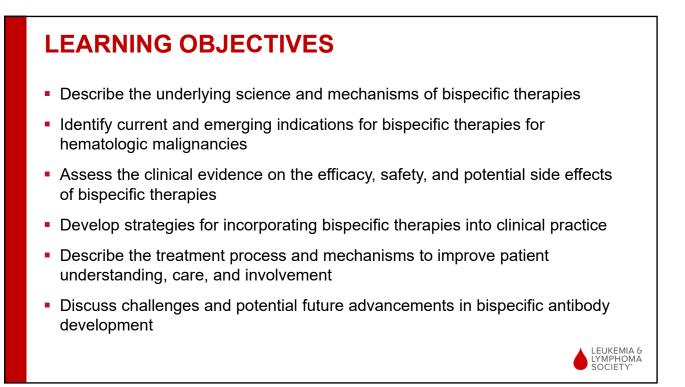




Elise Curry, BA, BSN, RN, OCN

Clinical Trial Nurse Navigator, Clinical Trial Support Center The Leukemia & Lymphoma Society





CE DESIGNATION



Joint Accreditation Statement

In support of improving patient care, this activity has been planned and implemented by the Postgraduate Institute for Medicine and The Leukemia & Lymphoma Society. Postgraduate Institute for Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physician Continuing Medical Education

The Postgraduate Institute for Medicine designates this CME activity for a maximum of 1 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Registered Nursing Credit Designation

Approval for nurses has been obtained by the National Office of The Leukemia & Lymphoma Society under Provider Number CEP 5832 to award 1.0 continuing education contact hour through the California Board of Registered Nursing.



Continuing Physician Assistant Education

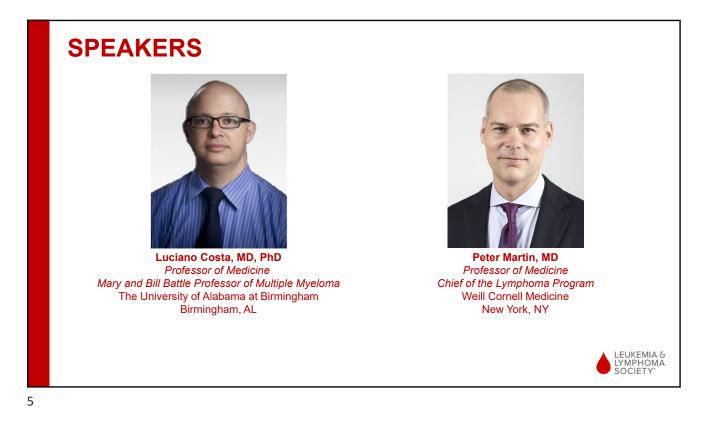
Postgraduate Institute for Medicine has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 1 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.



Interprofessional Continuing Education

This activity was planned by and for the healthcare team, and learners will receive 1 Interprofessional Continuing Education (IPCE) credit





DISCLOSURE INFORMATION

- Luciano Costa reports Grant/Research Support from BMS, Johnson & Johnson, Pfizer, AbbVie, Caribou, Genentech, and Gracel, and Consultant/Advisory Board for BMS, Johnson & Johnson, Pfizer, AbbVie, Caribou, Genentech, Regeneron, Adaptive Biotechnologies, and AstraZeneca.
- **Peter Martin** reports Consultant/Advisory Board for Abbvie, AstraZeneca, Beigene, BMS, Genentech, Janssen, Pepromene, and Merck
- Elise Curry reports Patient advisory board member for Viracta Pharmaceuticals with compensation provided to LLS.



METHOD OF PARTICIPATION

Learners must participate in the entire activity and complete and submit the evaluation form to earn credit. Once completed, the certificate will be generated. If you have questions regarding the receipt of your certificate, please contact us via email at <u>ProfEducation@LLS.org</u>.

There are no fees for participating in or receiving credits for this activity.



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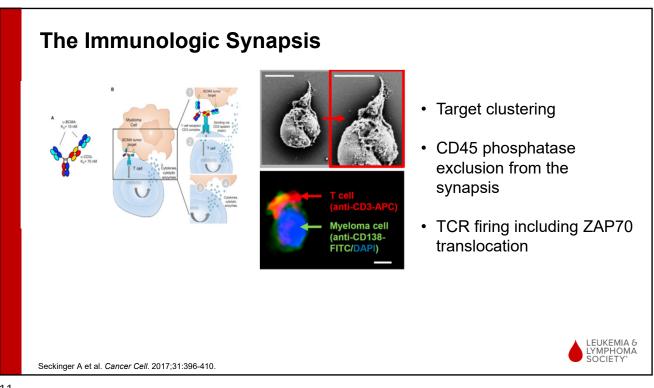
Therapeutic bispecific T-cell engagers in use in myeloma share the following characteristic:

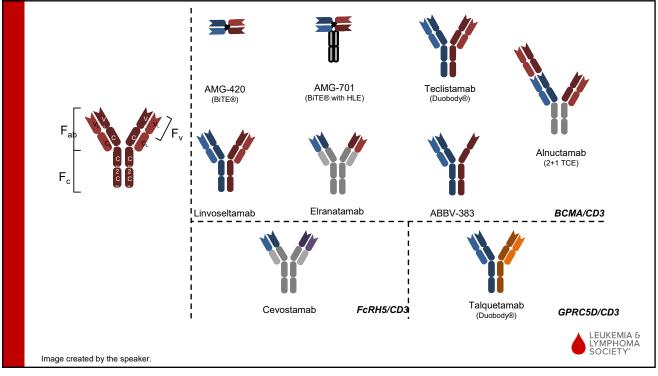
- a) They all bind to BCMA in the malignant plasma cell.
- b) They all have weight-based dosing.
- c) They are all administered subcutaneously.
- d) They do not require step-up dosing.
- e) They can only be administered inpatient.

