# EHA2025 Congress June 12-15 | Milan, Italy



# Safety and Efficacy of Polatuzumab Vedotin plus Glofitamab as bridging therapy prior to Talicabtagene autoleucel for relapsed/ refractory B-cell lymphoma

PF1167

TEIPE<sup>1</sup>, A SHETTY<sup>1</sup>, M SENGAR<sup>1</sup>, L NAYAK<sup>1</sup>, BS GIRISH<sup>1</sup>, CS MEGHANA<sup>1</sup>, B BAGAL<sup>1</sup>, A JOHN<sup>1</sup>, S RAO<sup>1</sup>, D KALRA<sup>2</sup>, S RAVIKUMAR<sup>2</sup>, A JAISWAL<sup>2</sup>, Y YADAV<sup>2</sup>, A KARULKAR<sup>2</sup>, R PURWAR<sup>2</sup>, H JAIN<sup>1</sup>

- 1 Department of Medical Oncology, Tata Memorial Centre, Mumbai, India
- 2 Immunoadoptive Cell Therapy Private Limited (ImmunoACT), Mumbai, India

## Introduction

- Effective bridging therapy (BT) is critical to control while awaiting CAR-T infusion in relapsed/refractory (R/R) B-cell lymphomas (BCL).
- Traditional BT options offer limited disease control.
- Polatuzumab vedotin (Pola) and Glofitamab (Glofit), both active in R/R DLBCL, may offer synergistic benefit when combined.
- Early-phase data suggest Pola-Glofit is safe and efficacious (Hutchings M et al., ASH 2024).

## Aim

To evaluate the safety and efficacy of using Pola-Glofit as bridging therapy in R/R BCL patients undergoing anti-CD19 CAR-T cell therapy.

## Method

- Study type: Retrospective, single-center
- Inclusion: Patients with R/R BCL, aged ≥15 years, who received Pola-Glofit as BT prior to Talicabtagene autoleucel (Tali-cel) infusion.
- Treatment regimen:

Cycle 1: Obinutuzumab 1000 mg or Rituximab 375 mg/m² on Day 1; Polatuzumab vedotin 1.8 mg/kg on Day 2; Glofitamab 2.5 mg on Day 8 and 10 mg on Day 15 of a 21-day cycle.

Subsequent cycles (Cycle ≥2): Polatuzumab 1.8 mg/kg plus Glofitamab 10 mg administered on Day 1 of each 21-day cycle.

- Conditioning chemotherapy: Flu-Cy over 3 days prior to CAR-T infusion.
- CAR-T therapy: Single infusion of Tali-cel at a target dose of ≥5 × 10<sup>6</sup> cells/kg.
- Maintenance therapy post-CAR-T infusion was permitted.
- Outcome assessments: Overall response rate (ORR), complete remission (CR), toxicity profile, cytokine release syndrome (CRS), immune effector cell-associated neurotoxicity syndrome (ICANS), progression-free survival (PFS), and overall survival (OS).

# Results

**Overall survival** 

At the time of data abstraction (January 30, 2025), 43 patients underwent leukapheresis and 14 received Pola+Glofit as BT. Here in, we present the updated results of these patients.

Table 1. Baseline demographic and patient characteristics

All patient
N=14
55
(21-72)
57%
9 (64%)
3 (21%)
1 (7%)
1 (7%)
2
(1-5)
50%
1
(1-3)
59
(40-118)

