

Comparative Effectiveness of Epcoritamab, Lenalidomide, and Rituximab in EPCORE FL-1 vs Real-World Chemoimmunotherapy in Relapsed/Refractory Follicular Lymphoma

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Objective

- To compare the efficacy of epcoritamab + R² from EPCORE FL-1 with real-world CIT in R/R FL using an IPTW-adjusted indirect treatment comparison

Conclusion

- This comparative IPTW-adjusted analysis against CIT showed that epcoritamab + R² resulted in deep and durable responses in patients with 2L+ FL, similar to the findings of the EPCORE FL-1 trial
- Comparative efficacy analysis showed that epcoritamab + R² significantly improved response rates, PFS, and OS compared with real-world CIT regimens
 - There was a 67% reduction in risk of progression or death and 82% reduction in risk of mortality in patients treated with epcoritamab + R² vs CIT
 - Increased rates and deeper responses were observed with epcoritamab + R² vs CIT (complete response rate: 84.2% vs 55.8%)
- Limitations of the analysis include potential confounding of DOR/DOCR by frequency and timing of scans in the real-world vs clinical trial setting and the lower PFS observed with real-world CIT compared with clinical trials
- Overall, the findings presented here combined with the manageable safety profile and superior efficacy vs R² demonstrated in the EPCORE FL-1 trial position epcoritamab + R² as a new chemotherapy-free standard of care for 2L+ FL



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To submit a medical question, please visit abbvieinfo.com.

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Introduction

- Patients with relapsed/refractory follicular lymphoma (R/R FL) often experience repeated relapse, with shorter remissions after each subsequent therapy^{1,2}
- Chemoimmunotherapy (CIT) remains used in routine practice, but cumulative toxicity and limited durability highlight the need for more effective chemotherapy-free options²
- Epcoritamab is a subcutaneous CD3×CD20 bispecific antibody approved in the United States (US) and Europe as monotherapy in third line and beyond (3L+) FL and approved in the US as combination therapy with lenalidomide and rituximab (R²) in 2L+ FL^{3,4}
- In EPCORE FL-1 (NCT05409066), fixed-duration epcoritamab + R² demonstrated superior response rates and progression-free survival (PFS) versus R² (hazard ratio [HR], 0.21 [95% CI, 0.14–0.31]; *P*<.0001), with a 79% reduction in the risk of progression or death, and a manageable safety profile⁵
- Because CIT is commonly used in real-world practice,⁶ this analysis compares epcoritamab + R² with real-world CIT regimens

Methods

Data Sources

- Individual patient data from 2 sources were compared:
 - EPCORE FL-1 trial⁶ (data cutoff: 24 May 2025)
 - Adults aged ≥18 years who had histologically confirmed CD20+ FL
 - FL Grade 1–3A, stage II–IV
 - ≥1 prior treatment containing ≥1 anti-CD20 monoclonal antibody therapy plus an alkylating agent
 - Met ≥1 Groupe d’Etude des Lymphomes Folliculaires criterion
 - COTA US electronic health records database (COTA Healthcare, New York, NY)
 - Contains real-world patient data (de-identified demographic, diagnostic, treatment, and outcomes data) submitted by geographically dispersed US academic medical centers and community practice sites
 - Patients were selected for inclusion based on criteria similar to the FL-1 trial
 - Adults aged ≥18 years who had a diagnosis of R/R FL based on record of pathological confirmation of an initial FL diagnosis from January 2010 through December 2024
 - Eastern Cooperative Oncology Group performance status ≤2
 - FL Grade 1–3A
 - ≥1 prior treatment, including ≥1 anti-CD20 monoclonal antibody-containing therapy and an alkylating agent or lenalidomide
 - Second-line (2L) initiation not earlier than 1 January 2010
- Generalized estimating equations identified the best-matched CIT line of therapy (LOT) and inverse probability of treatment weighting (IPTW) balanced baseline characteristics⁷

