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Current Status of CAR-T Therapy in Hematology

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Professor of Medicine, Rutgers Robert Wood Johnson Medical School





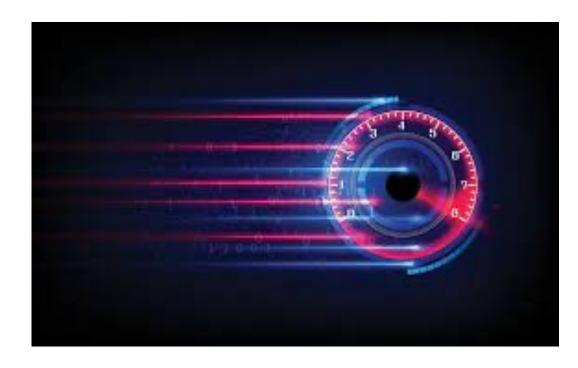


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Designated Comprehensiv Cancer Cente

CAR-T in 20 minutes

- Background on CAR-T
- Currently available CAR-T products & indications
- CAR-T toxicity overview



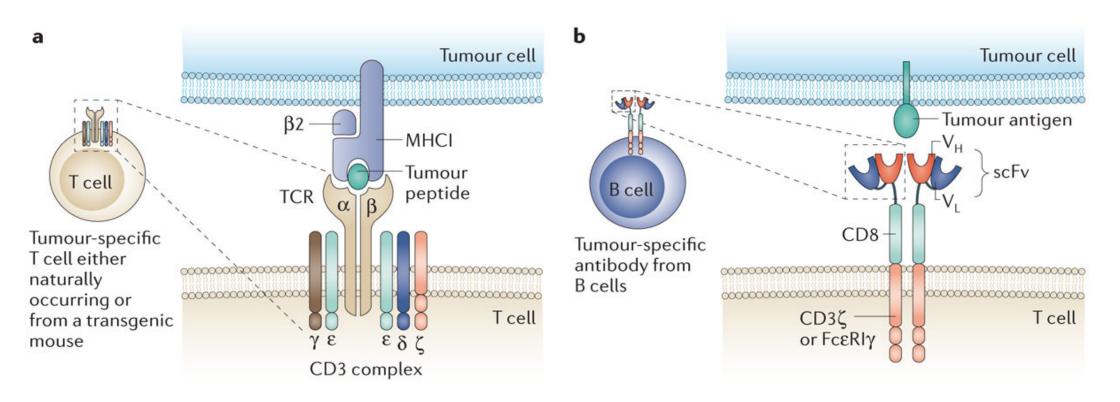




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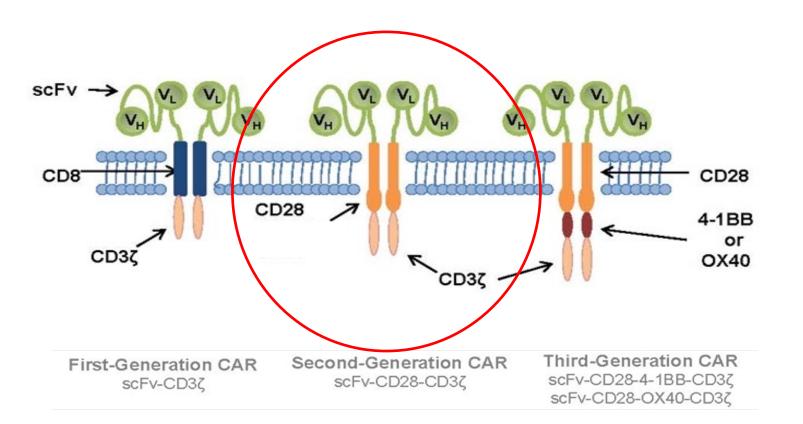
Cellular immunity as cancer therapy



Nature Reviews | Cancer



Evolution in CAR design



CAR Components

scFv single-chain variable fragment

 bypasses MHC antigen presentation, allowing direct activation of T cell by cancer cell antigens

Hinge region

• Essential for optimal antigen binding

Costimulatory domain: e.g., CD28 or 4-1BB

 Enhances proliferation, cytotoxicity, and persistence

Signaling Domain: CD3ζ chain

 Proliferation and activation, and CAR Tcell-mediated killing of tumor cells

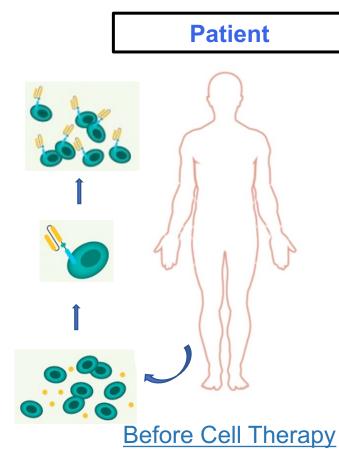


RWJBarnabas The Cell Therapy "Recipe"

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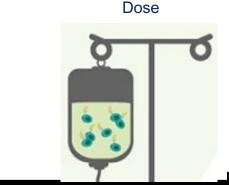
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Disease burden Cytokine profile Co-morbidities Age and geriatric vulnerability Conditioning Regimen

Lymphodepletion



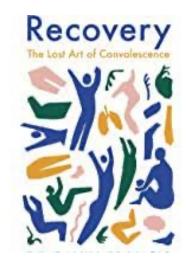
Immune effector cells

Product/Construct/Co-stim Target(s)

Therapy

Prophylaxis: Anti-seizure, antibiotics

Outcomes



After Cell Therapy

Effector cell expansion Effector cell persistence Biomarkers Cytokine release syndrome (CRS) Neurotoxicity (ICANS) Immune recovery Non-relapse mortality (NRM) Relapse/POD





