# Subgroup Analyses of KTE-X19, an Anti-CD19 Chimeric Antigen Receptor T-cell Therapy, in Adult Patients With Relapsed or Refractory B-cell Acute Lymphoblastic Leukemia in ZUMA-3

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#### BACKGROUND

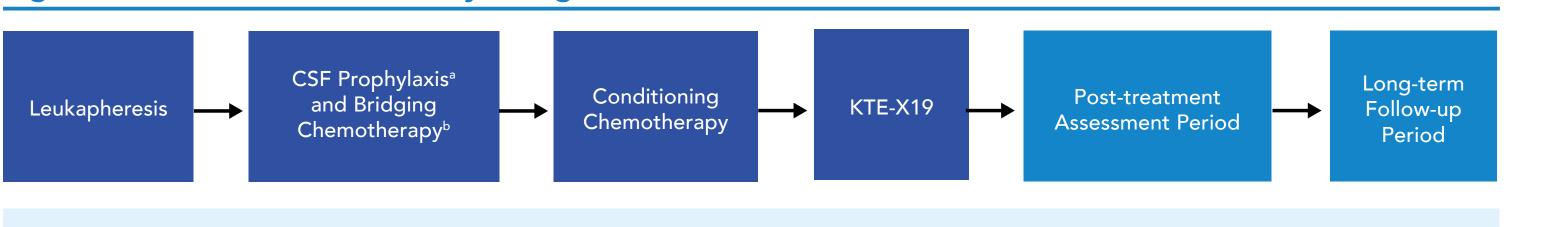
- Adult patients with relapsed or refractory (R/R) B-precursor acute lymphoblastic leukemia (B-ALL) have poor overall survival (OS; 1-year rate, 26%) after salvage therapies, and outcomes worsen with subsequent relapses<sup>1,2</sup>
- Although novel agents such as blinatumomab have improved outcomes in R/R B-ALL, the median OS with blinatumomab is <8 months in adult
- Brexucabtagene autoleucel (KTE-X19) is an autologous anti-CD19 chimeric antigen receptor (CAR) T-cell therapy approved in the United States to treat adults with R/R B-ALL (based on the positive results of the ZUMA-3 study) and adults with R/R mantle cell lymphoma<sup>5</sup>
- In the pivotal Phase 2 portion of ZUMA-3, KTE-X19 demonstrated compelling efficacy and a manageable safety profile in heavily pretreated adults with R/R B-ALL<sup>6</sup>
- At a median follow-up of 16.4 months (N=55), the overall complete remission (CR) rate (including CR with incomplete hematologic recovery [CRi]) was 71% (95% CI, 57-82) and median OS was 18.2 months
- Here, we report the outcomes of prior treatment subgroups after >2 years of follow-up in Phase 2 treated patients and in a pooled analysis of Phase 1 and 2 patients who received the pivotal dose of KTE-X19

# **OBJECTIVE**

• To evaluate safety and efficacy outcomes in ZUMA-3 by prior number of therapy lines, prior blinatumomab, prior allogeneic stem cell transplant (alloSCT), and subsequent alloSCT in Phase 2 treated patients and in a larger pooled analysis of Phase 1 and 2 patients treated with the pivotal dose of KTE-X19 (1×10<sup>6</sup> CAR T cells/kg)

# **METHODS**

Figure 1. ZUMA-3 Phase 2 Study Design<sup>6</sup>



**Key Eligibility Criteria**• ≥18 years of age with R/R B-ALL<sup>c</sup> and BM blasts >5% Patients could have received prior blinatumomab and/or prior alloSCT

Fludarabine 25 mg/m $^2$  IV on Days -4, -3, -2and cyclophosphamide 900 mg/m<sup>2</sup> IV on Day -2

• 1×106 anti-CD19 CAR T cells/kg on Day 0

Overall CR rate (CR + CRi) by central assessment

**Key Secondary Endpoints** 

Subsequent alloSCT

CAR T-cell levels in blood (exploratory)

