

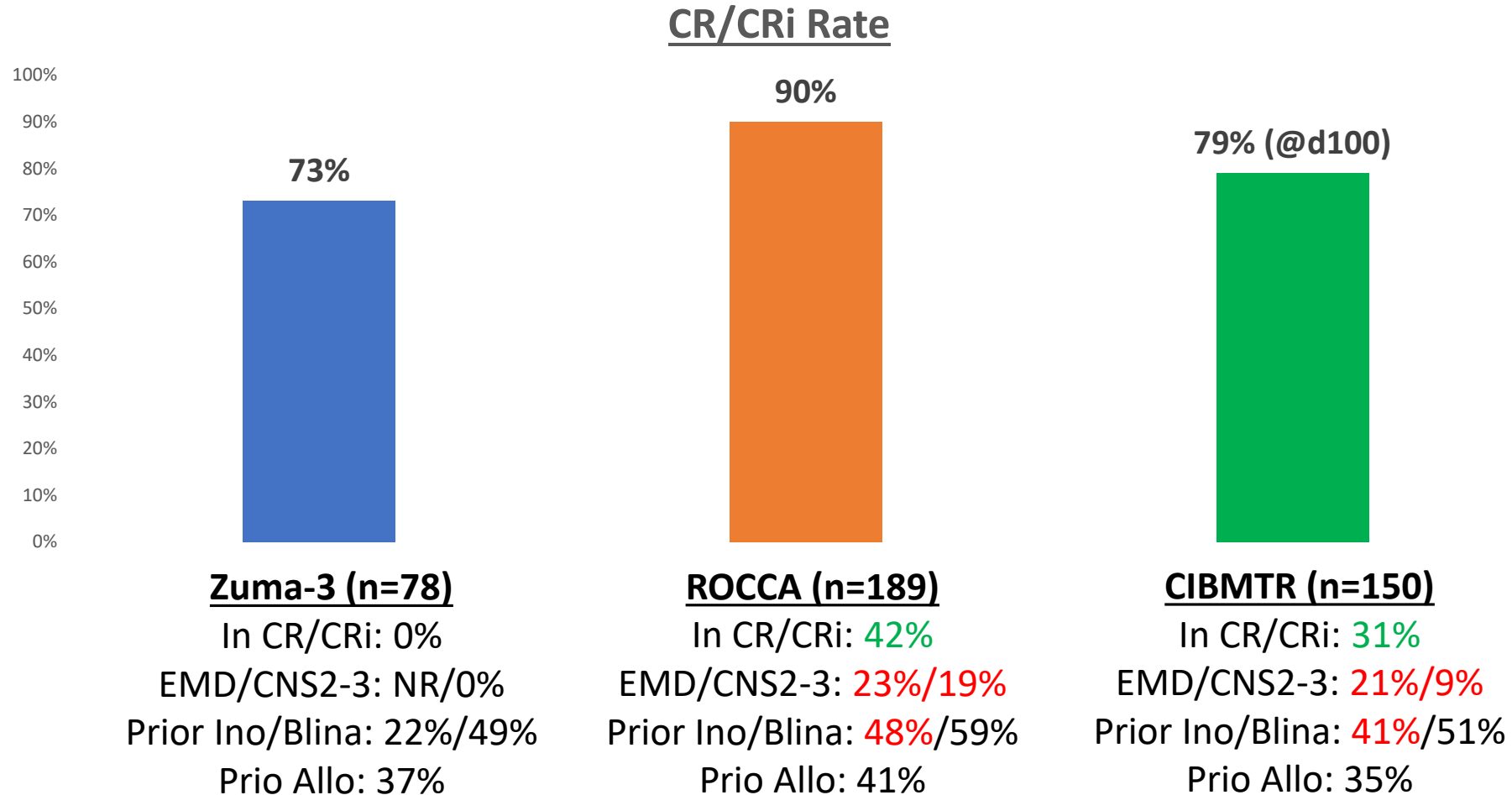
# CAR T-cell Therapy for B-ALL

Bijal Shah, MD, MS

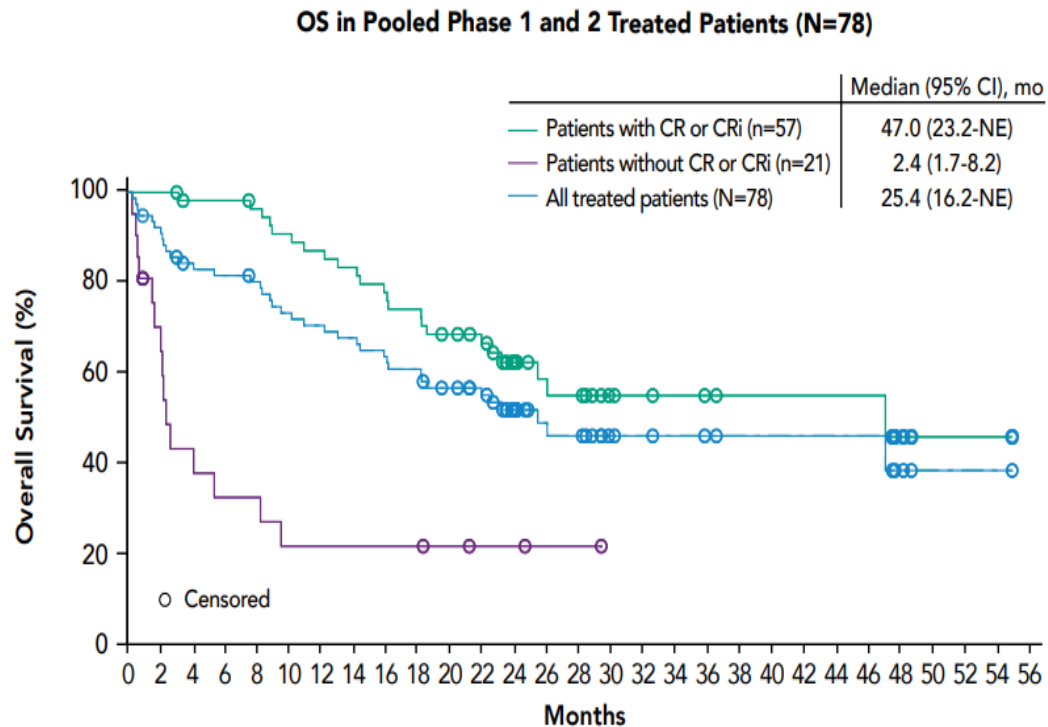
# Disclosures

- Consulting & Education:
  - Amgen, Pfizer, Novartis, BMS, Kite/Gilead, Precision Biosciences, Jazz, Beigene, Adaptive, Century