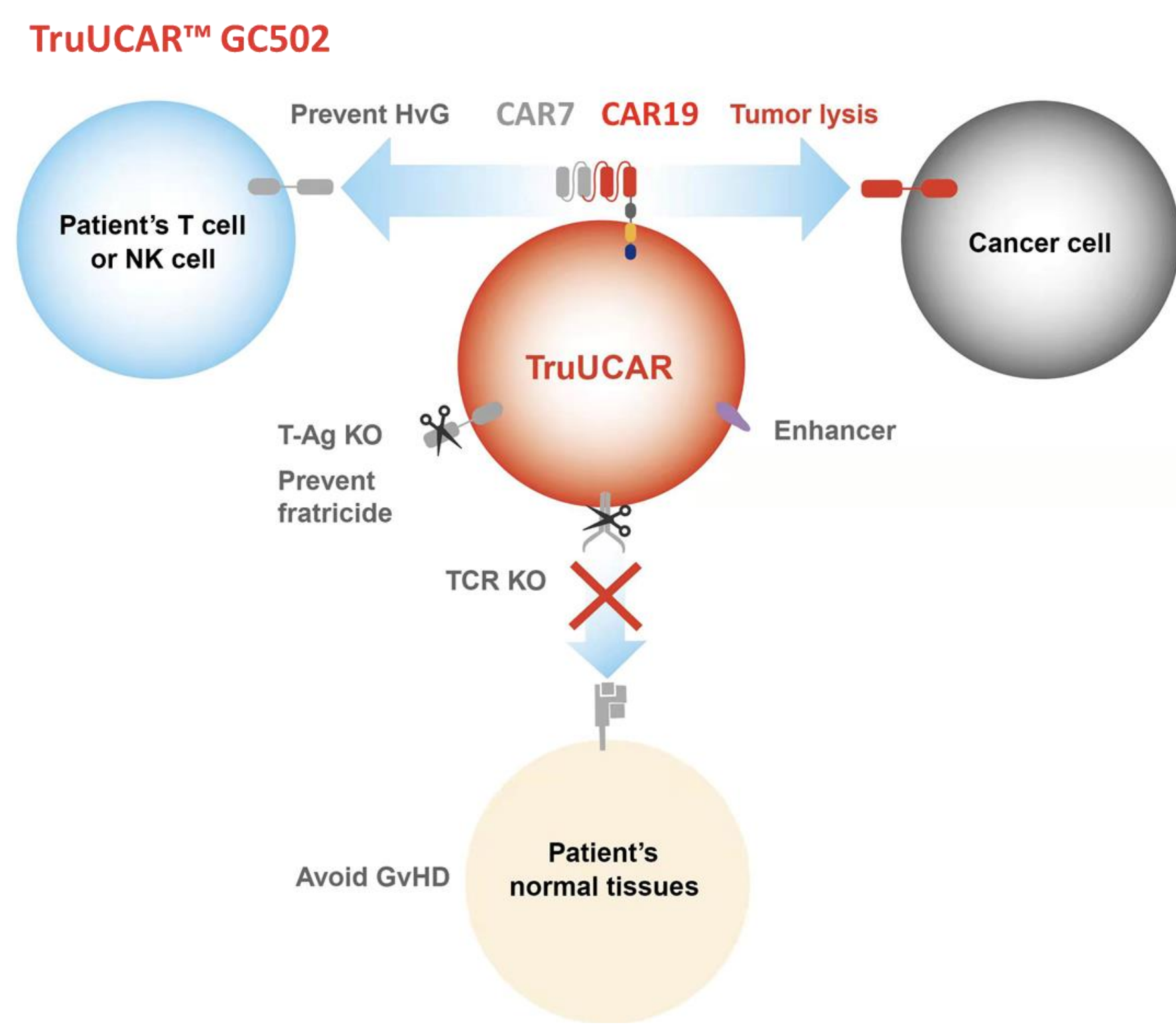