Results

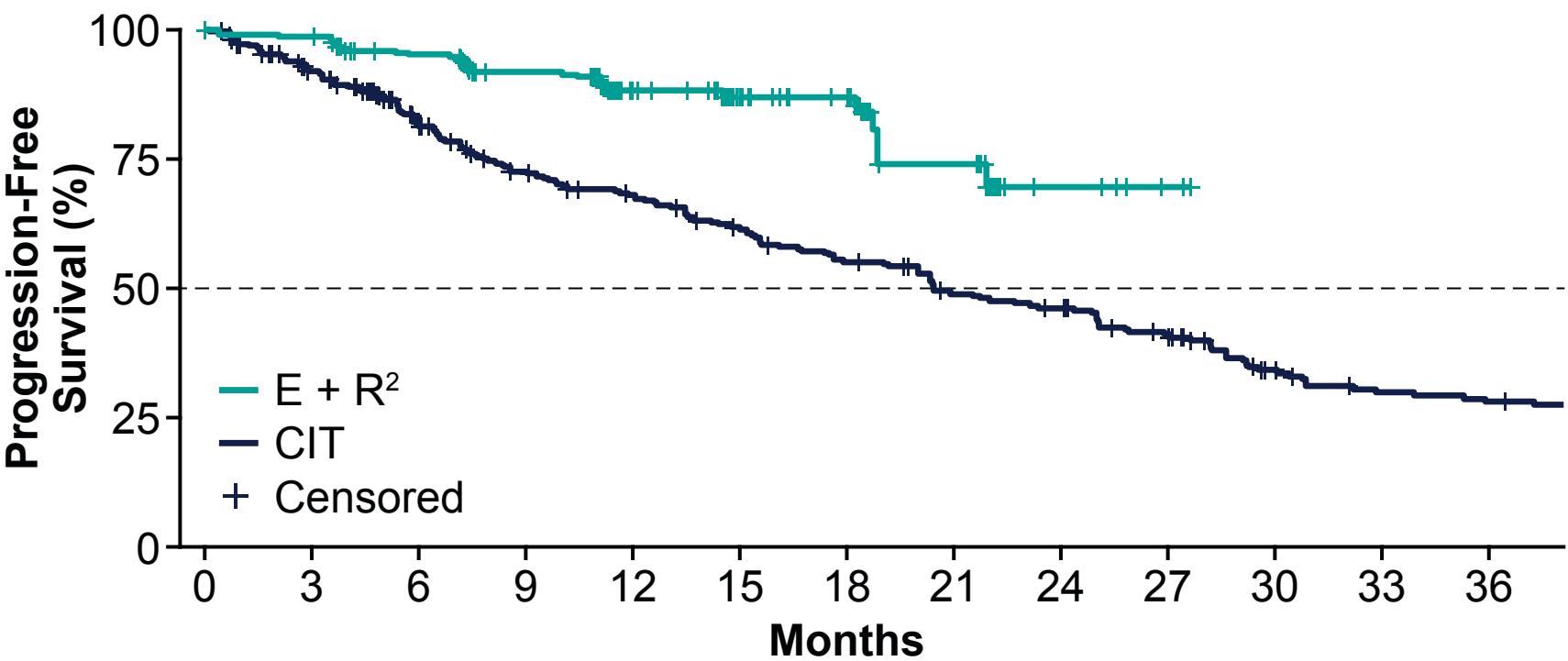
IPTW-Adjusted Demographics and Clinical Baseline Characteristics Were Well Balanced

Characteristic	Unadjusted		Adjusted	
	Epcoritamab + R ² (n=243)	CIT (n=274)	Epcoritamab + R ² (ESS=199)	CIT (ESS=220)
Age ≥65 years, %	36.2	59.1	47.8	51.5
Female, n (%)	42.8	42.7	40.9	42.3
Hispanic or Latino ethnicity, n (%) ^a	11.9	21.2	14.9	16.7
Prior LOT, n (%)				
1	59.7	71.9	66.5	68.8
2	23.9	17.5	20.6	18.6
≥3	16.5	10.6	12.9	12.6
ECOG performance status, n (%)				
0	68.3	51.5	64.1	60.7
1	29.6	41.6	33.3	34.8
2	2.1	6.9	2.6	4.5
POD24, n (%)	43.6	40.5	42.4	42.0
High LDH, n (%)	35.0	18.2	28.0	26.1
Abnormal hemoglobin, n (%)	34.6	29.2	31.7	31.6
Stage III–IV, n (%)	84.8	90.1	87.3	89.1
Double refractory, n (%)	37.4	38.7	35.6	36.5

^aRace, including African American, was not adjusted for as groups were equally balanced.
CIT, chemoimmunotherapy; ECOG, Eastern Cooperative Oncology Group; ESS, effective sample size; IPTW, inverse probability of treatment weighting; LDH, lactate dehydrogenase; LOT, lines of therapy; POD24, disease progression occurring within 24 months of initiating first-line therapy; R², lenalidomide and rituximab.