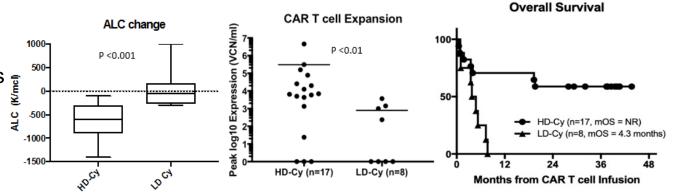
of New Jersey

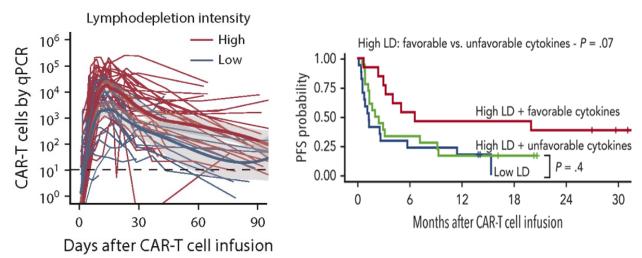
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Conditioning (lymphodepletion) matters for CAR-T success

- Lymphodepletion results in:
 - Tumor debulking & tumor microenvironment changes •
 - Reduces patient immunogenicity
 - Favorable changes in cytokine milieu
 - Ultimately allows for more effective T cell expansion and recovery
- Optimal lymphodepleting regimen is unknown.
 - Flu/Cy is most used. Bendamustine has been a standard during fludarabine shortage
- Intensity of lymphodepletion impacts outcomes.







What are advantages of autologous CAR-T cell therapy?

- HLA-independent: no need for donor / HLA matching
- They are target (antigen) specific
- Tend to exert their effects rapidly
- Minimal risk of graft-versus-host disease
- In some diseases (ALL, DLBCL), they offer curative potential









Currently approved CAR-T products

Product	Indication	Line of therapy
Axicabtagene ciloleucel (axi-cel)	DLBCL FL	2L (transplant eligible), 3L+ 3L+
Tisagenlecleucel (tisa-cel)	ALL DLBCL FL	Refratory or 3L+ 3L+ 3L+
Lisocabtagene maraleucel (liso-cel)	DLBCL	2L+ (regardless of transplant eligibility)
Brexucabtagene autoleucel (brexu-cel)	ALL MCL	2L+ 2L+
Idecabtagene vicleucel (ide-cel)	MM	5L+
Ciltacabtagene autoleucel (cilta-cel)	MM	5L+

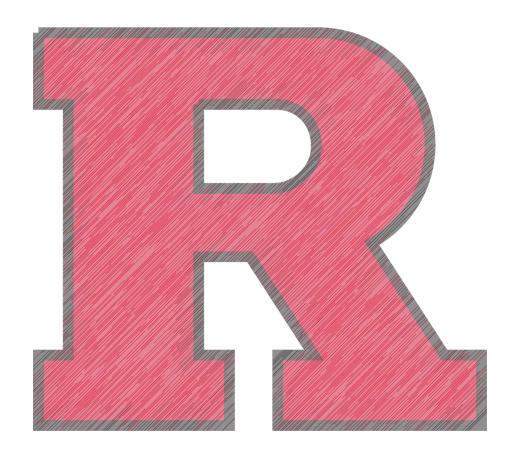




Approved CAR T products and their studies

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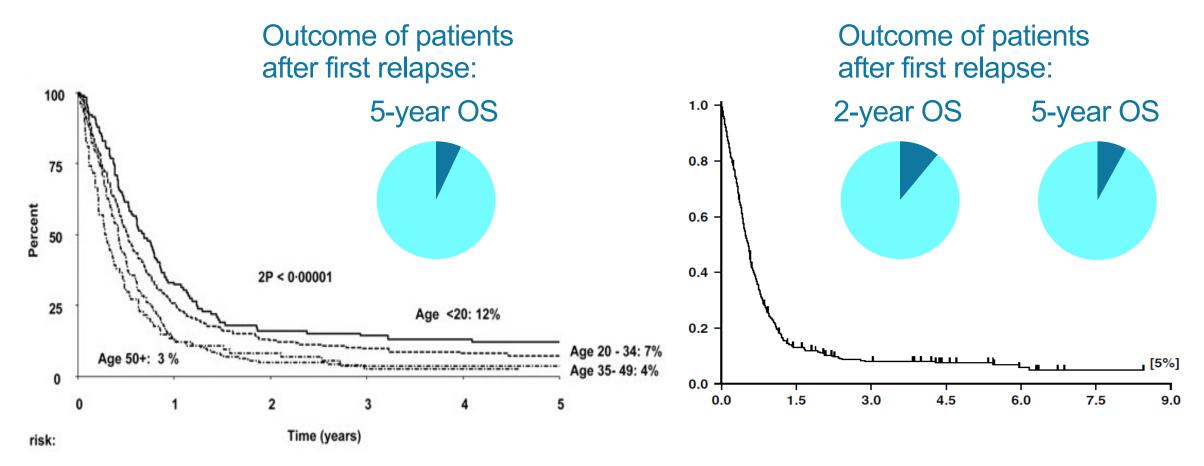




Historically poor prognosis for relapsed/refractory adult ALL

MRC UKALL2/ ECOG2993 Study (n=609)

LALA-94 Study (n=421)



Fielding A, et al. Blood 2007;109(3):944-950.

Tavernier E, et al. Leukemia 2007;21:1907-1914





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First ever CAR T approval: Tisagenlecleucel for ALL

Indication: CD19-directed autologous T cell for the treatment of patients ≤ 25 y/o with B-cell acute lymphoblastic leukemia (ALL) that is refractory or in second or later relapse.

