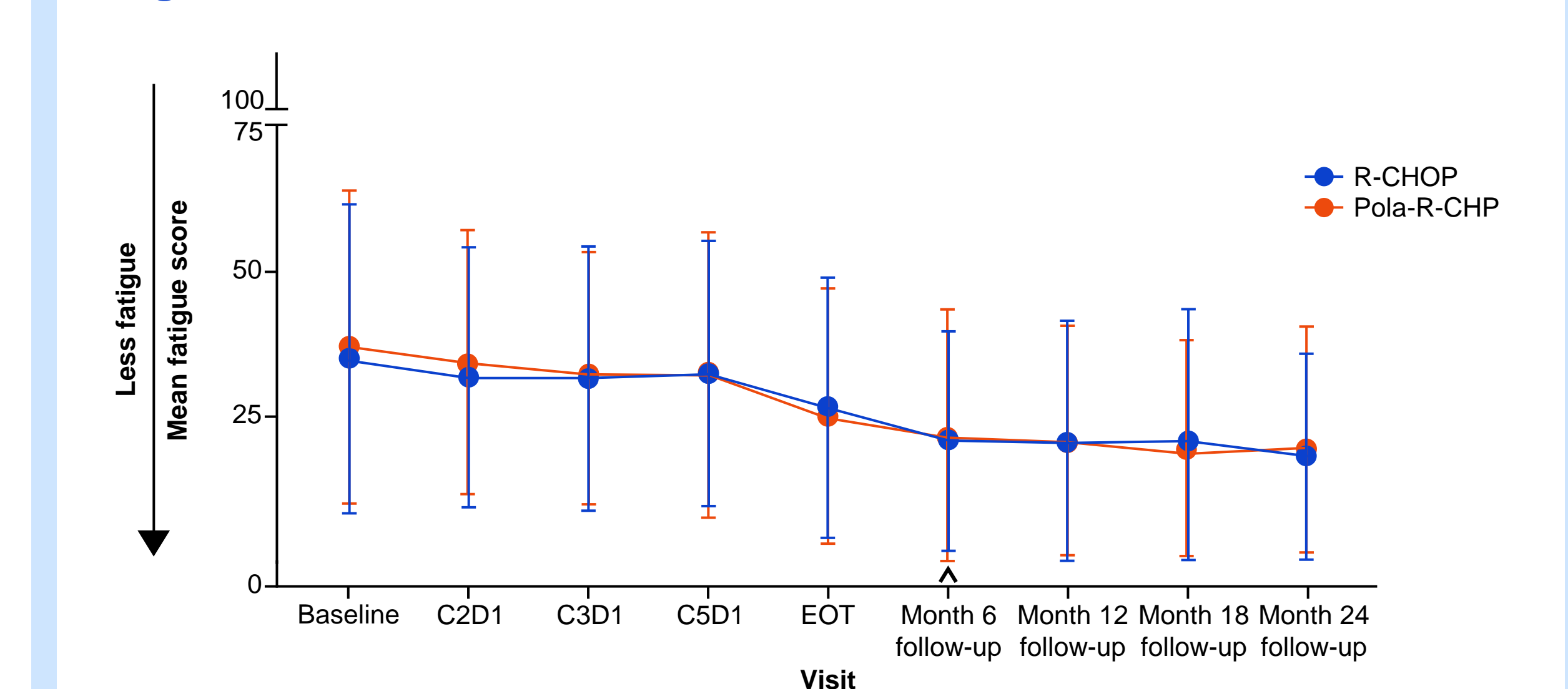


\*Scored on a subscale of 0–100, with higher scores representing fewer symptoms; †Error bars represent mean score ± one standard deviation; ‡31.5% of patients in the Pola-R-CHP arm and 30.9% of patients in the R-CHOP arm showed clinically meaningful improvements in physical functioning at Month 6 follow-up based on Table 1.

## Fatigue score

- At baseline, scores for fatigue were similar in both treatment arms.
- Clinically meaningful improvements in fatigue symptom scores at any time point compared with baseline were also similar between patients who received Pola-R-CHP (74.8%) or R-CHOP (68.2%).
- Improvements plateaued by the first assessment after EOT (Figure 5).

Figure 5. Mean changes over time\* in EORTC QLQ-C30 fatigue score.<sup>†</sup>



\*Scored on a subscale of 0–100, with lower scores representing fewer symptoms; †Error bars represent mean score ± one standard deviation; ‡57.4% of patients in the Pola-R-CHP arm and 56.1% of patients in the R-CHOP arm showed clinically meaningful improvements in fatigue at Month 6 follow-up based on Table 1.

## Conclusions

- Both Pola-R-CHP and R-CHOP led to rapid improvements in aspects of HRQoL that were sustained through EOT and follow-up.
- Improvements in lymphoma symptom scores were seen in the majority of patients after Cycle 1 and were maintained in most patients.
- QoL, physical functioning and fatigue scores were similar at baseline between arms and were improved during and after treatment.
- These data may represent a benchmark for patient-reported HRQoL in frontline DLBCL in the modern era.

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