

Bologna Palazzo Re Enzo 13-15 Febbraio 2025

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CAR-T NEI LINFOMI INDOLENTI

IRCSS – Azienda Ospedaliero Universitaria di Bologna

Bologna, 13-15 Febbraio 2025

Disclosures of Beatrice Casadei

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Kite-Gilead					х	х	
Novartis					х		
Celgene-BMS						x	
Abbvie					х	х	
Janssen					х	x	
Lilly					х		
Beigene						х	
Roche					х	x	
Incyte					х		
Takeda						x	

CAR T-cell Treatment and Indolent Lymphomas at ASH 2024

Follicular lymphoma

- 2 oral presentations: Neelapu S.S. et al, abs #864; Kersten M.J. et al, abs#93
- **7 poster presentations:** Nastoupil L. et al, abs #4387; Thieblemont C. et al, abs#3034; Poddar S. et al, abs #4368; Sharp J. et al, abs#2377; Kramer A.M. et al, abs #2064; Marchetti M. et al, abs #2269; Boardman A.P. et al, abs#3028

Marginal zone lymphoma

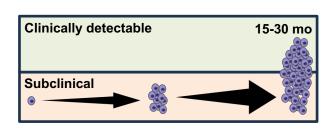
• 2 oral presentations: Neelapu S.S. et al, abs #864; Kersten M.J. et al, abs#93

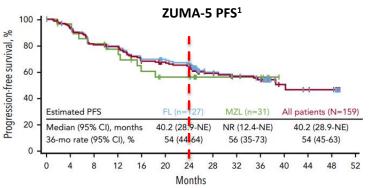
Chronic lymphocytic leukemia

• 1 poster presentation: Palma A.U. et al, abs #4607

864. 5-Year Follow-up Analysis from ZUMA-5: A Phase 2 Trial of Axicabtagene Ciloleucel (Axi-Cel) in Patients with Relapsed/Refractory Indolent Non-Hodgkin Lymphoma. *Neelapu S.S. et al.* Oral presentation.

 This 5-year analysis occurred after the median follow-up of all enrolled patients reached ≥60 months postinfusion (data cut-off: 31 march 2024)





• Lymphoma-specific assessment of survival may be necessary to determine curative potential in FL

1.Neelapu S, et al. Blood. 2024 Feb 8;143(6):496-506.

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ZUMA-5 _ Study Design

Patients not treated (n = 7)

- DLBCL via pretreatment biopsy (n = 1)
- Ineligible (n = 5)
- Death (n = 1)

Primary Endpoint

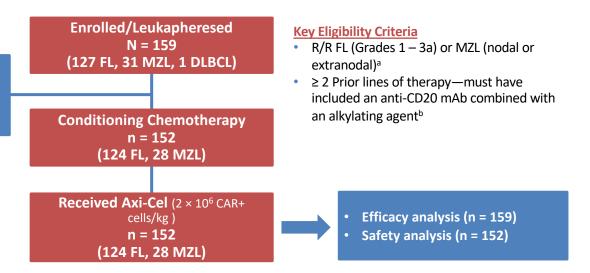
ORR (IRRC-assessed per Lugano 2014)

Key Secondary Endpoints

- CR rate (IRRC-assessed)
- DOR, PFS, OS
- AEs
- CAR T-cell and cytokine levels

Key Exploratory Efficacy Endpoints

- Lymphoma Specific Survival
- LSPFS

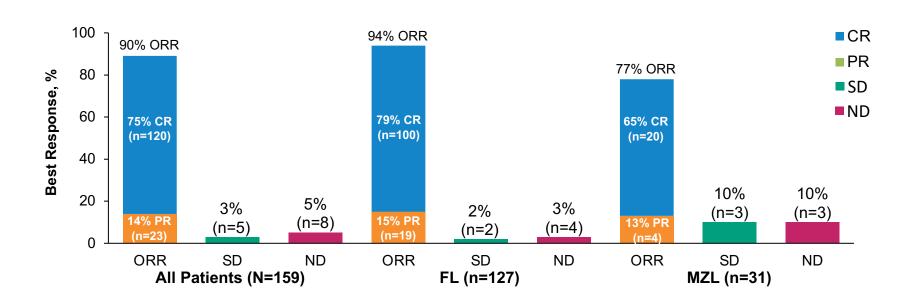


Neelapu SS, abs#864

^a Patients with stable disease (without relapse) >1 year from completion of last therapy were not eligible. ^b Single-agent anti-CD20 antibody did not count as line of therapy for eligibility. 1. Jacobson CA, et al. *Lancet Oncol.* 2022;23:91-103. 2. Cheson BD, et al. *J Clin Oncol.* 2014;32:3059-3068.