All patients received CSF prophylaxis consisting of an intrathecal regimen according to institutional or national guidelines. Bridging chemotherapy was recommended for all patients particularly those with >25% marrow blasts or >1000 blasts/uL of peripheral blood at screening, per physician's discretion. c R/R disease was defined as primary refractory, first relapse with remission ≤12 months, R/R after ≥2 prior lines of systemic therapy or relapsed after alloSCT. alloSCT, allogeneic stem cell transplant; B-ALL, B-precursor acute lymphoblastic leukemia; BM, bone marrow; CAR, chimeric antigen receptor; CR, complete remission; CRi, complete remission with incomplete hematologic recovery; CSF, cerebrospinal fluid; DOR, duration of remission; IV, intravenous; OS, overall survival; RFS, relapse-free survival; R/R, relapsed/refractory.

- Post hoc efficacy and safety assessments of subgroups in ZUMA-3 are reported in both Phase 2 treated patients (N=55) and in a newly conducted pooled analysis of Phase 1 and 2 patients who were treated with the pivotal dose of KTE-X19 (N=78) by
- Prior number of therapy lines (1 prior line and ≥2 prior lines)
- Prior blinatumomab therapy (prior blinatumomab and blinatumomab naive) Prior alloSCT (prior alloSCT and no prior alloSCT)
- Subsequent alloSCT (subsequent alloSCT and no subsequent alloSCT)
- Subsequent alloSCT was allowed per investigator discretion but was not protocol defined
- Statistical analyses
- Efficacy outcomes were assessed by independent central review Time-to-event endpoints were analyzed using the Kaplan-Meier method
- Prespecified subgroup analyses were descriptive