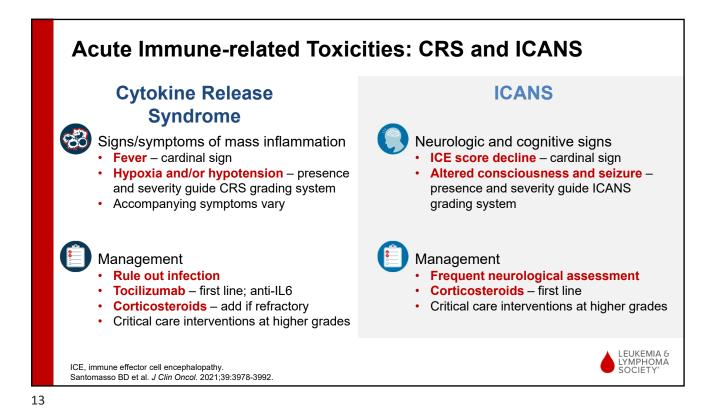
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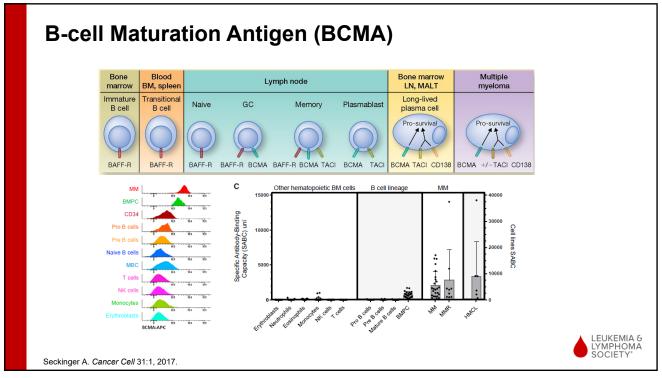
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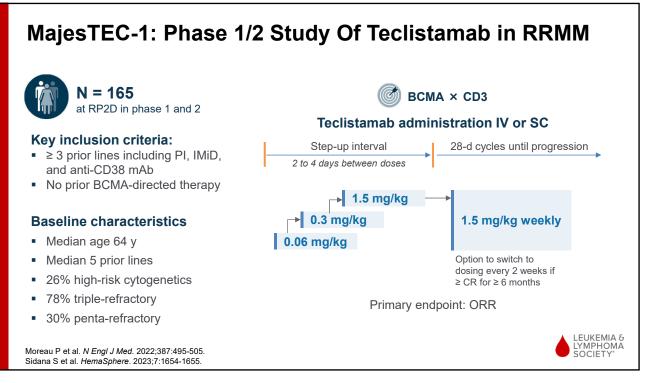
LEUKEMIA & LYMPHOMA SOCIETY