Comparative Efficacy, continued

IPTW-Adjusted PFS Was Improved With Epcoritamab + R² vs CIT

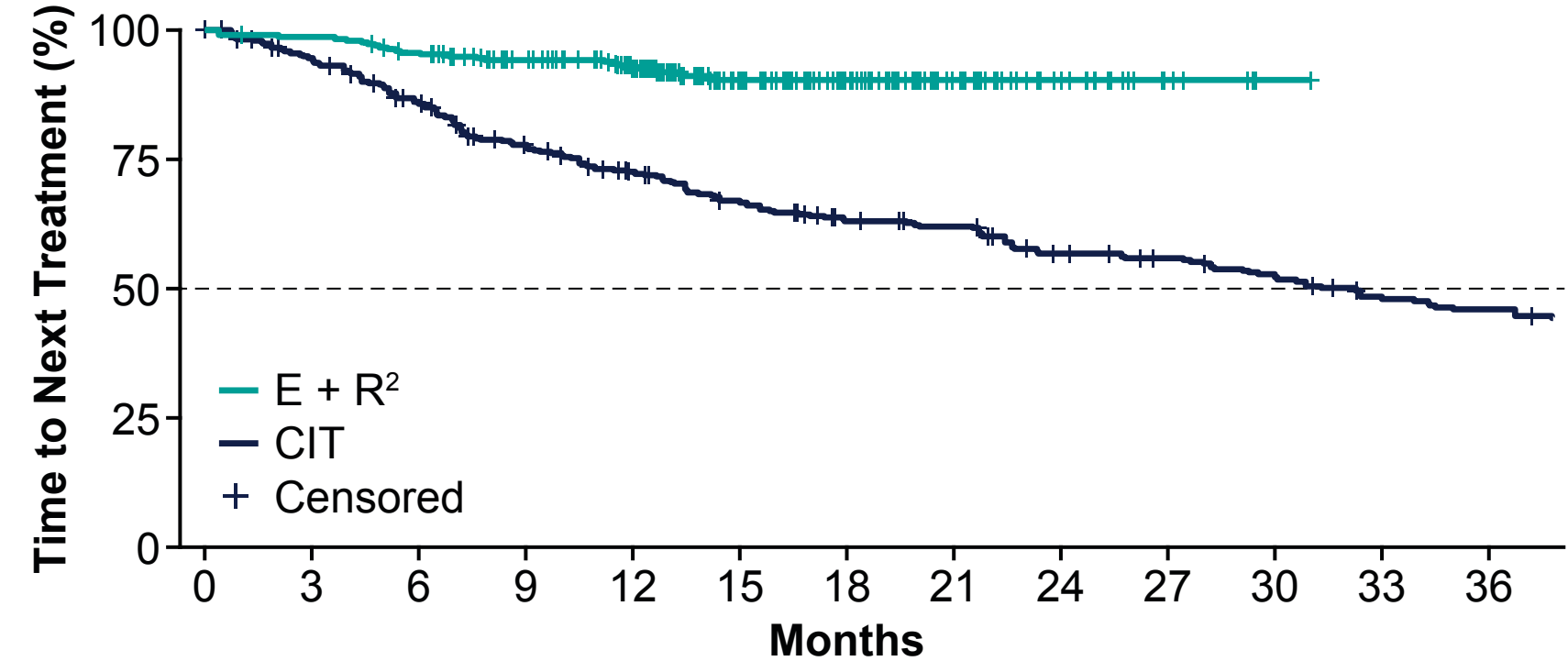


Patients at Risk													
E + R ²	227	223	206	171	107	73	59	24	4	1	0	0	0
CIT	269	226	170	144	130	115	102	85	80	67	48	40	37

CIT, chemoimmunotherapy; E, epcoritamab; ESS, effective sample size; IPTW, inverse probability of treatment weighting; NE, not estimable; PFS, progression-free survival; HR, hazard ratio; R², lenalidomide and rituximab.