Therapeutics, Autolus, Deciphera, Lilly, Takeda, Astra Zeneca
- Grants and Investigator Initiated Trials
  - Kite/Gilead, Jazz, Servier
- Steering Committee
  - PeproMene Bio

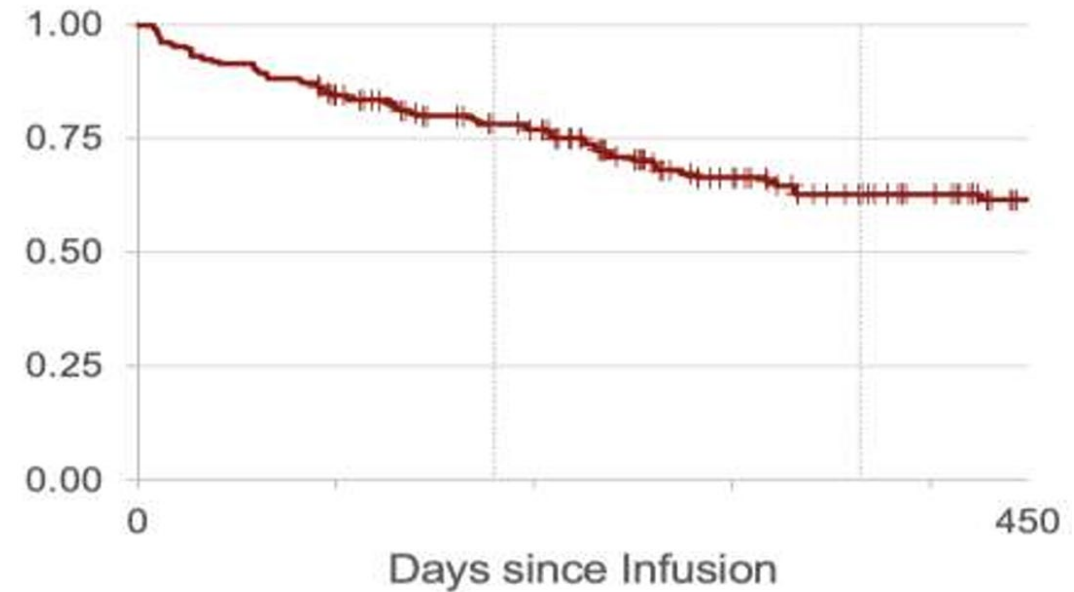
# ORR in Zuma-3 and in the Post-Approval Setting