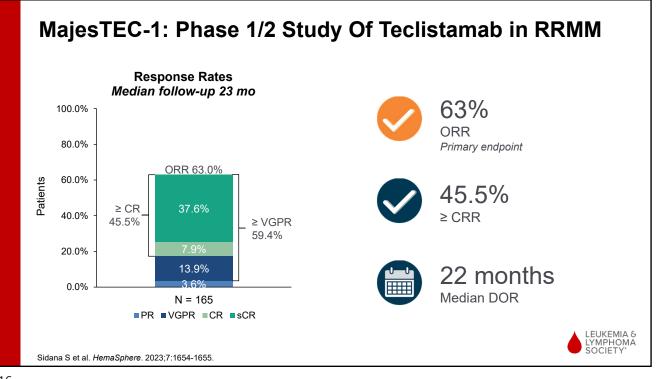


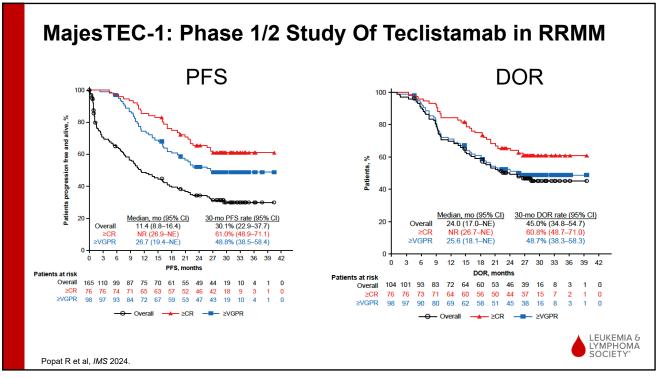












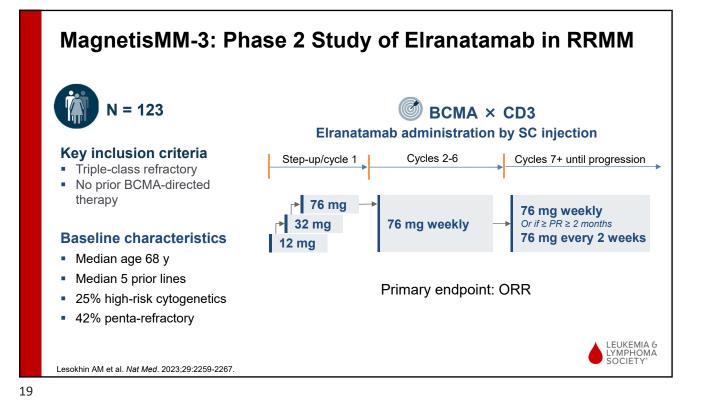
MajesTEC-1: Phase 1/2 Study Of Teclistamab in RRMM

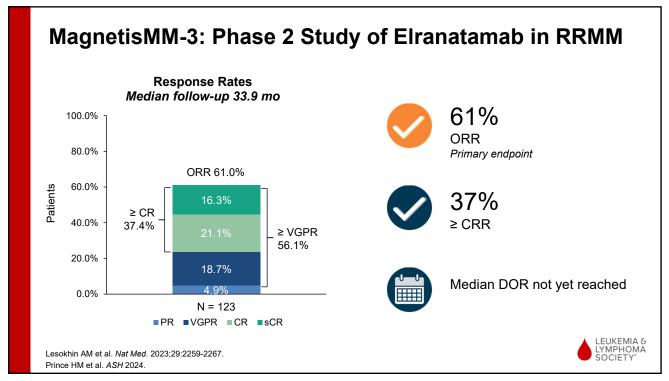
- Most common AEs included cytopenias, infections, and CRS^[1]
- CRS median onset 2 days; median duration 2 days
- 9 ICANS events in 5 patients, all grade 1/2 and resolved without dose reduction or discontinuation

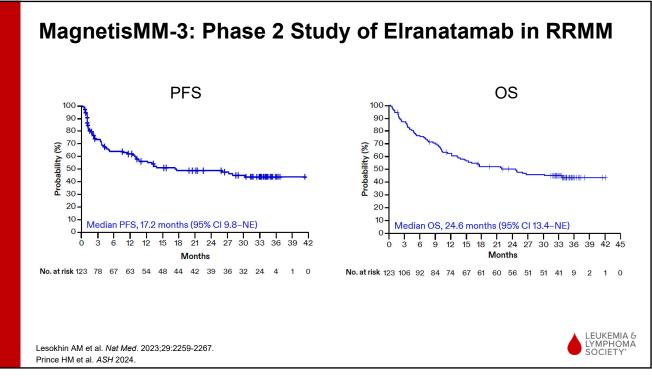
Hematologic AEs, ^[2] N (%)	Any Grade	Grade ≥ 3
Neutropenia	118 (71.5)	108 (65.5)
Anemia	90 (54.5)	62 (37.6)
Thrombocytopenia	70 (42.4)	37 (22.4)
Lymphopenia	60 (36.4)	57 (34.5)
Leukopenia	33 (20.0)	15 (9.1)

Nonhematologic AEs, ^[2] N (%)	Any Grade	Grade ≥ 3
Infection	132 (80.0)	91 (55.2)
COVID-19	48 (29.1)	35 (21.2)
CRS	119 (72.1)	1 (0.6)
Diarrhea	56 (33.9)	6 (3.9)
Pyrexia	52 (31.5)	1 (0.6)
Fatigue	48 (21.9)	4 (2.4)
Nausea	45 (27.3)	1 (0.6)
Cough	44 (26.7)	0
Injection site erythema	43 (26.1)	0
Arthralgia	42 (25.5)	1 (0.6)
Headache	40 (24.2)	1 (0.6)
Constipation	36 (21.8)	0
Hypogammaglobulinemia	34 (20.6)	3 (1.8)
		LEUKEMIA & LYMPHOMA SOCIETY*

Moreau P et al. *N Engl J Med*. 2022;387:495-505. Sidana S et al. *HemaSphere*. 2023;7:1654-1655.







MagnetisMM-3: Phase 2 Study of Elranatamab in RRMM

- Most common AEs included infections, CRS, and cytopenias
- CRS median onset 2 days, median duration 2 days
- ICANS occurred in 3.4% of patients, all grade 1/2

	N = 123		
Hematologic AEs, N (%)	Any Grade	Grade ≥ 3	
Anemia	60 (48.8)	46 (37.4)	
Neutropenia	60 (48.8)	60 (48.8)	
Thrombocytopenia	38 (30.9)	29 (23.6)	
Lymphopenia	33 (26.8)	31 (25.2)	