ZUMA-5 Overall and Complete Response Rate



MZL

(n=31)

NR (12.1-NE)

50.9 (31.5-67.5)

3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84

Months

All Patients

(N=159)

NR (38.6-NE)

Time to next treatment

ZUMA-5 _ Duration of Response and Time To Next Treatment

Fime to Next Treatment, %

80

60

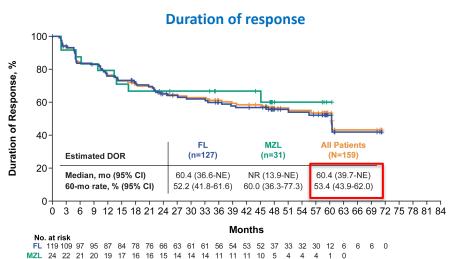
40-

20

Estimated TTNT

Median, mo (95% CI)

60-mo rate. % (95% CI)



All patients 143 131 118 115 106 101 94 92 81 77 75 75 67 65 64 62 42 37 36 34 13 6

No. at risk

FL 127 123 115 108 102 95 91 91 88 81 79 76 72 70 68 67 67 67 62 60 45 35 28 19 11 5 2 0

MZL 31 27 23 23 21 20 17 16 16 16 16 15 14 14 14 13 12 10 6 6 6 1 0

All patients 159 150 138 131 123 115 108 107 104 97 95 91 86 84 82 80 79 77 68 66 51 36 28 19 11 5 2 0

FL

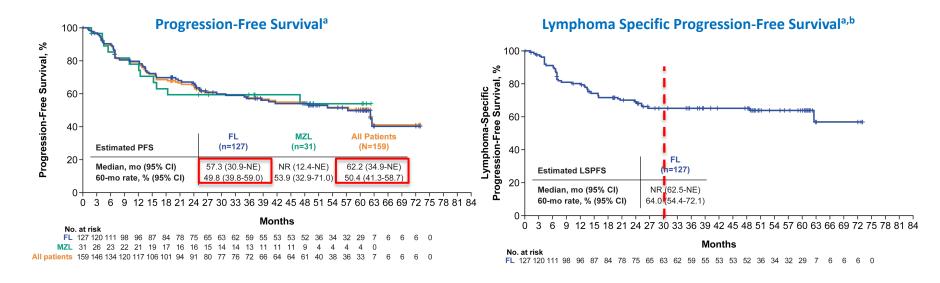
(n=127)

NR (37.8-NE)

54.0 (44.8-62.3)

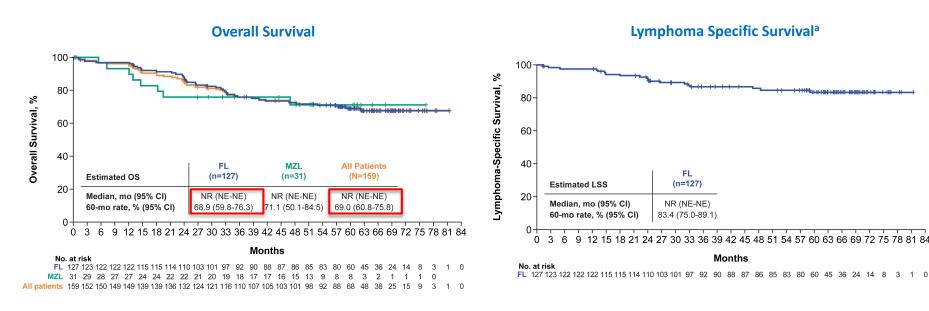


ZUMA-5 PFS and Lymphoma Specific PFS



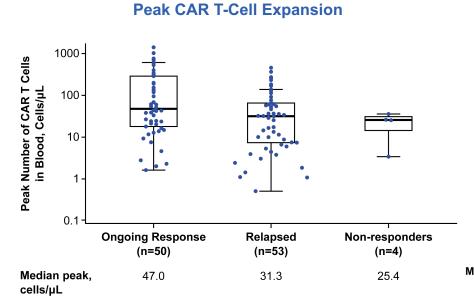
^a Progression events were determined by the investigator. ^b Death due to lymphoma included death due to disease progression or determined to be disease related. Death due to study treatment complications included death determined to be related to axi-cel or lymphodepleting chemotherapy. These were analyzed per investigator assessment. Deaths not related to lymphoma or study treatment were censored.