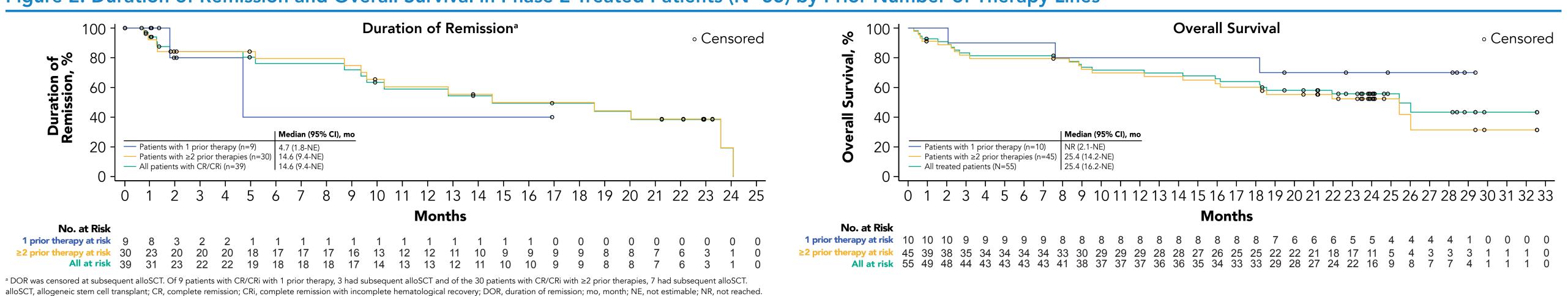
Data cutoff: July 23, 2021

# **RESULTS**

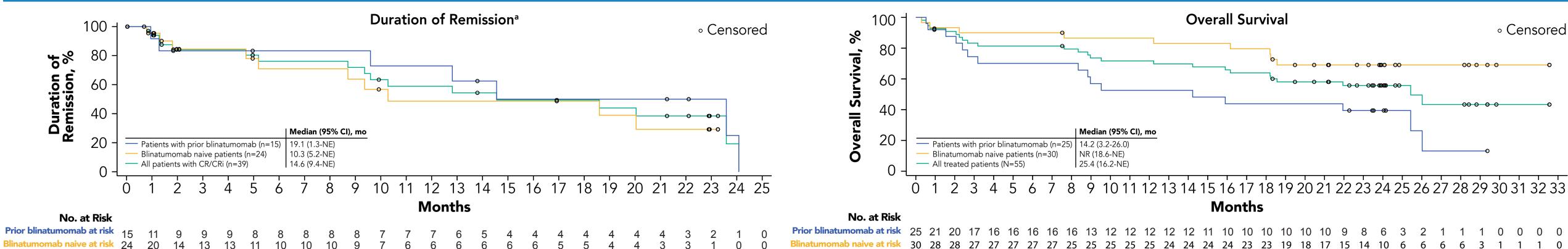
- Median follow-up time was 26.8 months (range, 20.7-32.6) for Phase 2 treated patients (N=55) and 29.7 months (range, 20.7-58.3) for pooled Phase 1 and 2 patients (N=78)
- As previously reported, most Phase 2 patients were heavily pretreated, with a median number of 2 prior therapies and almost half (47%) having
- received ≥3 prior therapies<sup>6</sup> Among Phase 2 treated patients at baseline
- 10 patients (18%) had 1 prior line of therapy; 45 patients (82%) had ≥2 prior lines of therapy
- 25 patients (45%) received prior blinatumomab; 30 patients (55%) were blinatumomab naive
- 12/25 blinatumomab-exposed patients (48%) had blinatumomab as their last therapy prior to receiving KTE-X19, with a median time from blinatumomab to KTE-X19 of 4.9 months (range 2.5-45.7) in these patients
- 23 patients (42%) received prior alloSCT; 32 patients (58%) did not
- 5/23 previously transplanted patients (22%) had prior alloSCT as their last therapy prior to receiving KTE-X19, with a median time from
- alloSCT to KTE-X19 of 11.7 months (range, 9.1-45.3) in these patients
- Most baseline patient and disease characteristics were largely similar among subgroups examined

# RESULTS (Continued)

and Overall Survival in Phase 2 Treated Patients (N=55) by Prior Number of Therapy Lines

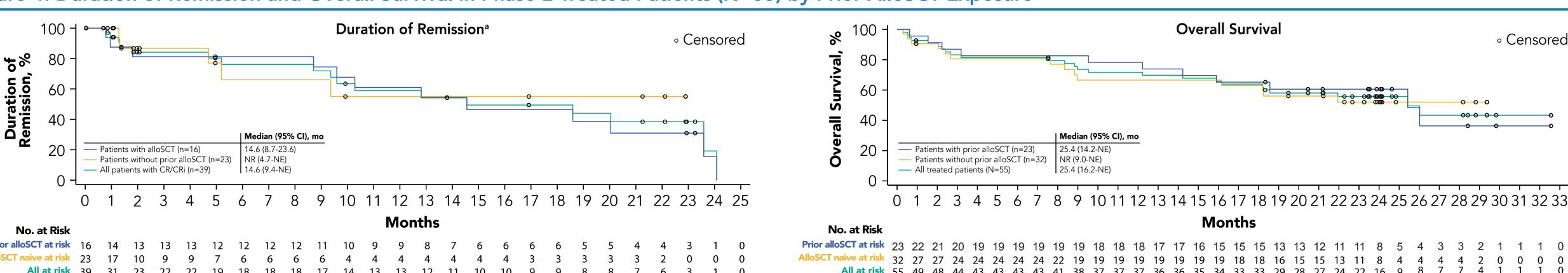


- Median OS was not reached in Phase 2 patients with 1 prior therapy and was 25.4 months in patients with ≥2 prior therapies (**Figure 2**)
- Figure 3. Duration of Remission and Overall Survival in Phase 2 Treated Patients (N=55) by Prior Blinatumomab Exposure



Blinatumomab naive at risk 30 28 28 27 27 27 27 27 25 25 25 25 25 24 24 24 24 23 23 19 18 17 15 14 10 6 6 6 6 3 1 1 1 0 All at risk 55 49 48 44 43 43 43 43 41 38 37 37 37 36 36 35 34 33 33 29 28 27 24 22 16 9 8 7 7 4 1 1 1 0 Blinatumomab naive at risk 24 20 14 13 13 11 10 10 10 9 7 6 6 6 6 6 6 5 5 4 4 3 3 1 0 DOR was censored at subsequent alloSCT. Of 15 patients with CR/CRi with prior blinatumomab, 3 had subsequent alloSCT and of the 24 patients with CR/CRi without prior blinatumomab, 7 had subsequent alloSCT