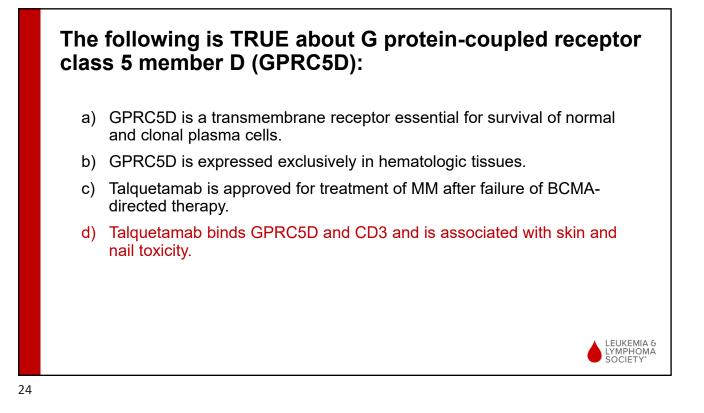
	N = 123	
Nonhematologic AEs, N (%)	Any Grade	Grade ≥ 3
Infection	82 (66.9)	49 (39.8)
COVID-19	36 (29.3)	19 (15.4)
CRS	71 (57.7)	0
Diarrhea	52 (42.3)	2 (1.6)
Fatigue	45 (36.6)	4 (3.3)
Decreased appetite	41 (33.3)	1 (0.8)
Pyrexia	37 (30.1)	5 (4.1)
Injection site reaction	33 (26.8)	0
Nausea	33 (26.8)	0
Hypokalemia	32 (26.0)	13 (10.6)
Cough	31 (25.2)	0
Headache	29 (23.6)	0
		LEUKEMIA LYMPHOM SOCIETY*

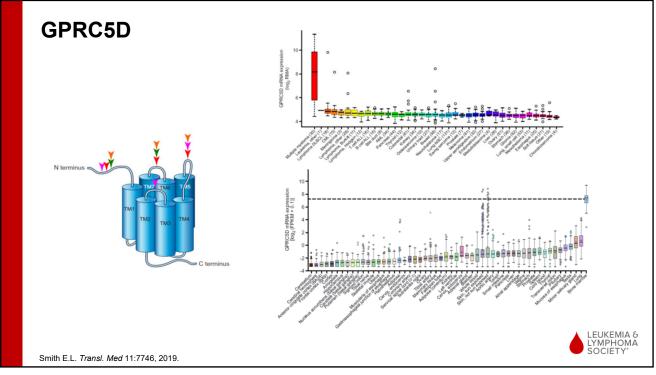
Lesokhin AM et al. Nat Med. 2023;29:2259-2267.

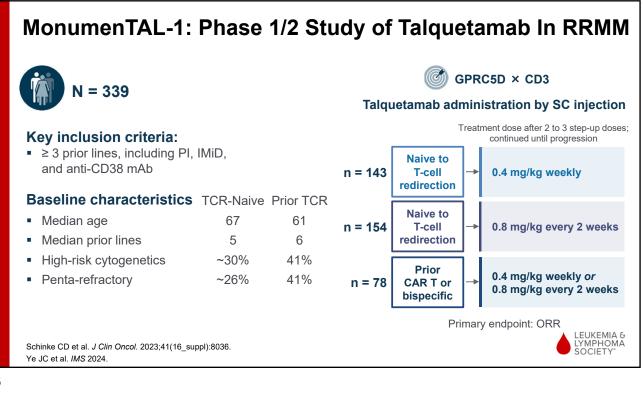
The following is TRUE about G protein-coupled receptor class 5 member D (GPRC5D):

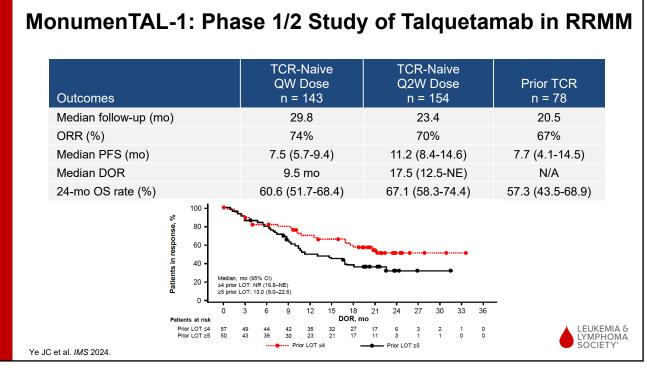
- a) GPRC5D is a transmembrane receptor essential for survival of normal and clonal plasma cells.
- b) GPRC5D is expressed exclusively in hematologic tissues.
- c) Talquetamab is approved for treatment of MM after failure of BCMAdirected therapy.
- d) Talquetamab binds GPRC5D and CD3 and is associated with skin and nail toxicity.