The NEW ENGLAND JOURNAL of MEDICINE B Event-free and Overall Survival A Duration of Remission 1.0 0.9 **ORIGINAL ARTICLE** Probability of Continued Remission 0.8 Overall survival 0.7 0.7 Probability 0.6 Tisagenlecleucel in Children and Young 0.6 Event-free survi 0.5 Adults with B-Cell Lymphoblastic Leukemia 0.5 0.4 0.4 No. of No. of Median 0.3 S.L. Maude, T.W. Laetsch, J. Buechner, S. Rives, M. Boyer, H. Bittencourt, Patients Events Survival Rate at 6 Mo 0.3 0.2 P. Bader, M.R. Verneris, H.E. Stefanski, G.D. Myers, M. Qayed, B. De Moerloose, % (95% CI) mo 0.2 Overall Survival 75 19.1 90 (81-95) 19 H. Hiramatsu, K. Schlis, K.L. Davis, P.L. Martin, E.R. Nemecek, G.A. Yanik, No. of patients, 61 0.1 Event-free 27 not 73 (60-82) No. of events, 17 0.1 C. Peters, A. Baruchel, N. Boissel, F. Mechinaud, A. Balduzzi, J. Krueger, Survival reached Median duration of remission, not reached 0.0-12 14 16 C.H. June, B.L. Levine, P. Wood, T. Taran, M. Leung, K.T. Mueller, Y. Zhang, 10 18 20 22 0.0 10 12 14 18 20 22 K. Sen, D. Lebwohl, M.A. Pulsipher, and S.A. Grupp 16 Months since Tisagenlecleucel Infusion Months since Onset of Remission No. at Risk 75 72 Overall survival 64 58 55 40 30 20 No. at Risk 61 54 43 33 23 18 8 7 3 1 0 Event-free survival 75 64 51 37 33 19 13 8 3





Brexucabtagene for <u>adult</u> **ALL**

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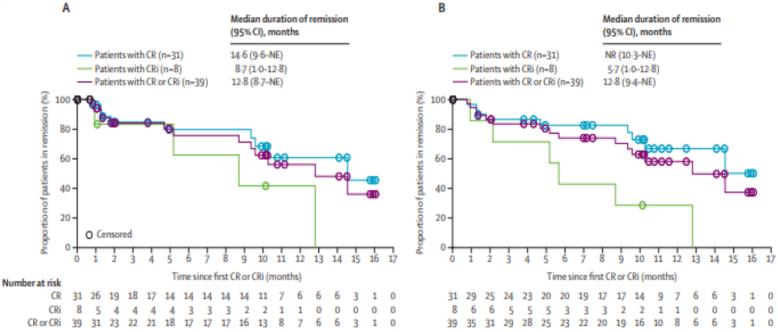
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KTE-X19 for relapsed or refractory adult B-cell acute lymphoblastic leukaemia: phase 2 results of the single-arm, open-label, multicentre ZUMA-3 study

Bijal D Shah, Armin Ghobadi, Olalekan O Oluwole, Aaron C Logan, Nicolas Boissel, Ryan D Cassaday, Thibaut Leguay, Michael R Bishop, Max S Topp, Dimitrios Tzachanis, Kristen M O'Dwyer, Martha L Arellano, Yi Lin, Maria R Baer, Gary J Schiller, Jae H Park, Marion Subklewe, Mehrdad Abedi, Monique C Minnema, William G Wierda, Daniel J DeAngelo, Patrick Stiff, Deepa Jeyakumar, Chaoling Feng, Jinghui Dong, Tong Shen, Francesca Milletti, John M Rossi, Pemus Vezan, Rehzad Kharabi Masouleb, Bach Hauat

Indication: CD19-directed autologous T cells for adult patients with relapsed or refractory B-cell precursor ALL