# Overall Survival in Zuma-3 and in ROCCA

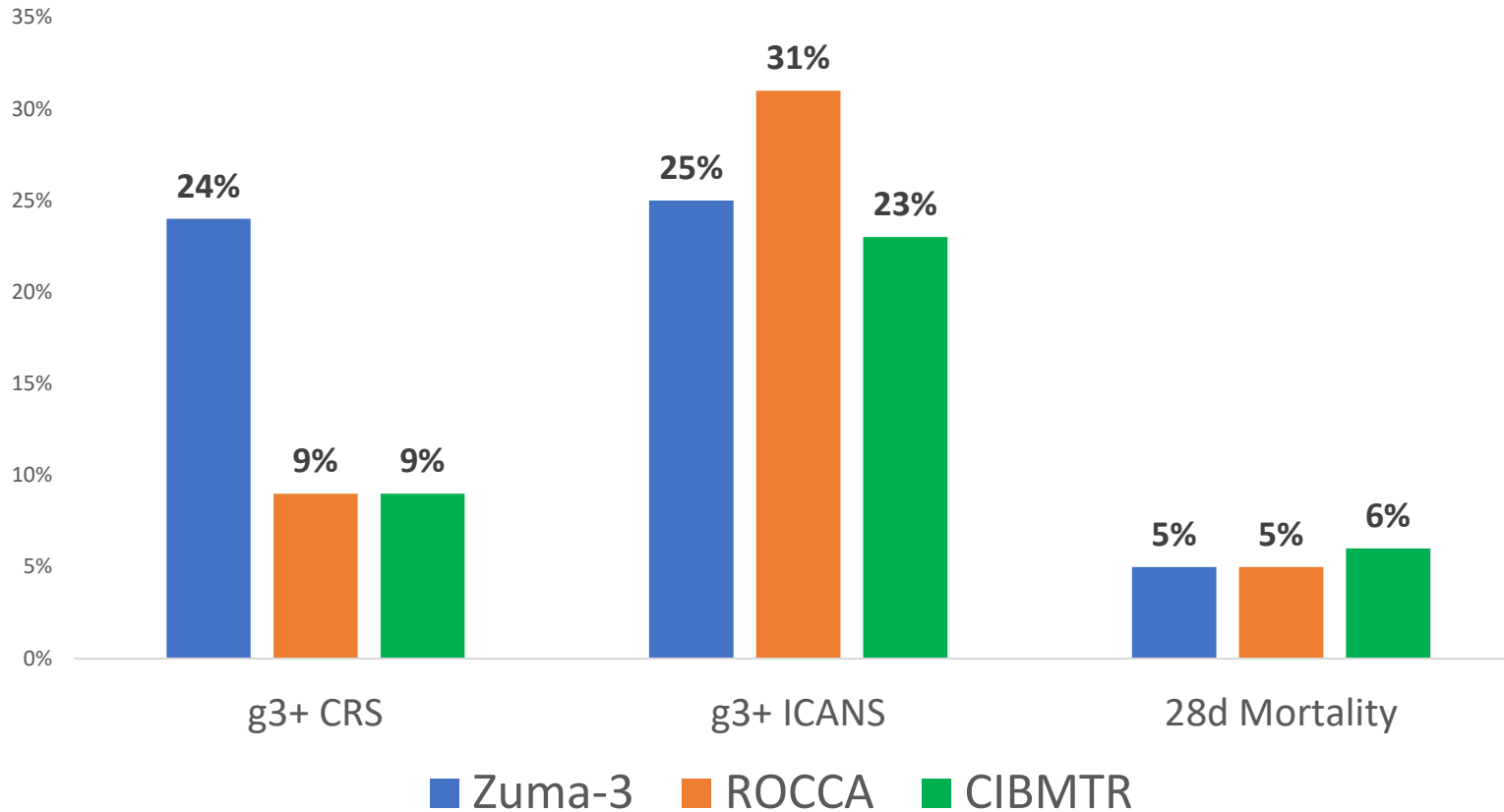


Median FU: 38.8mo, Est 12mo OS: 70%