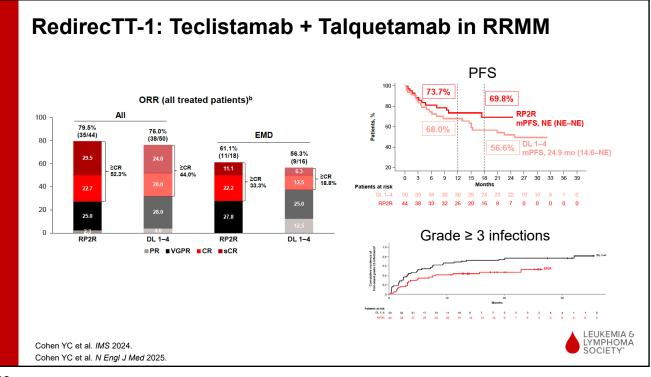


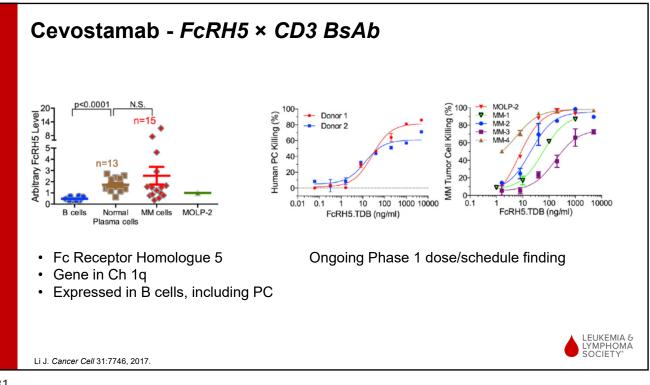
MonumenTAL-1: Phase 1/2 Study of Talquetamab in RRMM

 Most common AEs included CBS 	Most Common AEs,	TCR-Naive, QW Dose n = 143		TCR-Naive, Q2W Dose n = 145		Prior TCR n = 51	
included CRS,	N (%)	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3	Any Grade	Grade ≥ 3
infection, dysgeusia, and skin/nail toxicity	Hematologic						
· · · · · · · · · · · · · · · · · · ·	Anemia	66 (44.8)	45 (31.5)	66 (45.5)	40 (27.6)	25 (49.0)	14 (27.5)
 5 patients discontinued due to skin-related AEs 	Neutropenia	50 (53.0)	44 (30.8)	41 (28.3)	32 (22.1)	28 (54.9)	27 (52.9)
	Thrombocytopenia	39 (27.3)	29 (20.3)	43 (29.7)	27 (18.6)	19 (37.3)	15 (29.4)
and dysgeusia	Nonhematologic						
	CRS	113 (79.0)	3 (2.1)	108 (74.5)	1 (0.7)	39 (76.5)	1 (2.0)
	Infection	84 (58.7)	28 (19.6)	96 (66.2)	21 (14.5)	37 (72.5)	14 (27.5)
	Dysgeusia	103 (72.0)	-	103 (71.0)	-	39 (76.5)	-
On-target, off-tumor — effects	Skin related	80 (55.9)	0	106 (73.1)	1 (0.7)	35 (68.6)	0
	Nail related	78 (54.5)	0	78 (53.8)	0	32 (62.7)	0
Chebia	Rash related	57 (39.9)	2 (1.4)	43 (29.7)	8 (5.5)	18 (35.3)	2 (3.9)
·	Weight decrease	59 (41.3)	3 (2.1)	60 (41.4)	8 (5.5)	15 (29.4)	0
Schinke CD et al. J Clin Oncol. 2023	;41(16_suppl):8036.					۵	LEUKEMIA 8 LYMPHOMA SOCIETY°

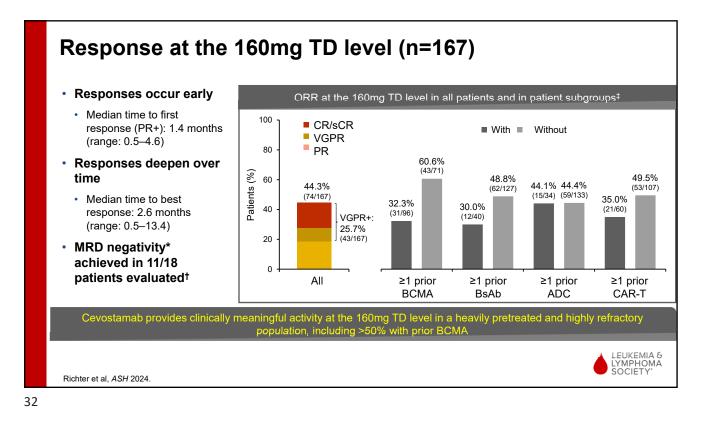
RedirecTT-1: Teclistamab + Talquetamab in RRMM

Characteristic	RP2R (n=44)	All doses (N=94)	Characteristic	RP2R (n=44)	All doses (N=94)
Median age, years (range)	63.0 (41-80)	64.5 (39–81)	Median prior LOT, n (range)	4.0 (2–10)	4.0 (1–11)
Male, n (%)	23 (52.3)	49 (52.1)	Exposure status, n (%)		
Race, n (%) White Black/African American Asian	32 (72.7) 0 (0) 12 (27.3)	75 (79.8) 1 (1.1) 17 (18.1)	Belantamab mafodotin CAR-T therapy ^d Bispecific antibody ^e Any BCMA-directed therapy	5 (11.4) 2 (4.5) 2 (4.5) 9 (20.5)	18 (19.1) 4 (4.3) 7 (7.4) 27 (28.7)
Unknown	0 (0)	1 (1.1)	Triple-class Penta-drug	44 (100.0) 28 (63.6)	94 (100.0) 61 (64.9)
Extramedullary plasmacytomas ≥1,ª n (%) High-risk cytogenetics, ^b n (%)	18 (40.9) 8 (42.1)	34 (36.2) 21 (41.2)	Refractory status, n (%)		
ISS stage, ^c n (%) I II	14 (34.1)	38 (44.7) 26 (30.6) 21 (24.7) 6.1 (0.3–14.6)	Proteasome inhibitor Immunomodulatory drug Anti-CD38 Triple-class	41 (93.2) 41 (93.2) 43 (97.7) 37 (84.1)	85 (90.4) 91 (96.8) 93 (98.9) 81 (86.2)
Years since diagnosis, median (range)	5.5 (0.3–12.9)		Penta-drug To last line of therapy	13 (29.5) 39 (88.6)	31 (33.0) 87 (92.6)
Triple-class ex	kposed pop	ulation, 36% v	vith extramedullary plasma	acytomas	LEUKEN LYMPH SOCIET