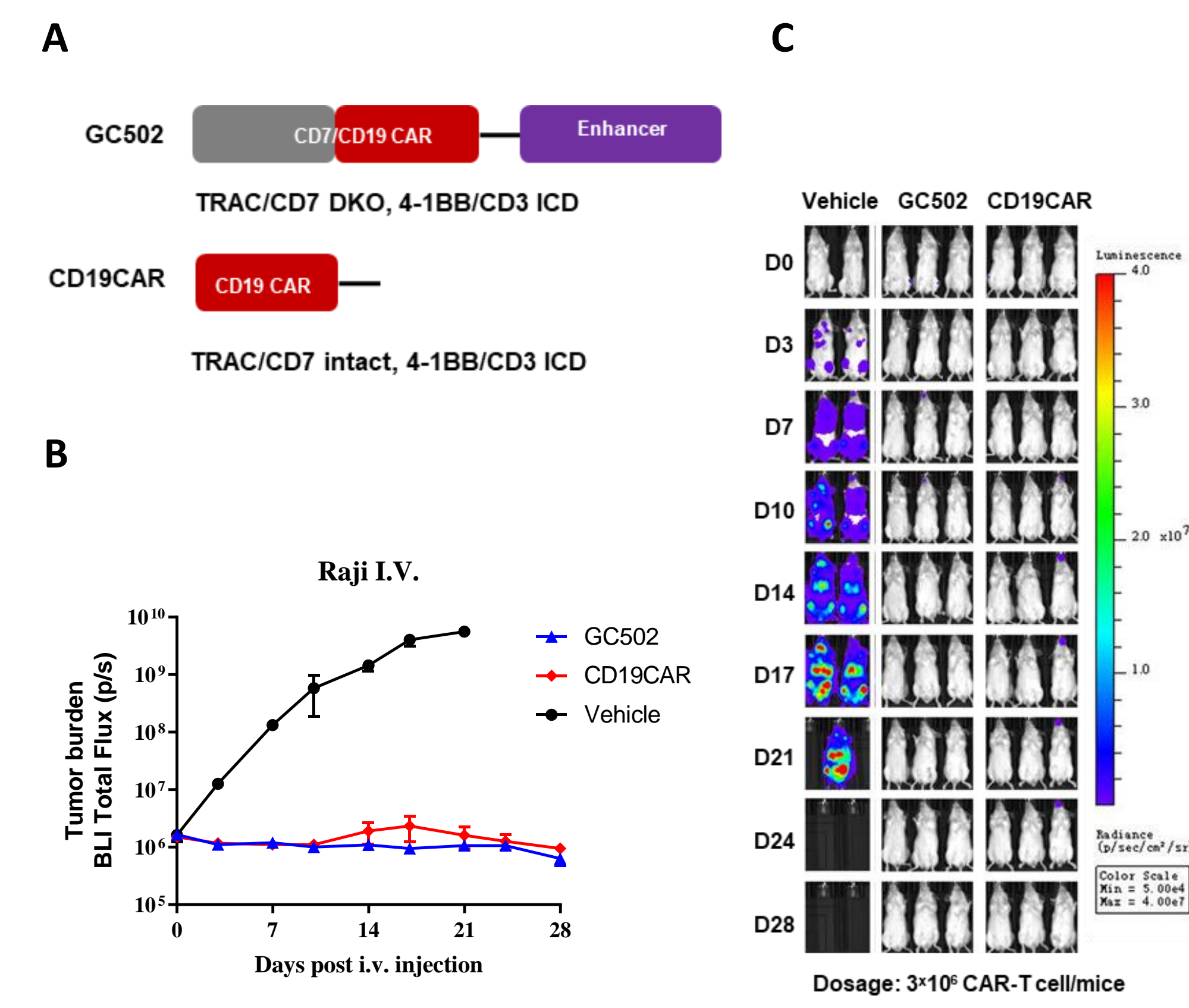