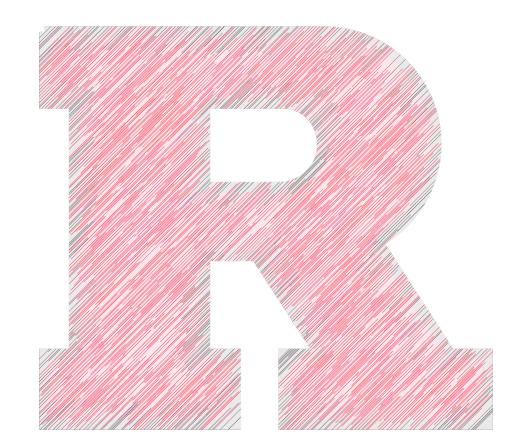








Diffuse large B-cell Lymphoma



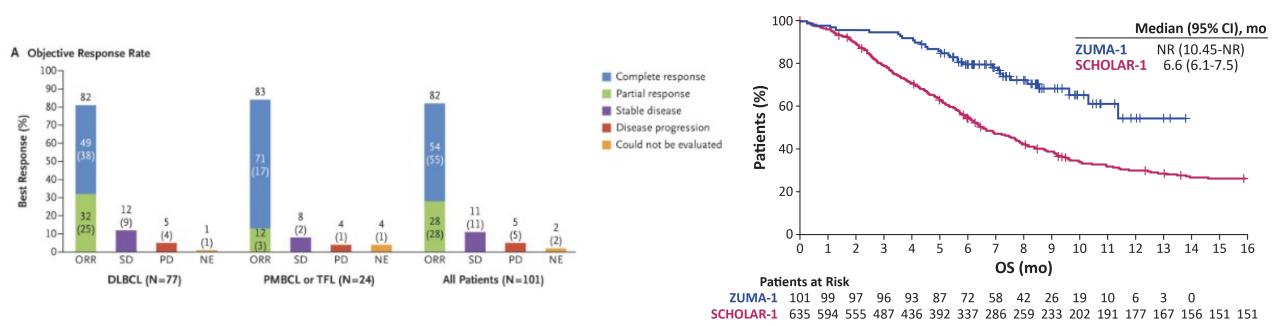








Axicabtagene ciloleucel: 1st FDA approval for DLBCL





High response rates in rel/ref DLBCL across products

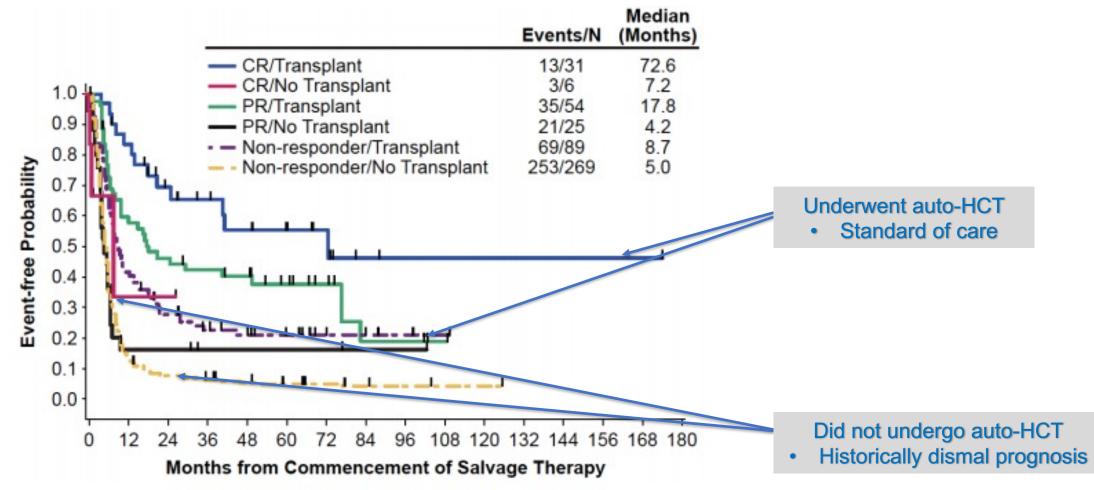
	KTE-C19	CTL019	JCAR017
Drug Name	Axicabtagene Ciloleucel	Tisagenlecleucel	Lisocabtagene maraleucel
Clinical Trial	ZUMA-1 NCT02348216	JULIET NCT02445248	TRANSCEND NHL 001 NCT02631044
Dose Level	2×10 ⁶ cells/kg	0.6-6.0×10 ⁸ cells	50-110×10 ⁶ cells
Conditioning Chemotherapy	Low dose Flu/Cy x 3 days	Variety; FDA label is Flu/Cy	Low dose Flu/Cy x 3 days
Eligible Patients	DLBCL, HGBL, tFL, PMBL ≥ 2 lines of therapy	DLBCL, HGBL, tFL ≥ 2 lines of therapy	DLBCL, HGBL, PMBL tFL, FL G3B \ge 2 lines of therapy
Response Rates	ORR = 82% CR = 54%	ORR = 52% CR = 40%	ORR = 73% CR = 54%



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What about 2L DLBCL? Autotransplant outcomes suboptimal











	ZUMA-7 ¹		BELIN	NDA ²	TRANSFORM ³	
	Axi-cel (n=180)	SOC (n=179)	Tisagenlecleucel (n=162)	SOC (n=160)	Liso-cel (n=92)	SOC (n=92)
Primary end point	EFS	EFS	EFS after wk 12	EFS after wk 12	EFS	
Median age (range), y	58 (21–80)	60 (26–81)	59.5 (19–79)	58 (19–77)	60 (53.5-67.5)	58.0 (42-65)
Eligibility	R/R at ≤12 mo, ASCT- eligible; no impending : organ compromise	R/R at ≤12 mo, ASCT-eligible; no impending organ compromise	R/R at ≤12 mo, ASCT- eligible	R/R at ≤12 mo, ASCT- eligible	Adults with aggr ≤12 mo, ASCT eli	-
Bridging therapy	Glucocorticoids only (36% received)	NA	Chemotherapy optional (83% received)	NA	Chemotherapy optional	NA
Disease status at study ent	ry, %					
Refractory to any therapy / relapsed / prior ASCT	74 / 26/ NA	73 / 27 / NA	66 / 34 / NA	67 / 33 / NA	73 / 27	7 / NA
Clinical outcomes						
Median follow-up, mo	25	25	10	10	6.2	6.2
Response, %	83	50	46	43	86	48
CR, %	65	32	28	28	66	39
EFS, HR (95% CI); P value	0.40 (0.31–0.5	51); P<0.001	1.07 (0.82-1	.40); P=0.61	0.349 (0.229-0.	530); P <.0001
PFS, %	24-mo, 46	24-mo, 27	NR	NR	12-mo, 52.3	12-mo, 33.9

1. Locke FL, et al. N Engl J Med. 11 DEC 2021. 2. Bishop MR, et al. N Engl J Med. 14 DEC 2021. 3. Kamdar. ASH 2021. Abstract 91.