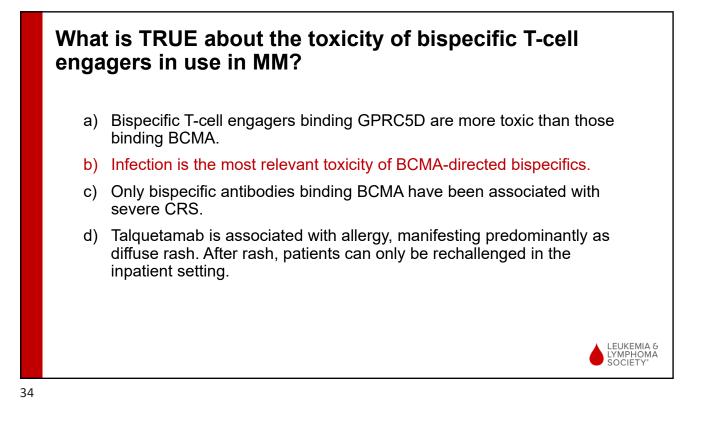


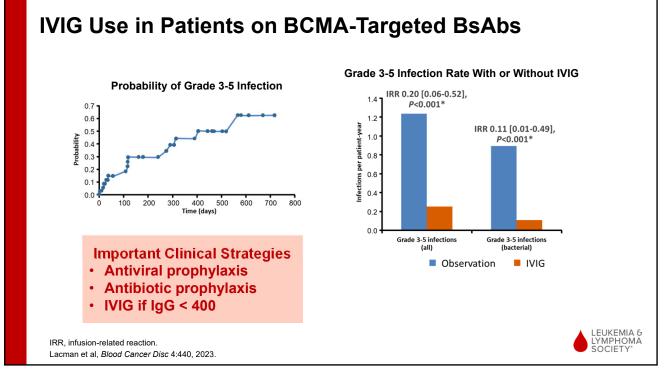


What is TRUE about the toxicity of bispecific T-cell engagers in use in MM?

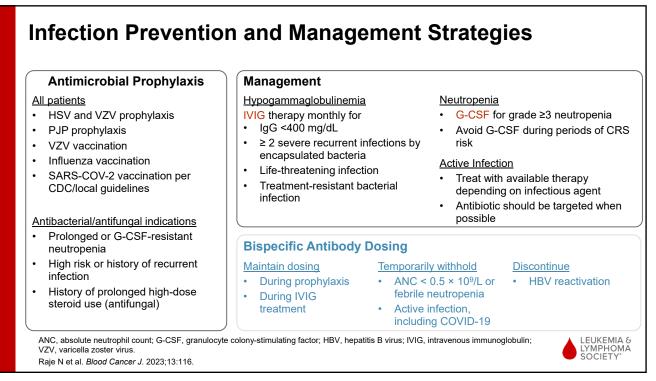
- a) Bispecific T-cell engagers binding GPRC5D are more toxic than those binding BCMA.
- b) Infection is the most relevant toxicity of BCMA-directed bispecifics.
- c) Only bispecific antibodies binding BCMA have been associated with severe CRS.
- d) Talquetamab is associated with allergy, manifesting predominantly as diffuse rash. After rash, patients can only be rechallenged in the inpatient setting.