## BACKGROUND

- CD19 targeted autologous CAR-T cell therapies have been approved for the treatment of r/r B-ALL and greatly improved patient outcome. However, some patients may not be eligible to receive autologous CAR-T therapy due to inferior quality of their own T-cells or other factors.
- TruUCAR™ GC502 is an allogeneic, universal CAR-T product with a CD19/CD7 dual directed CAR. Preclinical data of GC502 were reported at ASH 2021 (Abstract 148500).
- Here, we report early clinical results from a phase I open-label, non-randomized, prospective investigator initiate trial (IIT) of GC502 in r/r B-ALL patients.



**Figure 1. GC502 Demonstrated Robust anti-leukemia Efficacy in a B-ALL Xenograft Model**



## METHODS

### Study Design

Single-arm, open-label study to evaluate the safety and anti-leukemia efficacy

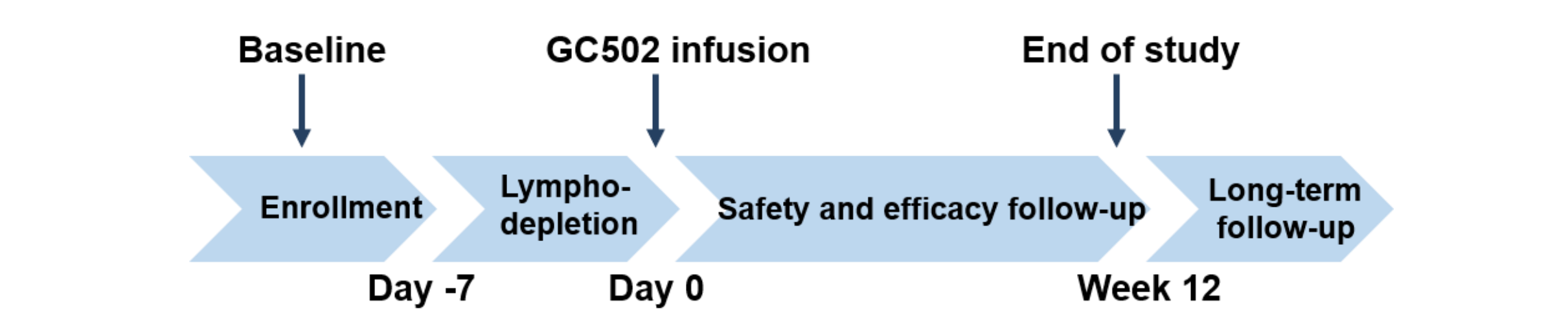
### Key inclusion criteria

- r/r B-ALL patients with CD19+ expression
- Expected survival > 3 months, ECOG score 0-1
- No active infection

### Endpoints

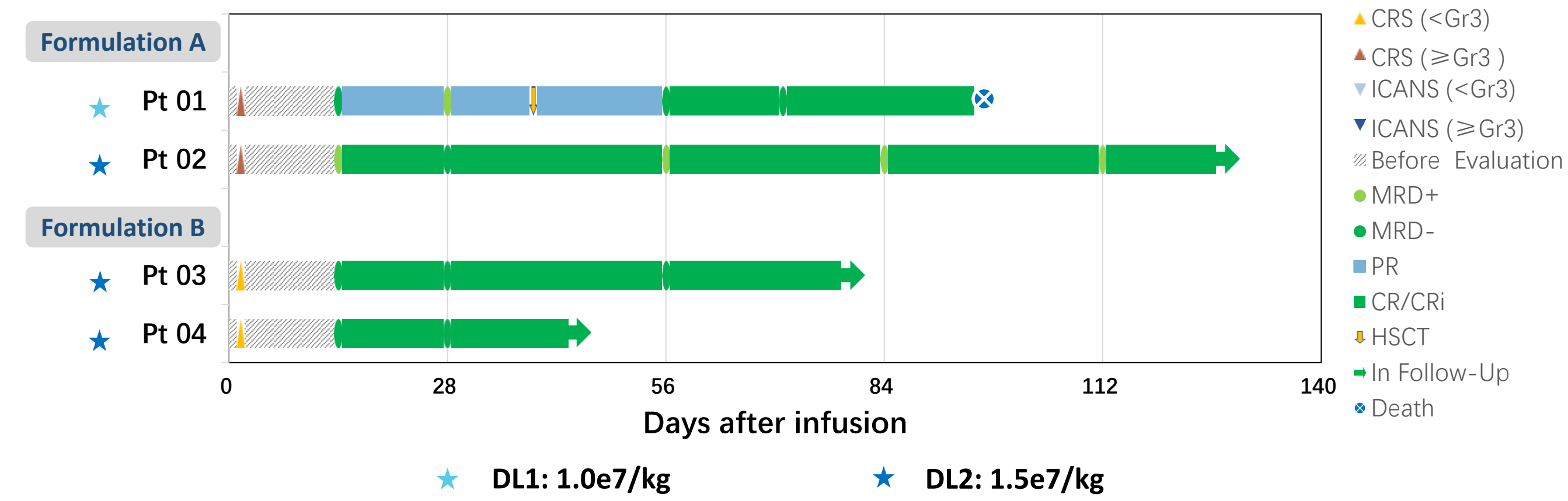
- Primary endpoint:
  - Dose limiting toxicities (DLTs) within 4 weeks post infusion
  - Adverse events within 12 weeks post infusion
- Secondary endpoints:
  - Objective response rate (ORR)
  - duration of response (DOR), Progression free survival (PFS), Overall survival (OS)
  - Pharmacokinetics (PK) of GC502 UCAR-T cells