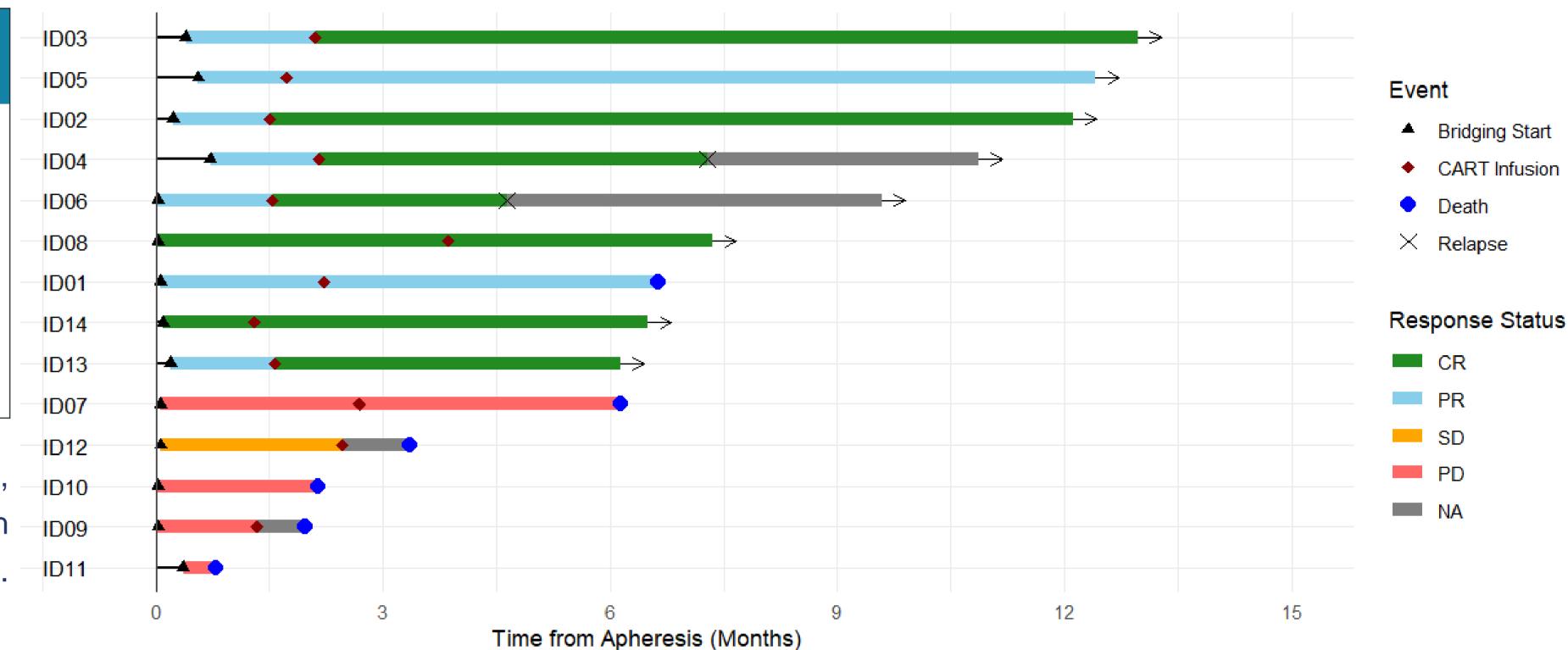
Response assessment, n	Post Pola-Glo	fit Post Tali-cel
(%)	(N=14)	(N=12)
Overall response rate	9 (64%)	9 (75%)
Complete response (CR)	2 (14%)	7 (58%)
Partial response (PR)	7 (50%)	2 (17%)
Stable disease (SD)	1 (7%)	0
Progressive disease (PD)	4 (29%)	1 (8%)
Not available (NA)	_	2 (14%)

Safety analysis post BT - CRS occurred in 36% (Gr 1: 29%, Gr 2: 7%) with no neurological events. All managed with 1009 tocilizumab; no ICU admissions or treatment-related deaths. Two deaths due to PD prior to receiving CAR T-cell therapy.