- In Phase 2 patients who were blinatumomab naive, median OS was not reached vs 14.2 months in those with prior blinatumomab exposure (Figure 3)
- Figure 4. Duration of Remission and Overall Survival in Phase 2 Treated Patients (N=55) by Prior AlloSCT Exposure



DOR was censored at subsequent alloSCT. Of 16 patients with CR/CRi with prior alloSCT, 0 had subsequent alloSCT and of the 23 patients with CR/CRi without prior alloSCT, 10 had subsequent alloSCT.

alloSCT, allogeneic stem cell transplant; CR, complete remission; CRi, complete remission with incomplete hematological recovery; DOR, duration of remission; mo, month; NE, not estimable; NR, not reached.

Prior alloSCT at risk 23 22 21 20 19 19 19 19 19 19 18 18 18 17 17 16 15 15 15 13 13 12 11 11 8 5 4 3 3 2 1 1 1 0 AlloSCT naive at risk 32 27 27 24 24 24 24 24 22 19 19 19 19 19 19 19 18 18 16 15 15 13 11 8 4 4 4 2 0 0 0 0 All at risk 55 49 48 44 43 43 43 43 41 38 37 37 37 36 36 35 34 33 33 29 28 27 24 22 16 9 8 7 7 4 1 1 1 0

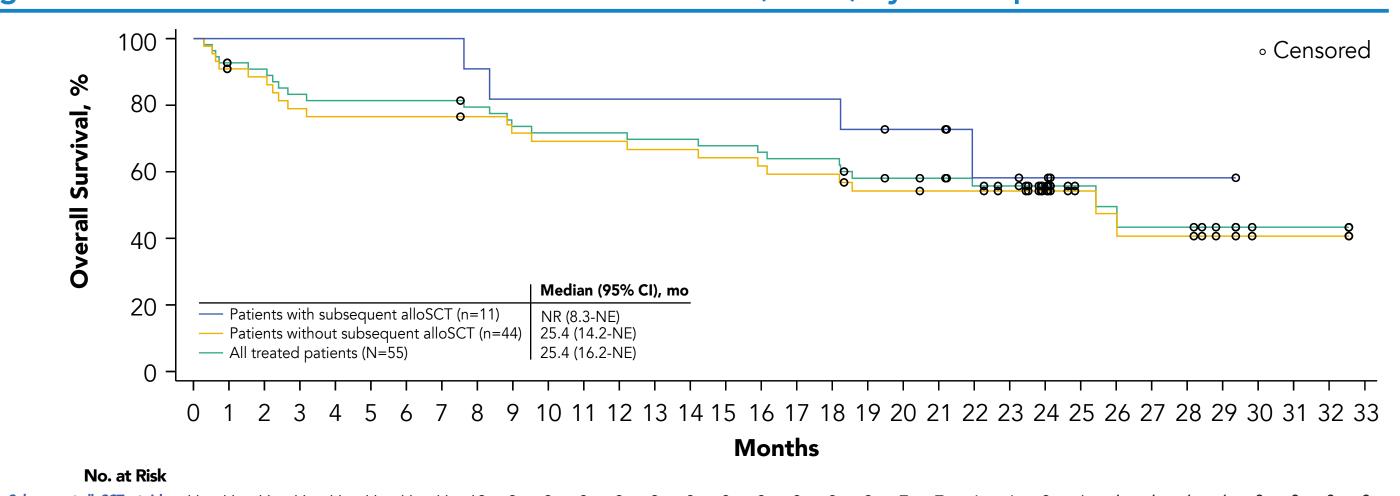
- After a median follow-up of 26.8 months, the median OS was not reached in Phase 2 patients without prior alloSCT and was 25.4 months for those who had received prior alloSCT (Figure 4)
- Table 1. Efficacy and Durability Outcomes in All Phase 2 Treated Patients and Pooled Phase 1 and 2 Treated Patients by Prior Therapies