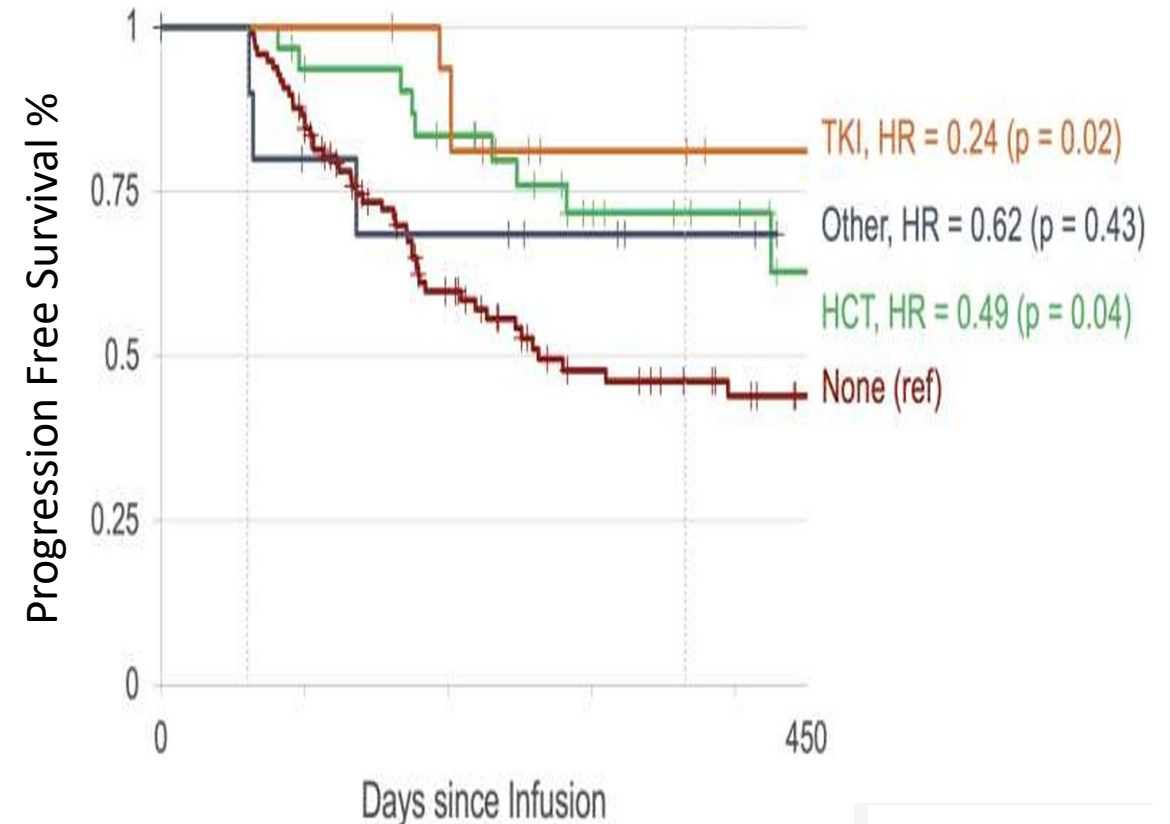
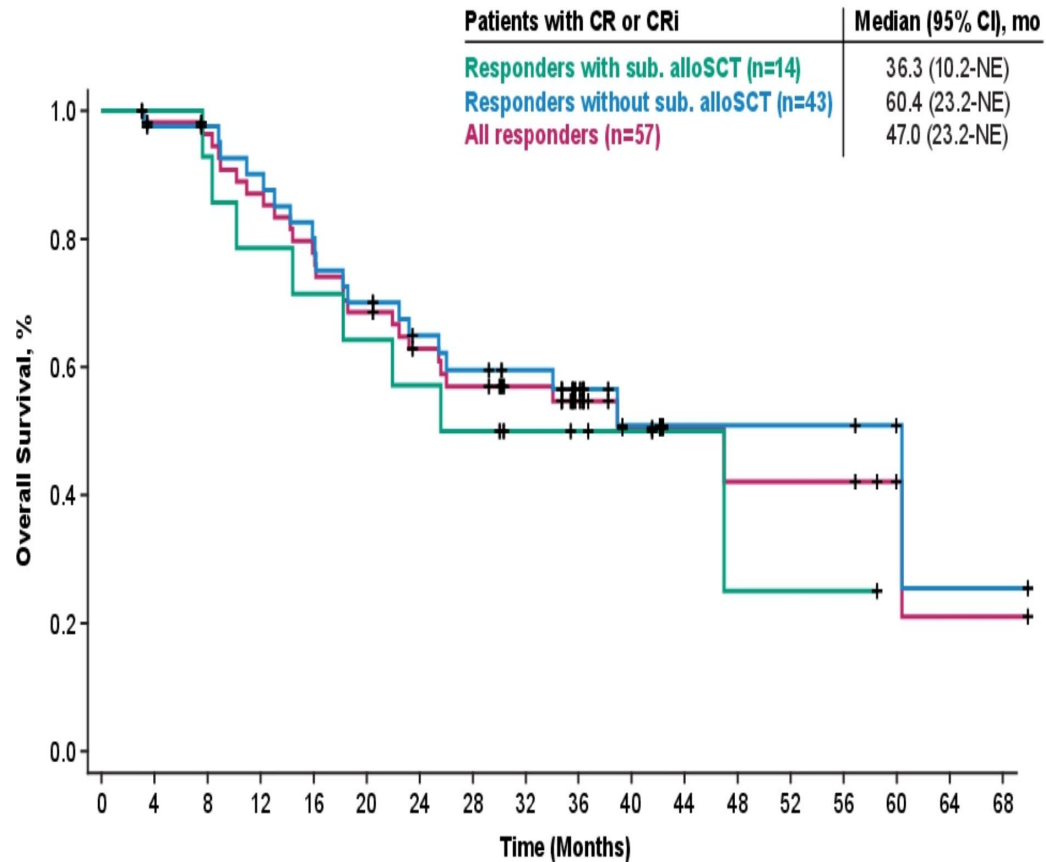
Median FU: 11.4mo, Est 12mo OS: 63%