- After IPTW-adjustment, patients receiving epcoritamab + R² had improved PFS compared with CIT and had 67% reduction in the risk of progression or death

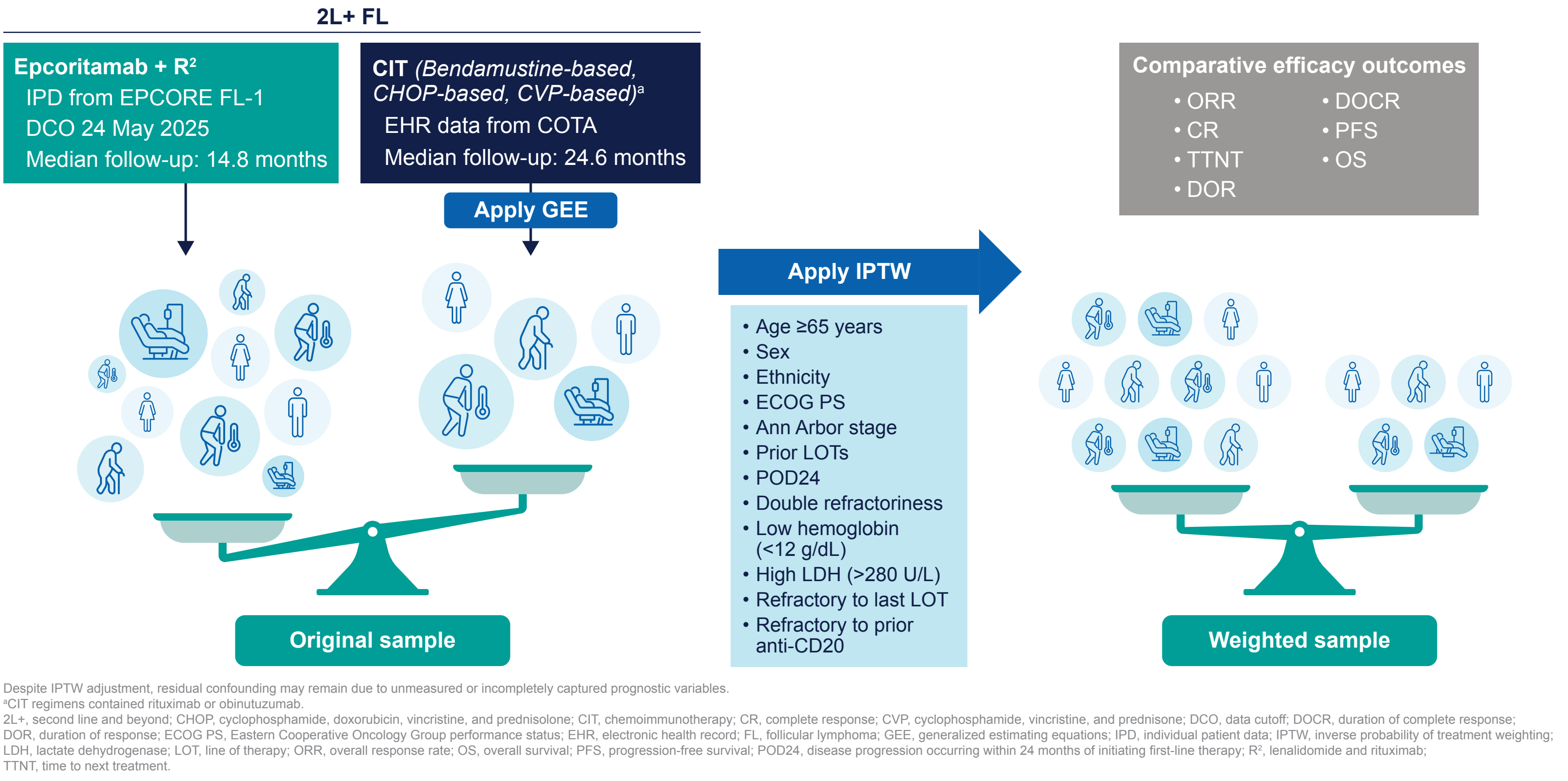
IPTW-Adjusted TTNT Was Improved With Epcoritamab + R² vs CIT



Patients at Risk													
E + R ²	227	223	213	188	163	97	68	31	15	5	1	0	0
CIT	269	249	223	195	176	160	145	138	121	115	108	96	91

CIT, chemoimmunotherapy; E, epcoritamab; ESS, effective sample size; HR, hazard ratio; IPTW, inverse probability of treatment weighting; NE, not estimable; R², lenalidomide and rituximab; TTNT, time to next treatment.