Autotransplant vs. CAR T in DLBCL

- For some cases, CAR T cells may be better than SOC (auto-HCT)
 - You will start to see more patients getting CAR T cells as 2nd line tx
 - The number of auto-HCTs will likely continue to go down...
- The real world often does not mirror the clinical trials...
 - <u>Major</u> problem with access (insurance approval, delays, slot availability, financial toxicity)
 - Most patients need bridging therapy. What happens if they respond?
- If a patient gets CAR T cells in 2nd line...what happens if there is relapse?
 - Can/do you try for auto-HCT? (this is an open-ended question)
 - Regardless of results of the randomized studies, there is still a lot of work to do









Indolent B-cell Lymphomas





Brexucabtagene for mantle cell lymphoma

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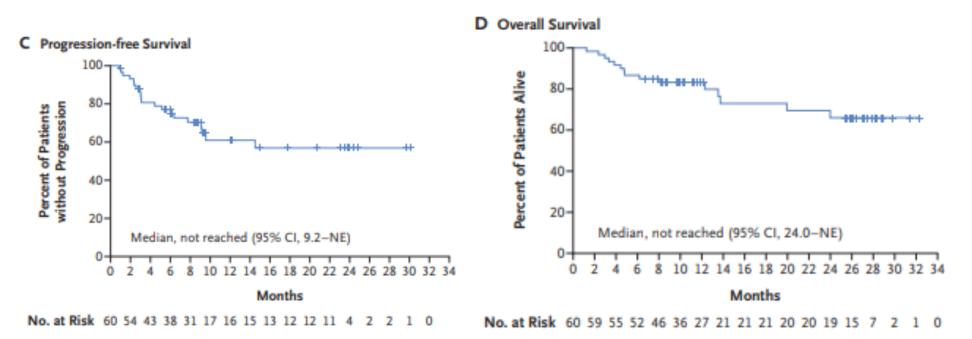


ORIGINAL ARTICLE

KTE-X19 CAR T-Cell Therapy in Relapsed or Refractory Mantle-Cell Lymphoma

M. Wang, J. Munoz, A. Goy, F.L. Locke, C.A. Jacobson, B.T. Hill, J.M. Timmerman, H. Holmes, S. Jaglowski, I.W. Flinn, P.A. McSweeney, D.B. Miklos, J.M. Pagel, M.-J. Kersten, N. Milpied, H. Fung, M.S. Topp, R. Houot, A. Beitinjaneh, W. Peng, L. Zheng, J.M. Rossi, R.K. Jain, A.V. Rao, and P.M. Reagan Indication: CD19-directed autologous T cell for adult patients with relapsed or refractory mantle cell lymphoma

> ORR: 87% CR: 62%





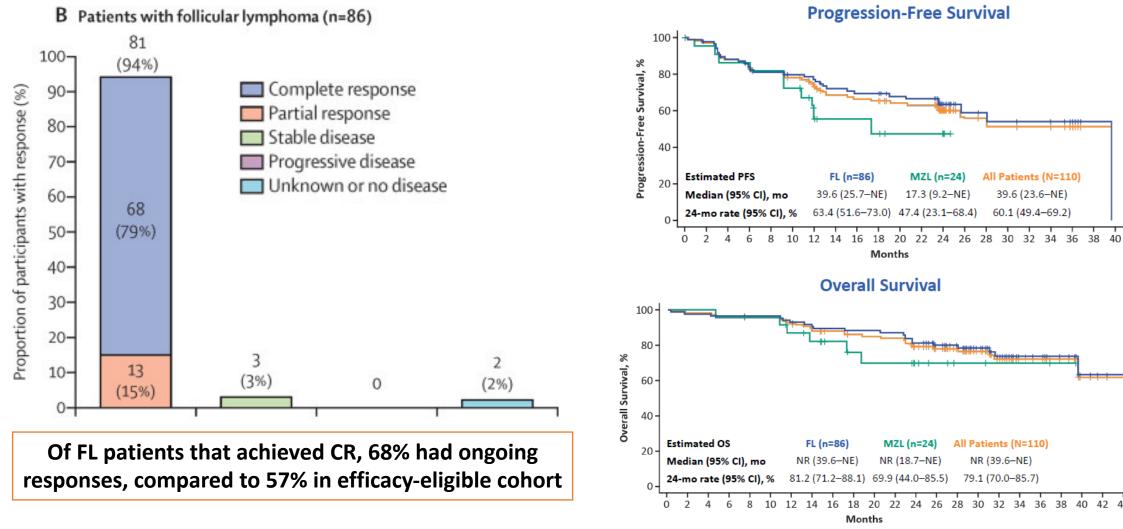


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Axicabtagene for multiply relapsed FL



Jacobson, Lancet Oncol 2022. Chavez, TCT, 2022. Neelapu, ASH 2021





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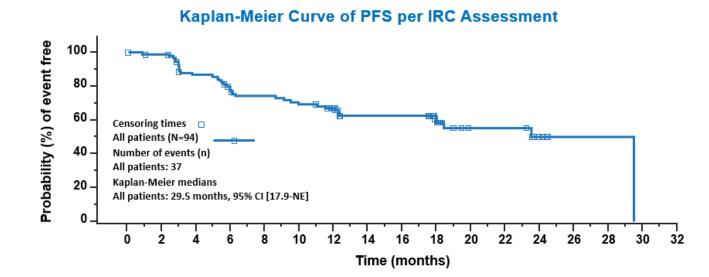


Tisagenlecleucel for multiply relapsed FL

Endpoint	% (95% CI)
Overall Response Rate	88.2 (77.5 – 92.4)
Complete Response Rate	69.1 (58.8 – 78.3)
12-mo progression-free survival	67.0 (56.0 – 75.8)

Among CR patients,

• 12mo PFS: 85.5% (95% Cl, 74-92)



With a longer median F/U of 21mo, Median PFS 29.5 mo (17.9 – NE)





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CAR-T in r/r follicular lymphoma