# Toxicity Following Brexu-cel

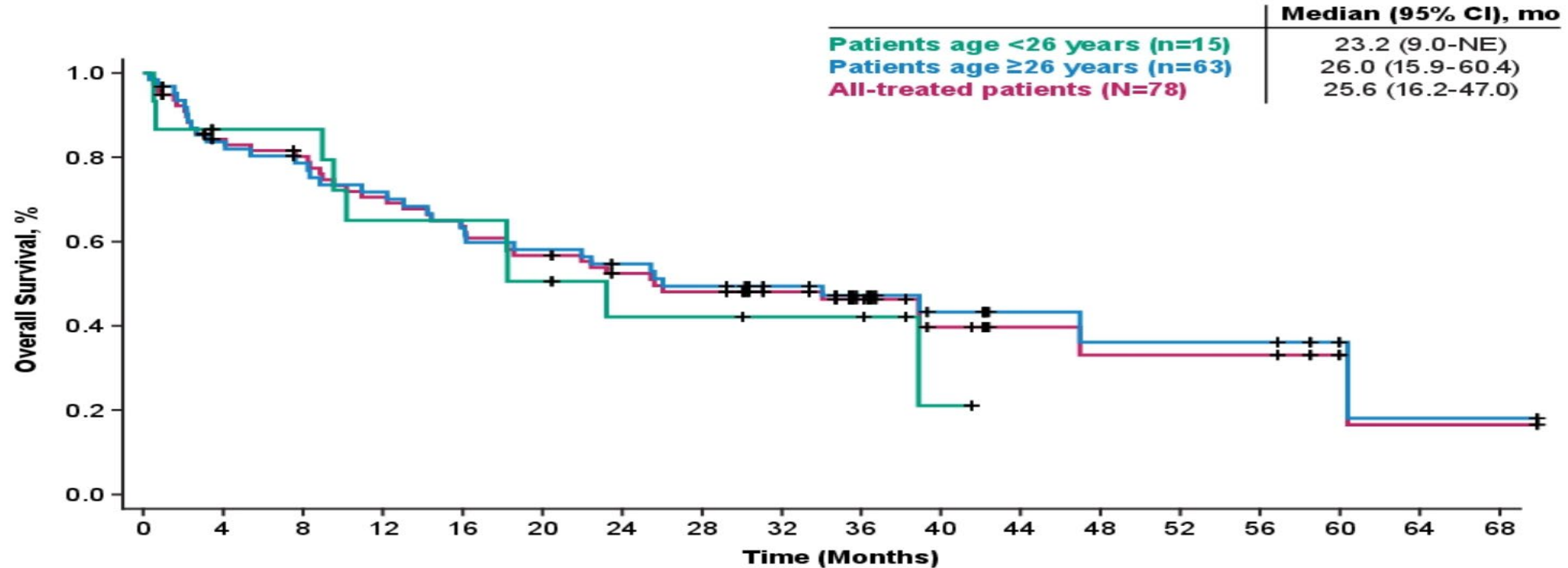


Among those in CR in the CIBMTR Registry, grade 3+ CRS was 0% & grade 3+ ICANS was 15%