Table 3. Safety analysis post Tali-cel

Toxicity assessment, n (%)	Post Tali-cel (N=12)
Cytokine release syndrome, gr 3-4	1 (8%)
IEC-HS	3 (25%)
ICANS, grade 1-2	1 (8%)
Cytopenia, grade 3-4	12 (100%)
Hypogammaglobulinemia	6 (50%)

Table 2. Efficacy analysis post-BT and CAR T-cell therapy Figure 1. Pola-Glofit Bridging Cohort: Longitudinal Response, Relapse, and Survival

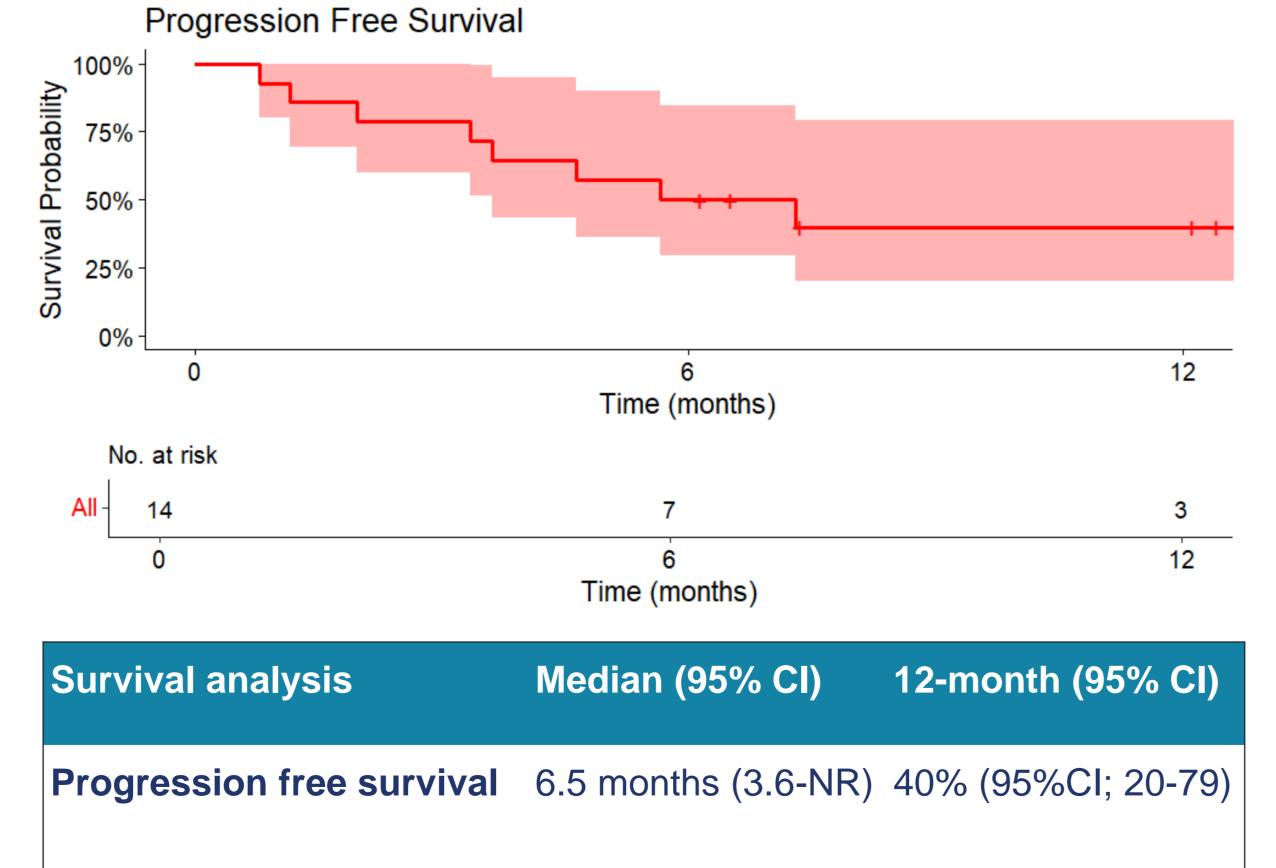


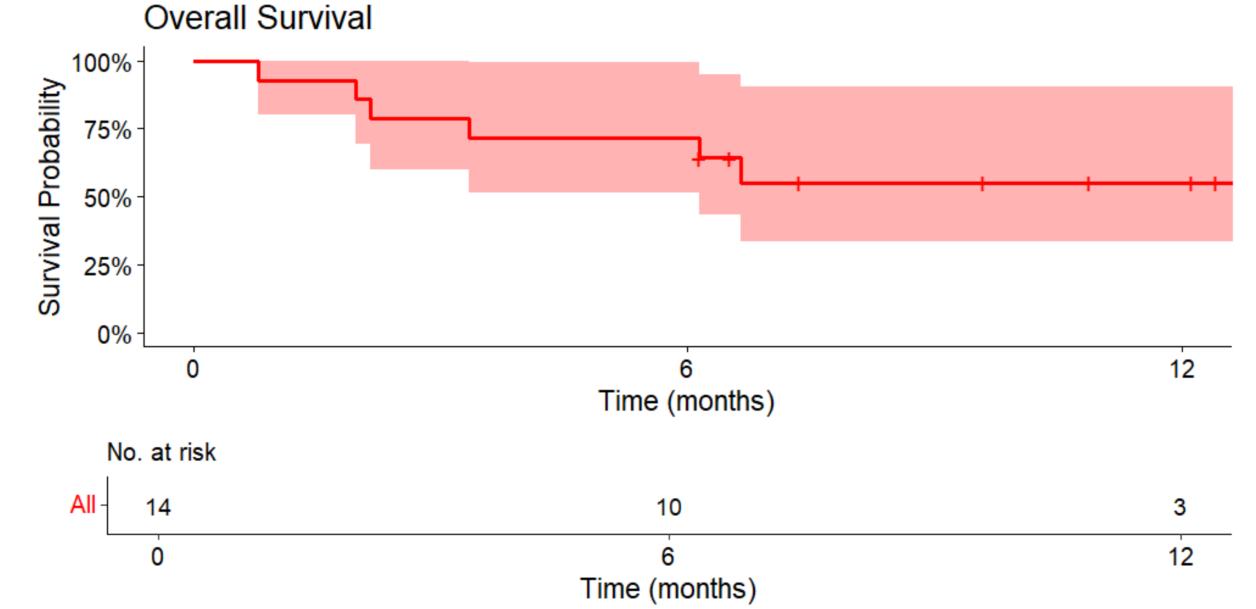
#### Response overview:

- 10 out of 12 patients who received Tali-cel infusion underwent day-28 response assessment.
- Two patients died (1 due to sepsis, 1 due to sepsis with co-existing ICANS).
- After a median follow-up of 10.8 months, 6 out of 9 responders remain disease free with ongoing B-cell aplasia.
- None of the patients who had progression post BT achieved any response post CAR-T infusion.

#### Figure 2. Kaplan Meier curves showing Progression free survival and Overall Survival

NR (6.1 months-NR) 55% (95%CI; 34-90)





# Conclusions

- Pola+Glofit as bridging therapy in R/R BCL demonstrated high response rates, even after a single cycle, with sustained responses following Talicel infusion.
- The combination showed favourable safety profile with manageable toxicity.

## References

Hutchings M, et al. Glofitamab in Combination with Polatuzumab Vedotin Maintains Durable Responses and a Manageable Safety Profile in Patients with Heavily Pre-Treated Relapsed/Refractory (R/R) Large B-Cell Lymphoma (LBCL) Including High-Grade B-Cell Lymphoma (HGBCL): Extended Follow-up of a Phase lb/II Study. Blood. 2024 Nov 5;144(Supplement 1):988.

Tilly H, Morschhauser F, Sehn LH, et al. Polatuzumab Vedotin in Previously Untreated Diffuse Large B-Cell Lymphoma. N Engl J Med. 2022;386(4):351-363.

# Acknowledgement

We acknowledge our patients, their care givers and the hematooncology team for their efforts.

### **Contact Information**

Presenting author: Dr. Thomas Eipe Contact: <a href="mailto:thomas7eipe@gmail.com">thomas7eipe@gmail.com</a> Corresponding author: Dr. Hasmukh Jain Contact: dr.hkjain@gmail.com