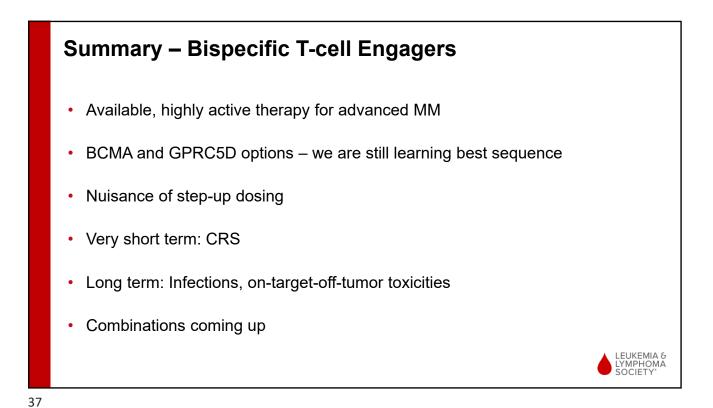


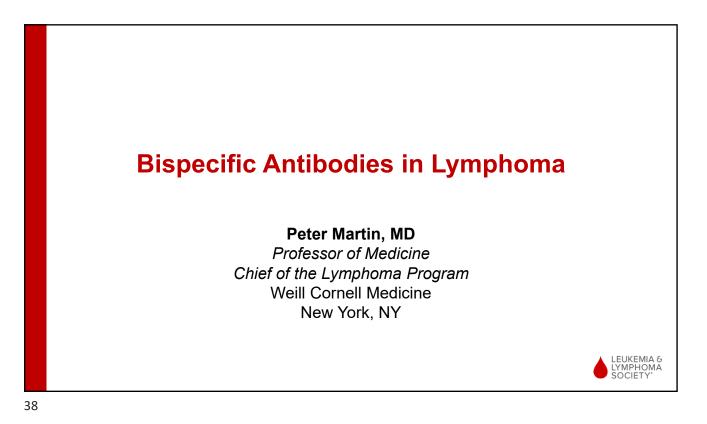








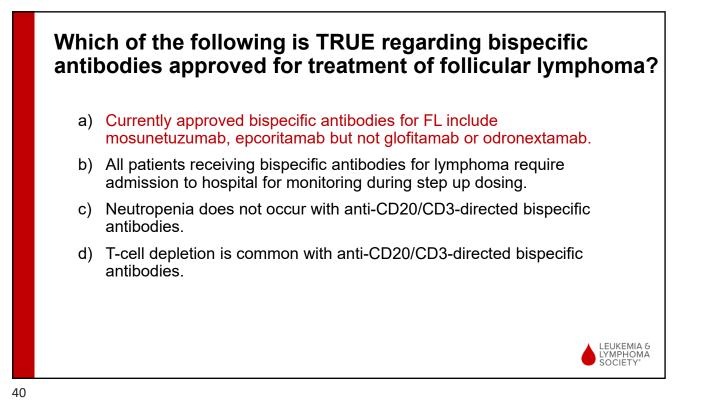




Which of the following is TRUE regarding bispecific antibodies approved for treatment of follicular lymphoma?

- a) Currently approved bispecific antibodies for FL include mosunetuzumab, epcoritamab but not glofitamab or odronextamab.
- b) All patients receiving bispecific antibodies for lymphoma require admission to hospital for monitoring during step up dosing.
- c) Neutropenia does not occur with anti-CD20/CD3-directed bispecific antibodies.
- d) T-cell depletion is common with anti-CD20/CD3-directed bispecific antibodies.





Which of the following is TRUE regarding bispecific antibodies approved for treatment of diffuse large B-cell lymphoma?

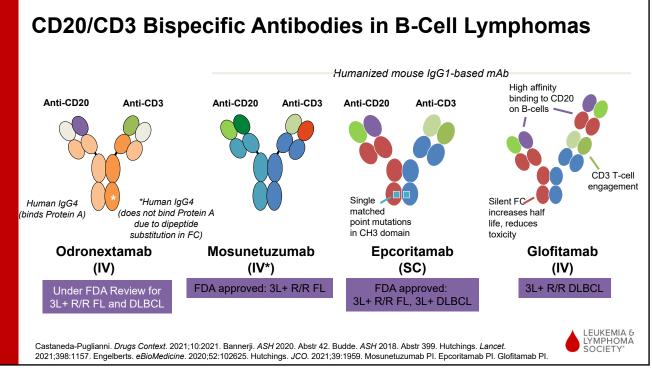
- a) Patients in PR experience a similar PFS compared to patients in CR as long as they continue to receive treatment.
- b) Patients receiving an anti-CD20/CD3 bispecific antibody should NOT receive pre-treatment with an anti-CD20 antibody because it blocks all the CD20.
- c) Bispecific antibodies do not work after CAR T cells because of immune exhaustion.
- d) Glofitamab has two anti-CD20 binding regions.



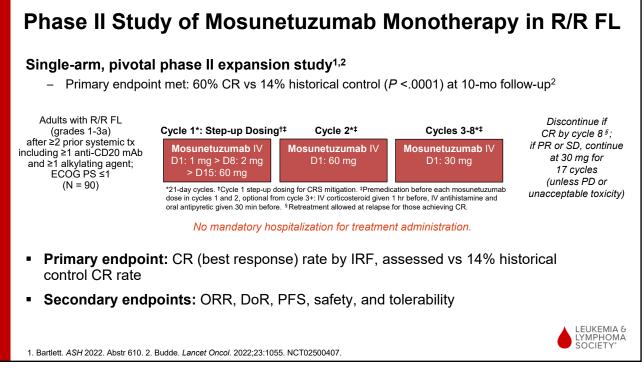
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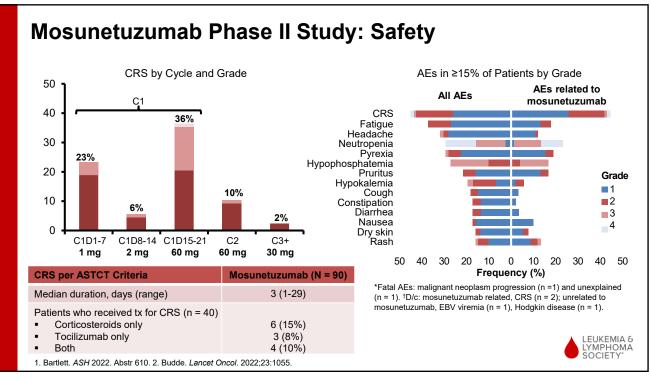