# AlloSCT Post Brexu-cel on Zuma-3 & ROCCA



# Zuma 3: OS with Brexu-cel in AYA

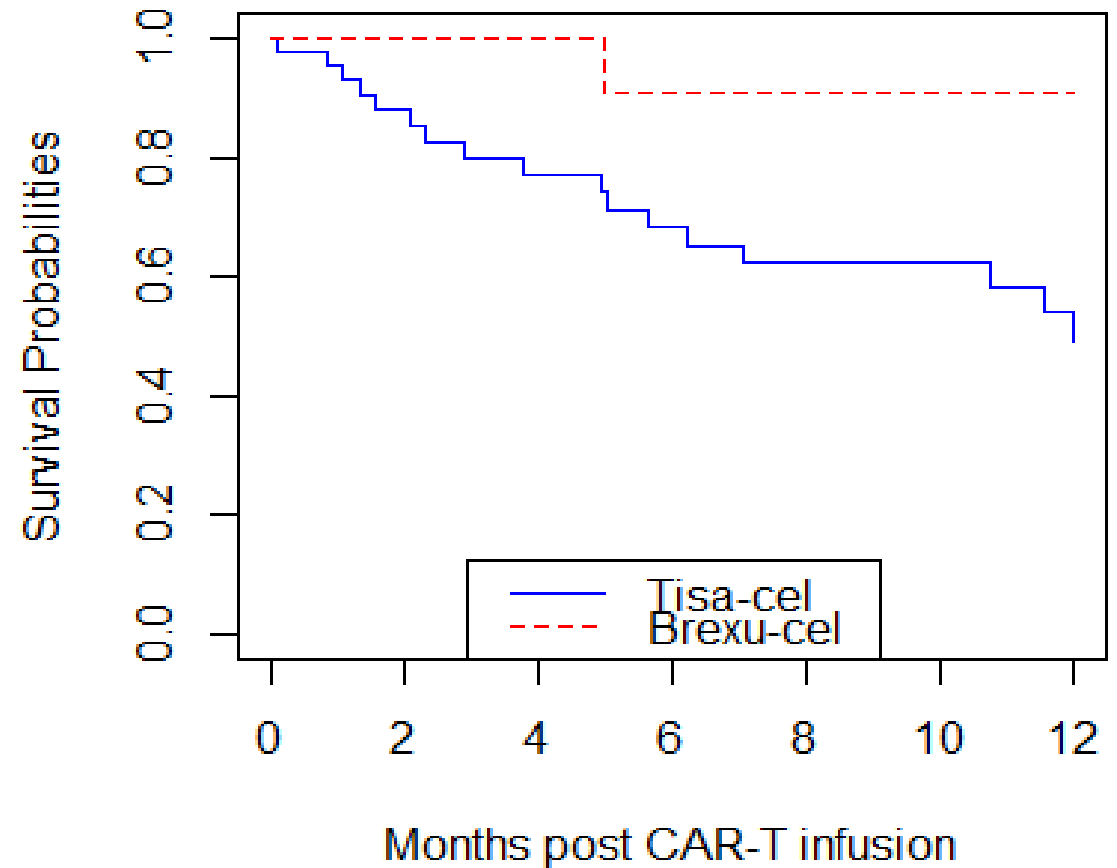


| Phase 1 and 2 <sup>a,d</sup> | 78 | 57 (73) | 47 (60) | 10 (13) | 6 (8) | 12 (15) | 18.6 (9.6-24.1) | 11.7 (6.1-20.5) |
|------------------------------|----|---------|---------|---------|-------|---------|-----------------|-----------------|
| <b>Age</b>                   |    |         |         |         |       |         |                 |                 |
| <26 years                    | 15 | 11 (73) | 9 (60)  | 2 (13)  | 1 (7) | 1 (7)   | 14.6 (0.7-NE)   | 15.5 (0.0-NE)   |