ZUMA-5 OS and Lymphoma Specific Survival

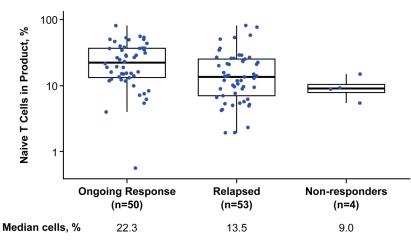


^a Death due to lymphoma included death due to disease progression or determined to be disease related. Death due to study treatment complications included death determined to be related to axi-cel or lymphodepleting chemotherapy. These were analyzed per investigator assessment. Deaths not related to lymphoma or study treatment were censored.

ZUMA-5 _ Correlative Analysis (FL)



Naive T Cells in Product

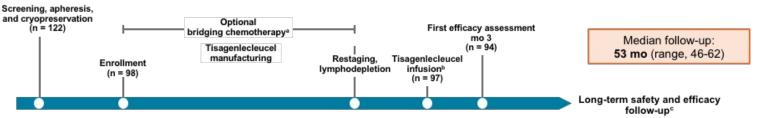


ZUMA-5 _ Conclusions

- After a median follow-up of >5 years, axi-cel continued to demonstrate durable responses and long-term survival in patients with R/R iNHL
 - Over half of patients were alive at data cutoff without the need for a subsequent therapy
 - The plateau in lymphoma-specific PFS, with only two progression events after month 30, indicates the curative potential of axi-cel in FL
- Safety outcomes with axi-cel remained consistent with previous analyses, and no new safety signals were observed
- Elevated early CAR T-cell expansion and a naive product phenotype continued to be associated with durable response
- Collectively, these long-term data support axi-cel as a highly effective therapeutic approach for patients with R/R iNHL, with a curative potential.



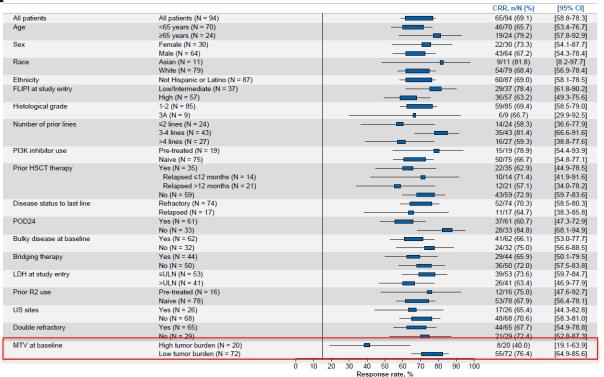
3034. Clinical Outcomes of Patients with High-risk Relapsed/Refractory Follicular Lymphoma Treated With Tisagenlecleucel: Phase 2 Elara 4-year Update. *Thieblemont C. et al.* Poster presentation.



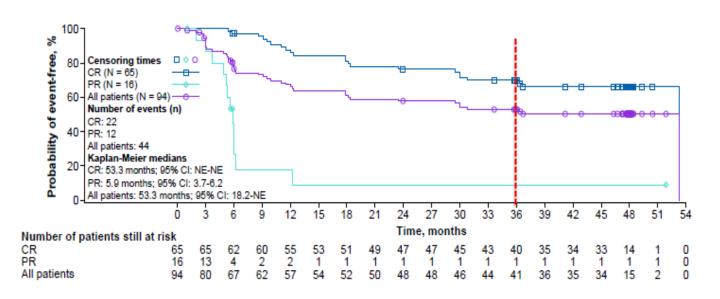
Key eligibility criteria	Study treatment	End points
≥18 years of ageFL grade 1, 2, or 3A	Tisagenlecleucel dose range (single IV infusion) was 0.6-6 × 108 CAR-positive viable T cells	Primary: CRR by IRC
 Relapsed/refractory disease^d No evidence of histological transformation/FL3B 		Secondary: ORR, DOR, PFS, OS, safety, cellular kinetics
No prior anti-CD19 therapy or allogeneic HSCT		