	N	Overall CR rate, n (%)ª	CR, n (%) <sup>a</sup>	CRi, n (%) <sup>a</sup>	BFBM, n (%)ª	No response, n (%)ª	Median DOR, mo (95% CI) <sup>b</sup>	Median RFS, mo (95% CI) <sup>b</sup>	Median OS, mo (95% CI)
Phase 2 treated	55	39 (71)	31 (56)	8 (15)	4 (7)	9 (16)	14.6 (9.4-NE)	11.6 (2.7-20.5)	25.4 (16.2-NE)
Lines of prior therapy									
1	10	9 (90)	8 (80)	1 (10)	1 (10)	0	4.7 (1.8-NE)	5.6 (0.0-NE)	NR (2.1-NE)
≥2	45	30 (67)	23 (51)	7 (16)	3 (7)	9 (20)	14.6 (9.4-NE)	11.0 (1.8-15.5)	25.4 (14.2-NE)
Prior blinatumomab	•				•				
Yes	25	15 (60)	10 (40)	5 (20)	2 (8)	6 (24)	19.1 (1.3-NE)	11.6 (0.0-25.4)	14.2 (3.2-26.0)
No	30	24 (80)	21 (70)	3 (10)	2 (7)	3 (10)	10.3 (5.2-NE)	11.7 (2.8-22.1)	NR (18.6-NE)
Prior alloSCT									
Yes	23	16 (70)	13 (57)	3 (13)	2 (9)	4 (17)	14.6 (8.7-23.6)	11.7 (0.0-20.5)	25.4 (14.2-NE)
No	32	23 (72)	18 (56)	5 (16)	2 (6)	5 (16)	NR (4.7-NE)	6.1 (2.2-NE)	NR (9.0-NE)
Pooled Phase 1 and 2 patients <sup>c</sup>	78	57 (73)	47 (60)	10 (13)	6 (8)	12 (15)	18.6 (9.6-NE)	11.7 (6.1-20.5)	25.4 (16.2-NE)
Lines of prior therapy									
1	15	13 (87)	12 (80)	1 (7)	1 (7)	1 (7)	4.9 (1.8-NE)	6.1 (2.8-NE)	NR (7.6-NE)
≥2	63	44 (70)	35 (56)	9 (14)	5 (8)	11 (17)	20.0 (10.3-NE)	11.7 (2.7-20.5)	25.4 (15.9-NE)
Prior blinatumomab									
Yes	38	24 (63)	18 (47)	6 (16)	4 (11)	8 (21)	14.6 (9.6-NE)	7.3 (0.0-15.5)	15.9 (8.3-25.4)
No	40	33 (83)	29 (73)	4 (10)	2 (5)	4 (10)	18.6 (5.2-NE)	11.7 (6.1-NE)	47.0 (18.6-NE)
Prior alloSCT									
Yes	29	22 (76)	17 (59)	5 (17)	2 (7)	4 (14)	14.6 (8.7-23.6)	12.3 (2.7-20.5)	25.4 (14.2-NE)
No	10	25 /71\	30 (61)	5 (10)	/I (Q)	Q (1 L)	NID (5.2 NIE)	10 3 /2 7 NIE)	17 0 (10 0 NE)

Assessed by independent central review. Overall CR rate includes CR + CRi. b Patients censored at subsequent alloSCT. c Pooled analysis of Phase 1 and 2 patients who received the pivotal dose of KTE-X19. alloSCT, allogeneic stem cell transplant; BFBM, blast-free hypoplastic or aplastic bone marrow; BM, bone marrow; CR, complete remission; mo, month; NE, not estimable; NR, not reached; OS, overall survival; RFS, relapse-free survival

- Response rates in each prior therapy subgroup were largely consistent with the all treated population (**Table 1**)
- Efficacy and durability outcomes in the pooled population of Phase 1 and 2 patients were similar to those observed in Phase 2 patients (**Table 1**)

#### Figure 5. Overall Survival in Phase 2 Treated Patients (N=55) by Subsequent AlloSCT



<sup>a</sup> This was a single arm study with limited numbers in some subgroups. Subsequent alloSCT was allowed per investigator discretion but was not protocol defined. alloSCT, allogeneic stem cell transplant; mo, month; NE, not estimable; NR, not reached.