| ≥26 years                    | 63 | 46 (73) | 38 (60) | 8 (13)  | 5 (8) | 11 (17) | 20.0 (9.4-24.1) | 11.6 (5.6-22.1) |

# ROCCA: DOR with Brexu-cel in AYA

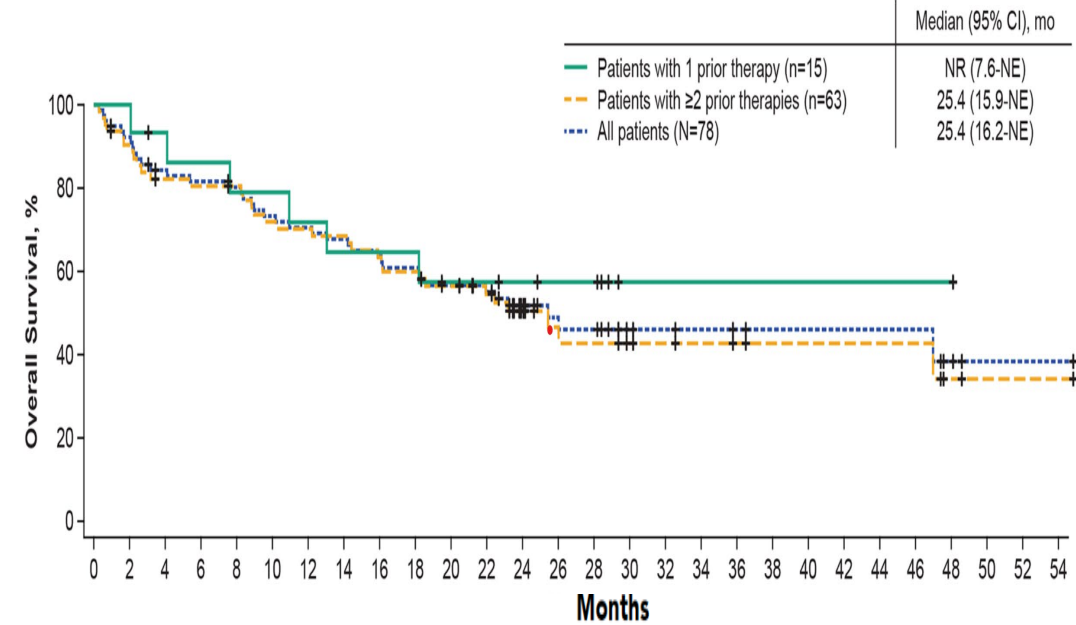
| Median Follow-Up       |                       |
|------------------------|-----------------------|
| Tisa-cel (n=44)        | Brexu-cel (n=16)      |
| 10.5 months (1.1-27.2) | 9.7 months (1.7-15.1) |

| Median duration of remission |             |
|------------------------------|-------------|
| Tisa-cel                     | Brexu-cel   |
| 12mo                         | Not reached |