IPTW Was Used to Balance Demographics and Clinical Baseline Characteristics



Despite IPTW adjustment, residual confounding may remain due to unmeasured or incompletely captured prognostic variables.
^aCIT regimens contained rituximab or obinutuzumab.
^b2L+, second line and beyond; CHOP, cyclophosphamide, doxorubicin, vincristine, and prednisone; CIT, chemoimmunotherapy; CR, complete response; CVP, cyclophosphamide, vincristine, and prednisone; DCO, data cutoff; DOCR, duration of complete response; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; EHR, electronic health record; FL, follicular lymphoma; GEE, generalized estimating equations; IPD, individual patient data; IPTW, inverse probability of treatment weighting; LDH, lactate dehydrogenase; LOT, line of therapy; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; POD24, disease progression occurring within 24 months of initiating first-line therapy; R², lenalidomide and rituximab; TTNT, time to next treatment.

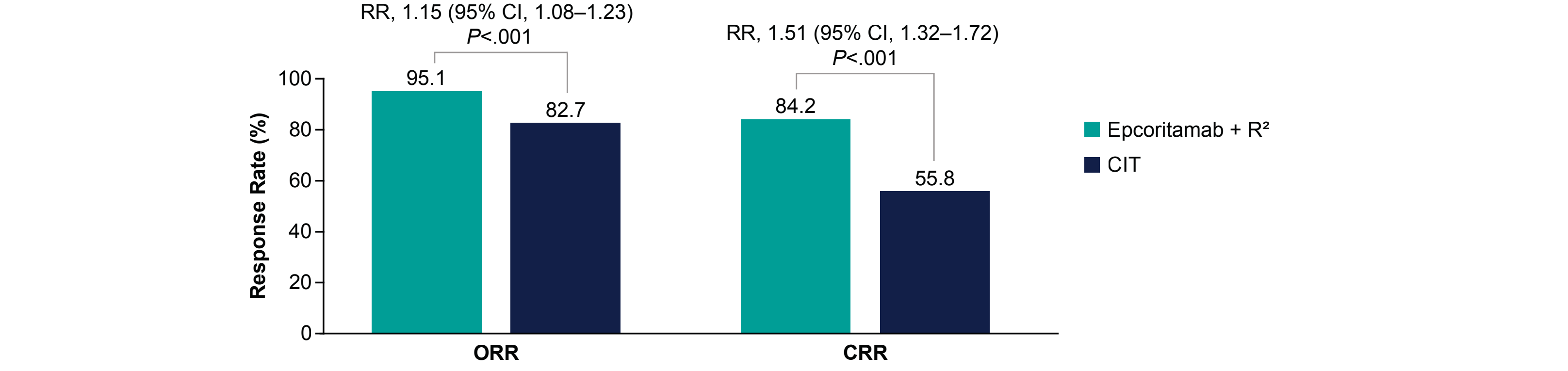
Demographics and Clinical Baseline Characteristics

- The analysis included 243 patients from EPCORE FL-1 who received epcoritamab + R² and 274 patients from COTA who received CIT for the treatment of 2L+ FL
- Patients in the CIT arm received bendamustine-based (69.3%), CHOP-based (16.4%), CVP-based (6.2%), other (6.9%), and other alkylator-based (1.1%) therapy
- Prior to IPTW adjustment, the epcoritamab + R² arm included lower proportions of older patients, lower proportions of Hispanic/Latino patients, higher proportions of patients with elevated lactate dehydrogenase (LDH), and higher proportions of patients with 2+ prior lines of therapy than the CIT arm, but the arms were balanced after weighting
 - Before weighting, the epcoritamab + R² cohort was more heavily pretreated and had higher LDH