ZUMA-5 (Axi-cel)	N = 124	ELARA (Tisa-cel)	N = 97
Median age, year (IQR)	60 (53 – 67)	Median age, year (IQR)	57 (49 – 64)
ECOG PS 1, n (%)	46 (37%)	ECOG PS \geq 1 before infusion, n (%)	42 (43.3)
Bulky disease, n (%)	64 (52%)	Bulky disease, n (%)	62 (63.9)
Stage at study entry, III – IV, n (%)	106 (85%)	Stage at study entry, III – IV, n (%)	83 (85.6)
FLIPI high (≥ 3), n (%)	54 (44%)	FLIPI high (≥ 3) at study entry, n (%)	58 (59.8)
Median prior therapies, n (min, max) ≥ 3	3 (2-4) 78 (63%)	Median prior therapies, n (min, max) ≥ 5	4 (2 -13) 27 (27.8)
POD24, n(%)	68 (55%)	POD24, n(%)	61 (62.9)
Refractory to last line, n (%)	84 (68%)	Refractory to last line, n (%)	76 (78.4)
Prior autologous HSCT	30 (24%)	Prior autologous HSCT	35 (36.1)
 Prior therapy, n (%) Anti-CD20 mAB and alkylator PI3K inhibitor Lenalidomide 	123 (99%) 34 (27%) 38 (31%)	 Prior therapy Anti-CD20 mAB and alkylator PI3K inhibitor Lenalidomide 	97 (100) 20 (20.6) 16 (16.5)





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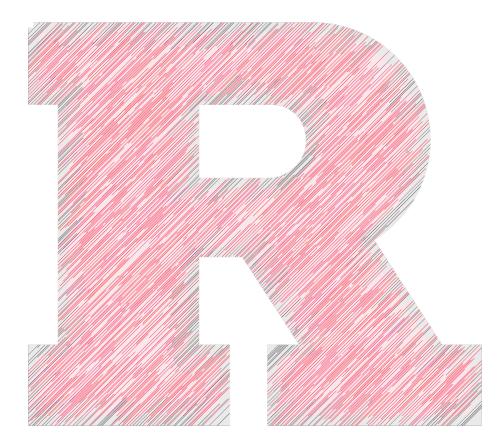
CAR-T in r/r follicular lymphoma: Tox

ZUMA-5 (Axi-cel)	N = 124	ELARA (Tisa-cel)	N = 97
Any adverse events	147 (99)	All adverse events	94 (96.9)
CRS	121 (82)	CRS	47 (48.5)
Neurological events	87 (59)	All nervous system disorders ICANS	36 (37.1) 4 (4.1)
Infections	79 (53)	Infections	18 (18.6)
Hypogammaglobulinemia	25 (17)	Hypogammaglobulinemia	9 (9.3)
Neutropenia	4 (3%)	Neutropenia	32 (33.0)
Anemia	56 (38)	Anemia	24 (24.7)
Thrombocytopenia	29 (20)	Thrombocytopenia	16 (16.5)







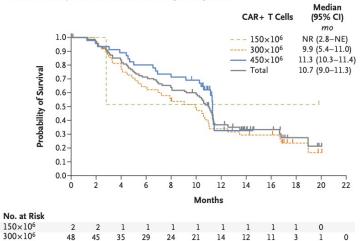


Multiple Myleoma



BCMA-directed CAR T cells for rel/ref multiple myeloma

A Duration of Response, Overall and According to Target Dose

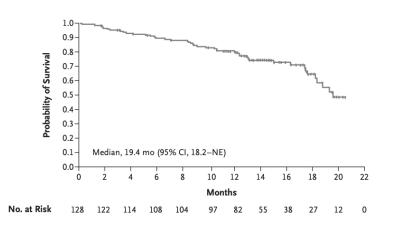


0 0

4

450×106 44 31 29 42 39 35 7 2 0 Total 94 65 56 51 22 12 89 75 15

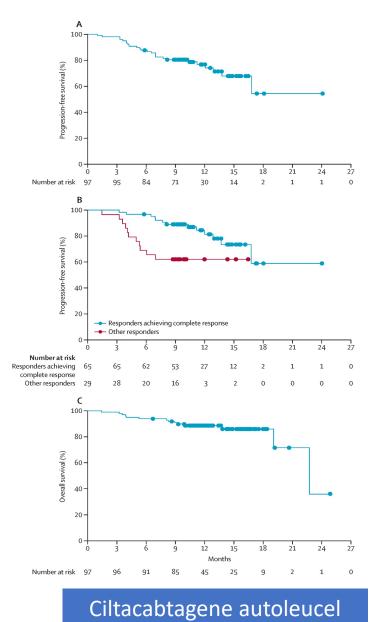




Idecabtagene vicleucel

 Adults with MM refractory to at least 4 lines of therapy

 Prior therapy must have included: PI, IMiD, & anti-CD38

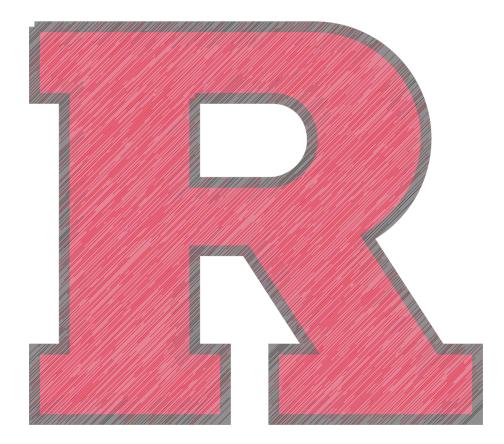












CAR T Toxicity



Adverse events associated with CAR T cells can affect any organ system

Neurologic

- > Headaches > Tremor
- > Delirium
- > Aphasia
- > Myoclonus

> Dysmetria

- > Apraxia> Ataxia
- a > Facial Nerve palsy
 - > Seizures
- > Hallucinations

Hepatic

> Transaminitis > Hyperbilirubinemia

Hematologic

- Anemia
 Thrombocytopenia
 Reutropenia
 Febrile Neutropenia
 Lymphooenia
 B-Cell Aplasia
 Prolonged Prothrombin time
- > Prolonged Activated Partial Thromboplastic time