**Figure 2. Study Design for NCT05105867**



## RESULTS

**Figure 3. Response Assessment Data cut-off as of Feb. 22<sup>nd</sup>, 2022**



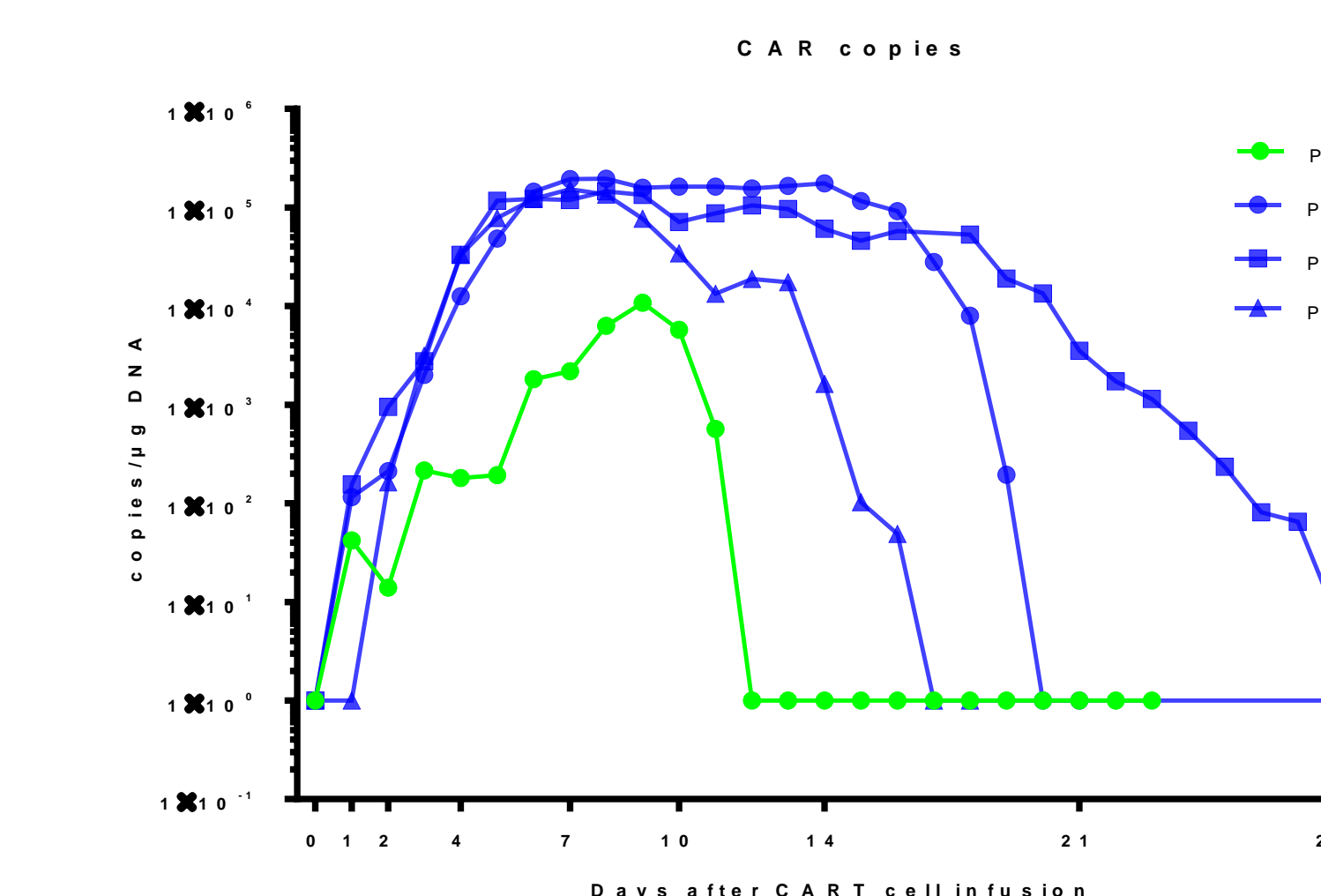
- 4 pts had received a single dose of GC502: 1 at 1x10<sup>7</sup>/kg, 3 at 1.5x10<sup>7</sup>/kg
- 3/4 pts achieved MRD- complete response (MRD- CR/CRi) and maintained through their last assessment
- 1 pt was assessed MRD- in BM but was assessed PR due to EM disease and received allo-HSCT at D39 and achieved MRD-CR however died of infection post transplant on day 95