Comparative Efficacy

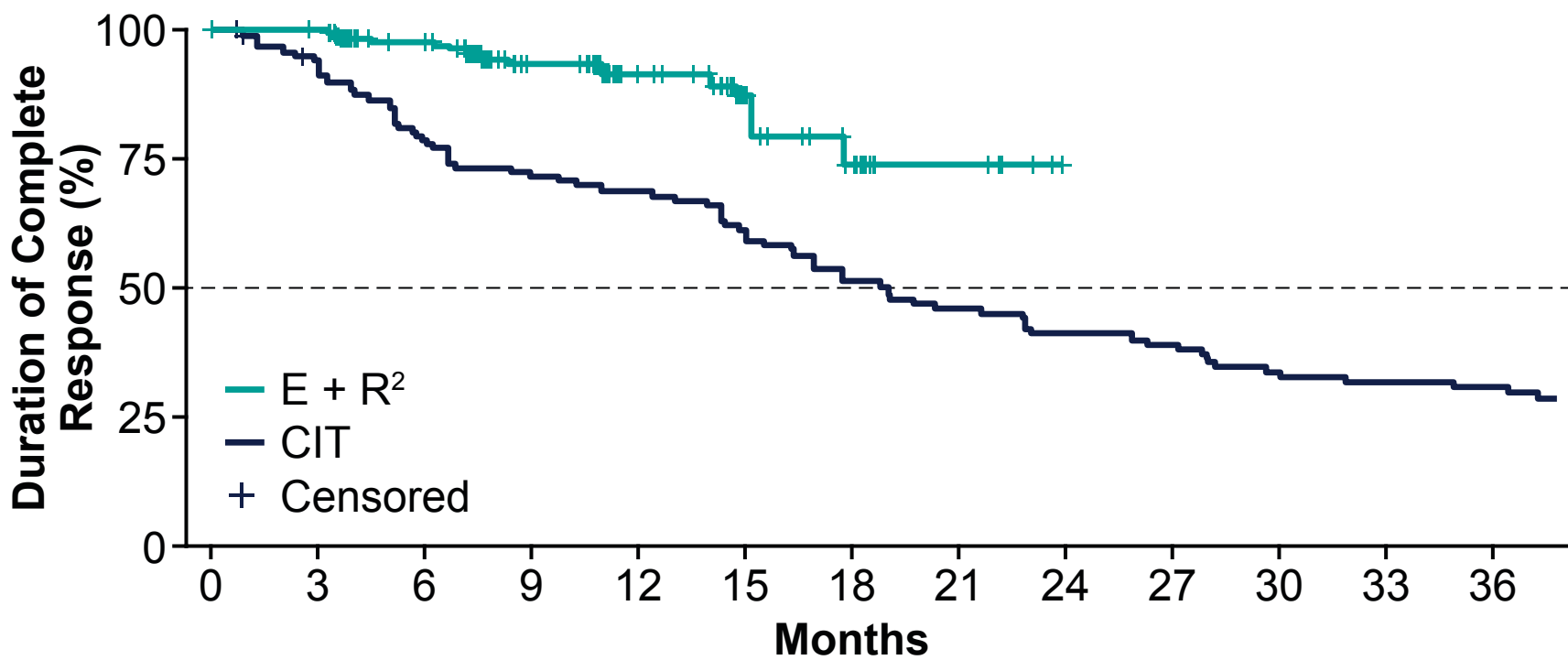
- Epcoritamab + R² showed improved response, durability, and survival compared with CIT

IPTW-Adjusted ORR and CRR Were Higher With Epcoritamab + R² vs CIT



CIT, chemoimmunotherapy; CRR, complete response rate; IPTW, inverse probability of treatment weighting; ORR, overall response rate; R², lenalidomide and rituximab; RR, relative risk.