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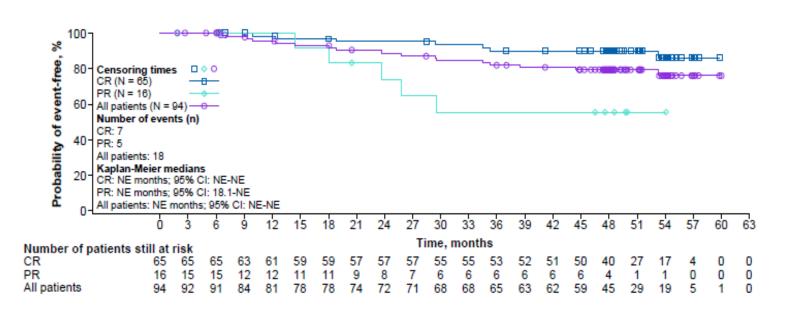
ELARA _ Response Rate



ELARA _ Progression Free Survival



ELARA _ Overall Survival



ELARA _ Conclusions

- Updated long-term follow-up from the ELARA trial continues to demonstrate robust durable responses >4 years post-infusion, alongside a favorable safety profile
- Subgroup analyses suggest that most baseline high-risk disease characteristics are not associated with inferior CRR, 48-mo PFS, or 48-mo OS
 - Although lower CRR, 48-mo PFS, and 48-mo OS rates were reported for patients with high tumor burden, it is important to remember that high-risk subgroup analyses were exploratory, and some subgroups (i.e. high tumor burden) had very limited patient numbers

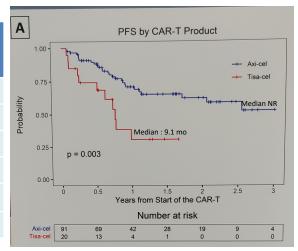
2377. Evaluation of Outcome and Toxicities of Commercial axi-cel and tisa-cel for Relapsed or Refractory Follicular Lymphoma: Real-World Evidence from 10 US Academic Center. *Sharp J. et al.* Poster presentation.

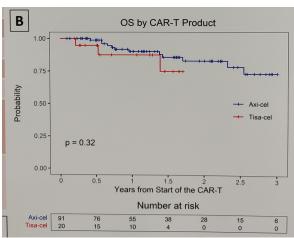
- 111 patients included:
 - 82% received axicel
 - 18% received tisacel
- Median follow-up 14.1 mo
- Tisa-cel group: older, higher proportion of female, more likely to receive benda LD, and receive CART outpatient

Parameter	Axi- cel	Tisa- cel	P value
Median age, years	60	74	<0.001
Female, %	23	60	0.003
LD Bendamustine, %	3	35	<0.001
Disease stage III/IV, %	29/52	25/63	0.82
Prior LoT, median	3	3	0.57
ECOG PS: 0-1 / ≥2 %	96/4	100/0	1.0
Bulky disease, %	44	53	0.71
Primary refractory, %	24	16	0.56
POD24, %	62	56	0.83
CR/PR prior to CAR-T, %	21	16	1.0

Real World Evidence - Results

	Axi-cel (n=91)	Tisa-cel (n=20)	P value
ORR, % (Day 90+)	89	83	0.43
CRR, % (Day 90+)	85	71	0.16
Median OS, mo	NR	NR	
1-year OS, %	90	87	0.32
Median PFS, mo	NR	9.1	0.003
1-year PFS, %	71%	31%	





Real World Evidence – Results and Conclusions

Toxicities – n (%)	Axi-cel (n=91, 82%)	Tisa-cel (n=20, 18%)	P- value
Cytokine release syndrome, any	71 (78%)	14 (70%)	0.44
CRS Grade 1-2	66 (73%)	13 (65%)	0.50
CRS Grade ≥3	5 (6%)	1 (5%)	1.0
ICANS Grade, any	39 (43%)	4 (20%)	0.03
ICANS Grade 1-2	21 (23%)	3 (15%)	0.55
ICANS Grade ≥3	18 (20%)	1 (5%)	0.19
Unexpected inpatient stay within 30 days of CAR-T*	6 (75%)	5 (63%)	1.0
Unexpected readmission within 30 days of CAR-T**	20 (24%)	1 (8%)	0.29

- First RWE analysing outcomes and toxicities of axicel and tisacel for RR FL
- Response rates were comparable in the two cohorts
- PFS inferior with tisa-cel but no OS difference
- Small number of tisa-cel patients is a limitation



SSD LINFOMI E SDR LINFOPROLIFERATIVE CRONICHE, UOC EMATOLOGIA

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