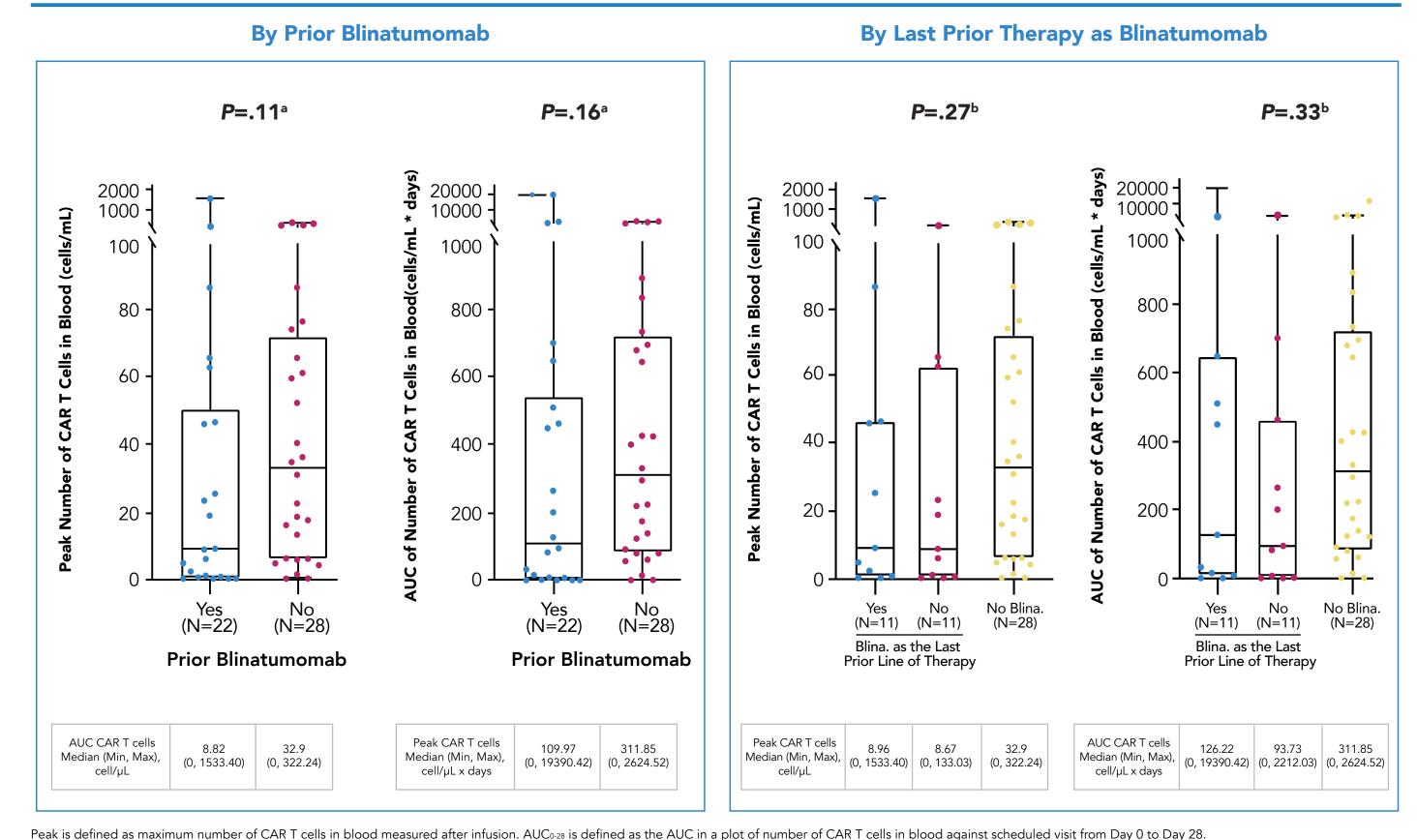
- Eleven of the 55 treated patients (18%; 10 CR/CRi, 1 blast-free hypoplastic or aplastic bone marrow) in Phase 2 proceeded to subsequent
- At data cutoff, the median OS was not reached in patients who received subsequent alloSCT and was 25.4 months in patients without subsequent alloSCT (**Figure 5**)