**Table 2. Treatment emergent adverse events within 28 days**

N=4	All Grades (n, %)	Grade 1-2 (n, %)	Grade 3 (n, %)	Grade 4 (n, %)	Grade 5 (n, %)
<b>AEs related to GC502</b>					
Cytokine release syndrome (CRS)	4 (100)	2 (50)	2 (50)	0 (0)	0 (0)
Acute graft-versus-host disease (aGvHD)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
ICANS	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
<b>TEAEs</b>					
Febrile neutropenia	4 (100)	0 (0)	4 (100)	0 (0)	0 (0)
Anemia	4 (100)	1 (25)	3 (75)	0 (0)	0 (0)
Γ-GT increased	4 (100)	1 (25)	2 (50)	1 (25)	0 (0)
Thrombocytopenia	3 (75)	0 (0)	2 (50)	1 (25)	0 (0)
ALT increased	3 (75)	0 (0)	3 (75)	0 (0)	0 (0)
AST increased	2 (50)	0 (0)	2 (50)	0 (0)	0 (0)

AE, Adverse event; ICANS, Immune effector cell-associated neurotoxicity syndrome  
ICANS & CRS will be graded using the ASTCT Consensus Grading (Lee et al. 2019)  
AEs were graded according to CTCAE v5.0

**Figure 4. GC502 Expansion in Peripheral Blood**



Data cut-off as of Feb. 22<sup>nd</sup>, 2022

\*1 patient diagnosed with ph+; 1 patient had extramedullary lesions  
<sup>1</sup>Prior CART including CD19 and CD19-CD22 CART

## RESULTS

**Table 3. GC502 Expansion in Peripheral Blood was Analyzed by qPCR**

Patient #	Tumor Burden	Dose Level	Peak TruUCAR Copies/ug DNA
Pt 01	92%	1	10849 (Day9)
Pt 02	61%	2	195400 (Day8)
Pt 03	20%	2	146458 (Day8)
Pt 04	19.5%	2	153432 (Day7)

## CONCLUSIONS

Early results of TruUCAR™ GC502 in patients with r/r B-ALL demonstrate

- A very promising rate of responses at month 1 assessment (n=3 MRD-CR/CRi) in heavily pretreated patients including those who had received prior CAR-T therapies including CD19 and CD19-CD22 CAR-T
- TruUCAR™ GC502 showed manageable and reversible adverse events in 2 different dose levels and 2 different formulations
  - Formulation A: 2/2 Gr 3 CRS
  - Formulation B: 2/2 Gr 2 CRS
  - No Gr 4/5 CRS, no ICANS, no GVHD
- TruUCAR™ GC502 expansion observed in all patients
- The study is ongoing and continues to accrue pts

## ACKNOWLEDGEMENTS

We would like to thank the patients, their families, the investigators and all the caregivers involved in this study and Gracell Biotechnologies Ltd. for providing TruUCAR™ GC502.

## CONTACT INFORMATION

E-mail:  
Dr. Shiqi Li: Lystch@outlook.com