IPTW-Adjusted DOCR Was Improved With Epcoritamab + R² vs CIT

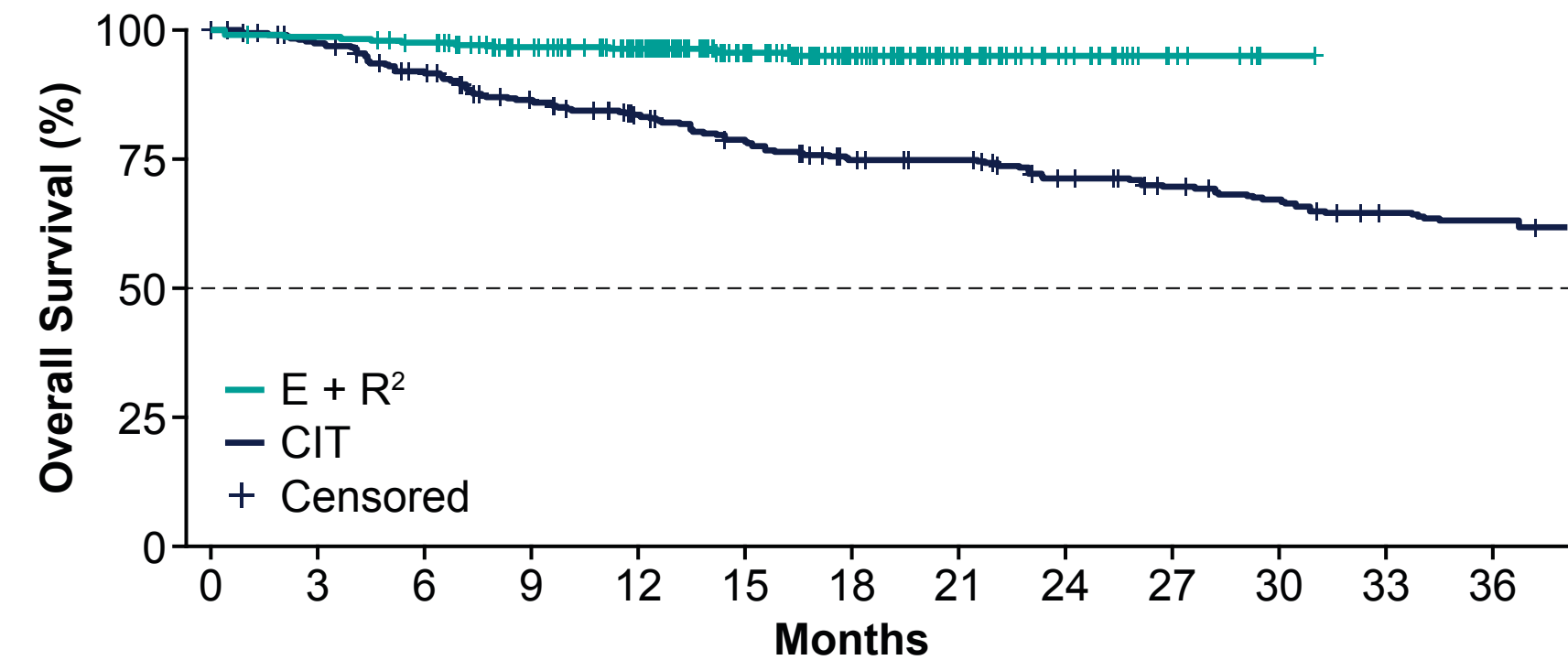


Patients at Risk													
E + R ²	191	182	142	81	48	26	13	4	0	0	0	0	0
CIT	150	78	65	59	57	50	42	38	34	32	28	26	25

CIT, chemoimmunotherapy; DOCR, duration of complete response; E, epcoritamab; ESS, effective sample size; HR, hazard ratio; IPTW, inverse probability of treatment weighting; NE, not estimable; R², lenalidomide and rituximab.

- After IPTW-adjustment, patients receiving epcoritamab + R² had improved duration of response (DOR) (accessible in the Supplemental Materials via the QR code) and duration of complete response (DOCR) compared with CIT and had:
 - 74% reduction in risk of loss of response or mortality
 - 72% reduction in risk of loss of complete response (CR) or mortality

IPTW-Adjusted OS Was Improved With Epcoritamab + R² vs CIT



Patients at Risk													
E + R ²	227	223	217	194	170	103	70	33	16	6	1	0	0
CIT	269	257	239	216	198	184	169	164	150	141	135	126	123

CIT, chemoimmunotherapy; E, epcoritamab; ESS, effective sample size; HR, hazard ratio; IPTW, inverse probability of treatment weighting; NE, not estimable; OS, overall survival; R², lenalidomide and rituximab.

- After IPTW-adjustment, patients receiving epcoritamab + R² had improved overall survival compared with CIT and had 82% reduction in mortality risk