Cardiovascular

- > Tachycardia
- > Widened pulse pressure
- > Hypotension
- > Arrhythmias
- Decreased left ventricular ejection fracture
- > Elevated Troponins
- > QT prolongation
- Pulmonary
- > Tachypnea > Hypoxia
- Gastrointestinal
- > Nausea > Diarrhea> Emesis
- Musculoskeletal
- Myalgias > Weakness
 Elevated creatine kinase

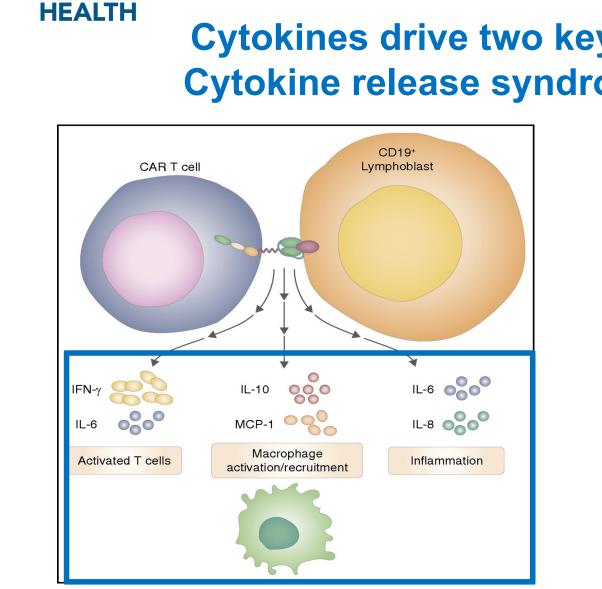
Constitutional

- > Fevers
- > Rigors
- Malaise
- Fatigue
- > Anorexia
- > Aethralgais

Renal

- > Acute kidney injury
- > Hyponatremia
- > Hypokalemia
- > Hypophosphatemia
- > Tumor lysis syndrome

DrMatasar



Maude et al., Blood 2017 Santomasso et al., JCO 2019

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CAR T cell infusion **CAR T cell expansion** 7 14 28 CRS **ICANS**

Main treatments for CRS and/or ICANS

CRS \rightarrow IL-6 blockade (tocilizumab - approved)

Others: siltuximab, steroids, etc.

ICANS \rightarrow steroids (dexamethasone)

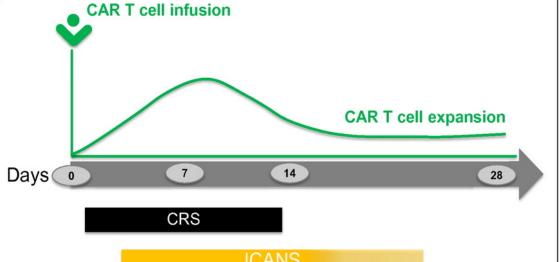
Others: anakinra, JAK inhibition, etc. •







NCI



We utilize CRS grading to guide treatment decisions

CRS Parameter	Grade 1	Grade 2	Grade 3	Grade 4
Fever	Temperature ≥ 38°C	Temperature ≥ 38°C	Temperature ≥ 38°C	Temperature ≥ 38°C
With				
Hypotension	None	Not requiring vasopressors	Requiring one vasopressor with or without vasopressin	Requiring multiple vasopressors (excluding vasopressin)
And/or*				
Hypoxia	None	Requiring low-flow nasal cannula or blow-by	Requiring high-flow nasal cannula, facemask, nonrebreather mask, or Venturi mask	Requiring positive pressure (e.g., CPAP, BiPAP, intubation and mechanical ventilation)

Abbreviations: ASBMT, American Society of Blood and Marrow Transplantation; BiPAP, bilevel positive airway pressure; CPAP, continuous positive airway pressure; CRS, cytokine release syndrome.

*CRS grade is determined by the more severe event: hypotension or hypoxia not attributable to any other cause.



CRS management (NCCN Guidelines 2022)

CRS Grade	Anti-IL-6 Therapy	Corticosteroids ^{j,k,l}	Additional Supportive Care
Grade 1 Fever (≥38°C)	For prolonged CRS (>3 days) ^h in $\begin{array}{c} p\\ s\\ s\\ t\\ t\\$		y CRS or persistent G1 CRS F)
Grade 2 Fever with hypotension not requiring vasopressors and/or hypoxia ^t requiring low-flow nasal	Grade 2 → tocilizu Grade 2 → tocilizu	•	 IV fluid bolus as needed For persistent refractory hypotension after two fluid sors, ogram, nonitoring. ent
cannula ^g or blow-by	doses total [†]	product ^{m,n}	 Manage per Grade 3 if no improvement within 24 hours after starting anti-IL-6 therapy Symptomatic management of organ toxicities
Grade 3 Fever with hypotension requiring a vasopressor with or without vasopressin and/or hypoxia requiring high-flow cannula, ^g face mask, nonrebreather mask, or Venturi mask.	A Grade 3 → tocilizu ^{if} 2 • Supportive care	umab + steroids e, ICU managemer	J, obtain echocardiogram, and perform monitoring oxygen ind vasopressors as needed oymptomatic management of organ toxicities
Grade 4 Fever with hypotension requiring multiple vasopressors (excluding vasopressin) and/or hypoxia requiring positive pressure (eg, CPAP, BiPAP, intubation, mechanical ventilation).		umab + high-dose e, ICU managemer management	nouyhanne merntering



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We also utilize IEC-Associated Neurotoxicity Syndrome (ICANS) scoring to guide treatment decisions