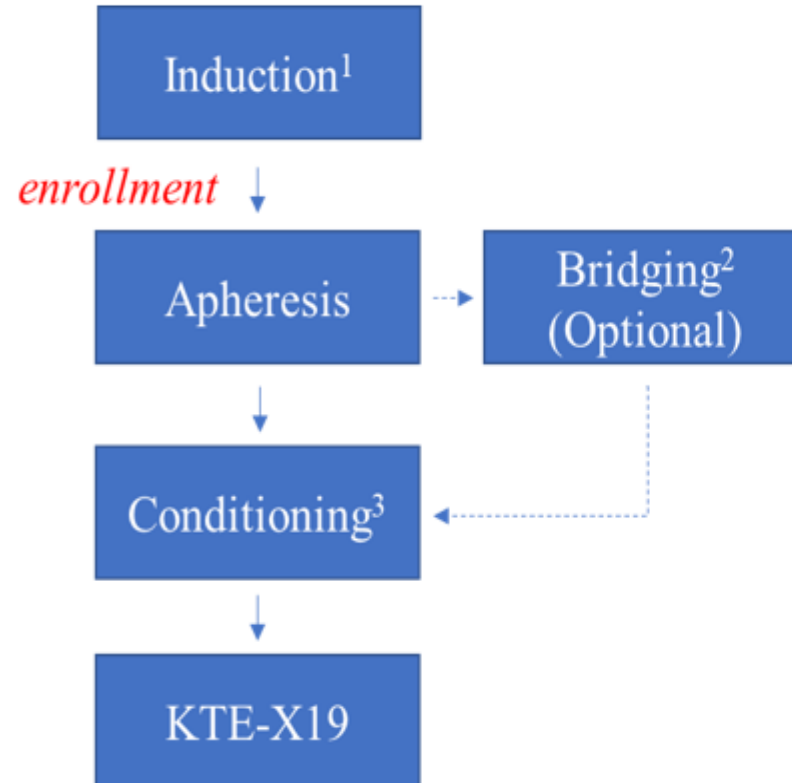
# Brexu-cel in Primary Refractory vs Late Relapse

|                 | Line                                    | N    | OCR | SCT | Med DOR | Med EFS/RFS | Med OS |
|-----------------|-----------------------------------------|------|-----|-----|---------|-------------|--------|
| Chemotherapy    | 1 <sup>st</sup> Relapse                 | 1618 | 40% | 28% | -       | -           | 5.8mo  |
| Inotuzumab      | 1 <sup>st</sup> Relapse                 |      | 78% | 52% | 5.8mo   | 5.4mo       | 8.6mo  |
| Blinatumomab    | 1 <sup>st</sup> Relapse                 | 104  | 51% | 29% | 10.7mo  | 1.9mo       | 11.1mo |
|                 |                                         |      |     |     |         |             |        |
| Zuma3 (Phase 2) | Refractory,<br>≥2 <sup>nd</sup> Relapse | 55   | 71% | 20% | 18.6mo  | 11.6mo      | 26mo   |



# Moving Forward

- Earlier integration of CAR with lower disease burden may allow for improved outcomes



<sup>1</sup>Induction options are predefined. Consolidation is not permitted.

<sup>2</sup>Bridging with vincristine and dexamethasone (for PH-) or a TKI (for PH+) is optional only for those with blasts 0.1%-5% post induction. Those with less than 0.1% blasts will be observed.

<sup>3</sup>A bone marrow biopsy with MRD quantification prior to conditioning therapy will be repeated for all patients independent of receipt of bridging therapy.

# Summary

- Estimates of efficacy appear consistent with clinical trial data
- Post-approval, a higher percentage of patients are being treated with low marrow burden, which may be associated with improved safety
- Consolidation after Brexu-cel remains an active area of exploration