#### Table 2. Summary of CRS and Neurologic Events in All Phase 2 Treated Patients (N=55) by **Prior Therapies**

	Prior Lines	of Therapy	Prior Blina	atumomab	Prior AlloSCT	
	1 (n=10)	≥2 (n=45)	Yes (n=25)	No (n=30)	Yes (n=23)	No (n=32)
CRS, n (%)						
Grade 1	4 (40)	7 (16)	2 (8)	9 (30)	5 (22)	6 (19)
Grade 2	4 (40)	21 (47)	13 (52)	12 (40)	11 (48)	14 (44)
Grade ≥3	1 (10)	12 (27)	6 (24)	7 (23)	4 (17)	9 (28)
Neurologic events, n (%)						
Grade 1	2 (20)	4 (9)	2 (8)	4 (13)	2 (9)	4 (13)
Grade 2	1 (10)	12 (27)	7 (28)	6 (20)	4 (17)	9 (28)
Grade ≥3	3 (30)	11 (24)	5 (20)	9 (30)	6 (26)	8 (25)

• Incidences of Grade ≥3 cytokine release syndrome and neurologic events were largely similar among prior therapy subgroups (**Table 2**)

### Figure 6. Peak and Area Under the Curve CAR T-cell Levels by Prior Blinatumomab in Phase 2 Treated Patients (N=55)



<sup>a</sup> *P* value is calculated by Wilcoxon rank sum test. <sup>b</sup> *P* value is calculated by Kruskal-Wallis test. AUC, area under the curve; blina., blinatumomab; CAR, chimeric antigen receptor; max, maximum; min, minimum.

• Although median peak CAR T-cell expansion appeared to trend lower (~3 fold) in patients with prior blinatumomab exposure vs those without, the differences were not statistically significant regardless of whether blinatumomab was the last prior therapy before CAR T-cell infusion, potentially due to small sample size (**Figure 6**)

### CONCLUSIONS

- With longer follow-up, adult patients with R/R B-ALL continue to benefit from KTE-X19, with manageable safety, regardless of prior lines of therapy or prior exposure to blinatumomab or alloSCT
- Survival appeared better in patients without these prior therapies and in earlier lines of therapy; however, subgroups were not matched for disease burden prior to KTE-X19 infusion and there were limited patient numbers in some subgroups
- The similar results observed in the pooled analysis of Phase 1 and 2 patients further support the subgroup outcomes described in Phase 2 patients
- Patients receiving subsequent alloSCT appeared to have longer DOR and OS compared with patients who did not receive subsequent alloSCT; however, patient numbers were limited
- CAR T-cell expansion trended lower in patients with prior blinatumomab exposure than in blinatumomab-naive patients, but the differences were not statistically significant; however, given the small sample size, the interpretation of this result is

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## **DISCLOSURES**

**BDS:** honoraria from Pharmacyclics, Janssen, Acrotech, Spectrum, BeiGene, and Gilead Sciences; consultancy or advisory role for Adaptive Biotechnologies, Bristol Myers Squibb/Celgene, Novartis, Pfizer, Amgen, Precision Biosciences, and Kite; research funding from Incyte, Jazz Pharmaceuticals, Gilead Sciences, and Kite; and travel support from Celgene, Novartis, Pfizer, Janssen, Seattle Genetics, Stemline Therapeutics, and Kite. RDC: Spouse employment with Seagen; stock or other ownership in Seagen; honoraria from Amgen, Pfizer, and Kite; consultancy or advisory role for Amgen; research funding from Pfizer, Merck, Amgen, Servier, Kite, and Vanda. JP: consultancy or advisory role for Kite, Novartis, and AstraZeneca; and research funding from Genentech, Amgen, and Juno. RH: honoraria from Bristol Myers Squibb, MSD, Gilead, Kite, Roche, Novartis, Jansser Celgene, and ADC therapeutics; consulting or advisory role for Kite, and Gilead. OOO: consultancy or advisory role for Kite Janssen, Pfizer, Novartis, and Curio Science; honoraria and research funding from Kite. ACL: consultancy or advisory role for Amgen, Pfizer, AbbVie, Bristol Myers Squibb; research funding from Amphivena, Astellas, Autolus, Jazz, Kadmon, Kite, and

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