	Neurotoxicity Domain	Grade 1	Grade 2	Grade 3	Grade 4
	ICE score	7–9	3–6	0–2	O (patient is unarousable and unable to perform ICE)
	Depressed level of consciousness	Awakens spontaneously	Awakens to voice	Awakens only to tactile stimulus	Patient is unarousable or requires vigorous or repetitive tactile stimuli to arouse; stupor or coma
ICE Orientation: orientation to year, month, city, hospital: 4 points Naming: ability to name 3 objects (eg, point to clock, pen, button): 3 points Following commands: ability to follow simple commands (eg, "Show me 2 fingers" or "Close your eyes and stick out your tongue"): 1 point Writing: ability to write a standard sentence (eg, "Our national bird is	Seizure	NA	NA	Any clinical seizure focal or generalized that resolves rapidly; or nonconvulsive seizures on EEG that resolve with intervention	Life-threatening prolonged seizure (> 5 min); or repetitive clinical or electrical seizures without return to baseline in between
	Motor findings	NA	NA	NA	Deep focal motor weakness such as hemiparesis or paraparesis
the bald eagle"): 1 point Attention: ability to count backwards from 100 by 10: 1 point	Raised ICP/cerebral edema	NA	NA	Focal/local edema with or without hemorrhage on neuroimaging	Diffuse cerebral edema on neuroimaging; decerebrate or decorticate posturing; or cranial nerve VI palsy; or papilledema; or Cushing triad

Abbreviations: ASBMT, American Society of Blood and Marrow Transplantation; EEG, electroencephalogram; ICANS, immune effector cell–associated neurologic syndrome; ICE, Immune Effector Cell Encephalopathy screening tool; ICP, intracranial pressure; NA, not applicable.



RWJBartales management (NCCN Guidelines 2022) nstitute of New Jersey RUTGERS HEALTH

Treatment by Grade	No Cond	current CRS ^x	Additiona	I Therapy if Concurrent CRS
Grade 1 ^v	Suppor	Grade 1 \rightarrow Supportive care (?consider steroid	s?)	b 8 mg/kg IV over 1 hour (not to 0 mg/dose) ^{aa, †}

Grade 2	 Supportive care 1 dose Grade 2 → Steroids, supportive care hours, monoprovement. 	Anti-IL-6 therapy as per Grade 1 ^{aa} Consider transferring patient to ICU if neurotoxicity associated with grade ≥2 CRS

	ICU care is recommended
Grade 3 ^w	 Dexamery every Grade 3 → Higher dose steroids Consid ICU level care, CNS imaging, assess for seizures

Grade 4 ^w	 ICU care_consider mechanical ventilation for airway protection High-c Grade 4 → Very high-dose steroids Consignersis ICU level care, CNS imaging, assess for seizures
	Treat convulsive status epilepticus per institutional guidelines.



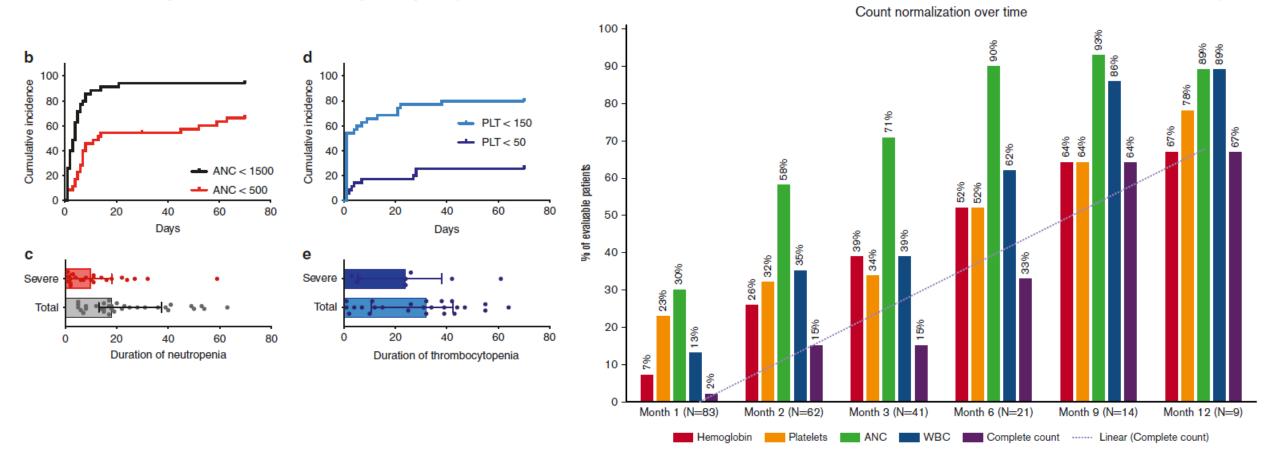




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Severe (and prolonged) cytopenias are common after CAR T cell therapy





How do we choose between CAR T products in specific diseases?

- Availability and access (unfortunately)
 - Collection slots
 - Insurance approvals
 - Overall access to care [we <u>need</u> better access]
- Patient factors (co-morbidities, age, etc.)
- Clinical trial availability



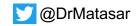


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Bottom Line: Whom to refer, and when

- ALL
 - First relapse unless very unfit
- DLBCL
 - First relapse if primary refractory/early relapse
 - Otherwise second relapse
- MCL
 - Second relapse, fit
- FL
 - Second relapse and now, perhaps post-bispecific?
- MM
 - Fourth relapse after SOC exhausted again, perhapse post-bispecific?





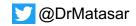
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Bottom Line: Whom to refer, and when

- ALL
 - First relapse unless very unfit
- DLBCL
 - First relaps
 - Otherwise
- MCL
 - Second rel
- FL

- Partner with your local CAR-T providers -We'd rather get involved too early than too late!
- Second relapse and now, perhaps post-bispecific?
- MM
 - Fourth relapse after SOC exhausted again, perhapse post-bispecific?





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- Ira Braunschweig, MD
- Anuparma Doraiswamy, MD
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- Andy Evens, DO
- Neil Palmisiano, MD
- Vimal Patel, MD
- Joanna Rhodes, MD
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Current Status of CAR-T Therapy in Hematology

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