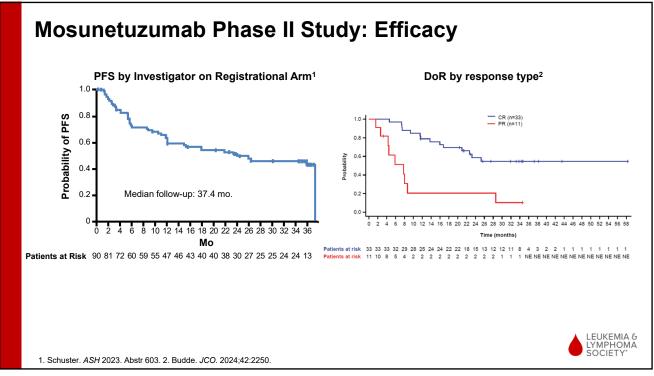




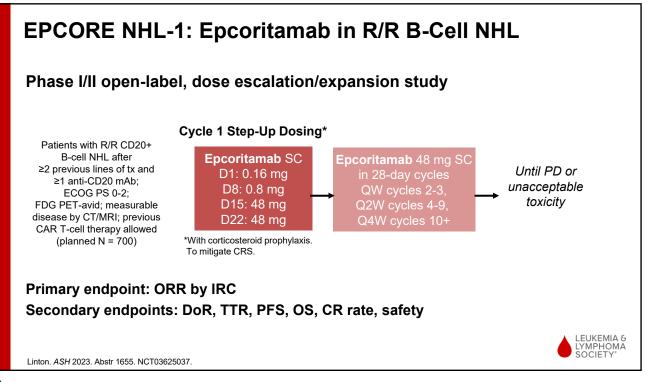
Mosunetuzumab Phase II Study: Baseline Characteristics	
Characteristic	Mosunetuzumab (N = 90)
Median age, yr (range)	60 (53-67)
Male, n (%)	55 (61)
ECOG PS 0/1, n (%)	53/37 (59/41)
Ann Arbor stage, n (%) I-II III-IV	21 (23) 69 (77)
Median prior lines, n (range)	3 (2-4)
Refractory to last prior therapy, %	62 (69)
Refractory to any prior anti-CD20 therapy, %	71 (79)
PD within 24 mo from start of first-line therapy (POD24), %	47 (52)
Double refractory to prior anti-CD20 therapy and alkylator, $\%$	48 (53)
Prior ASCT, %	19 (21)
Bartlett. ASH 2022. Abstr 610. Budde. Lancet Oncol. 2022;23:1055.	

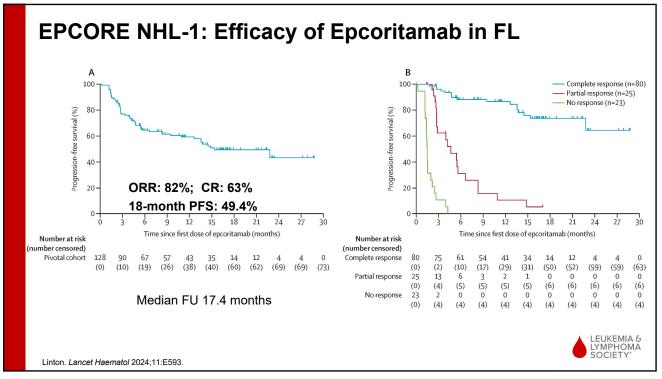




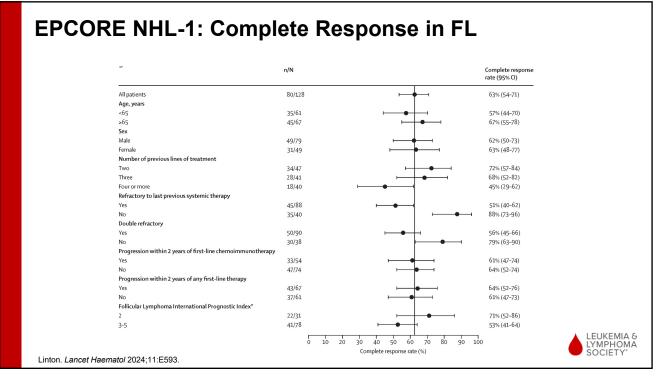


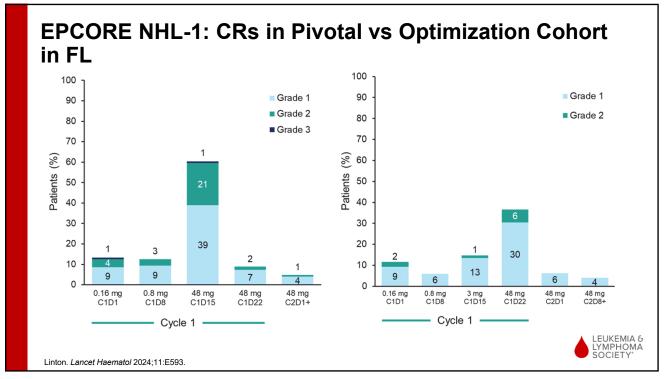




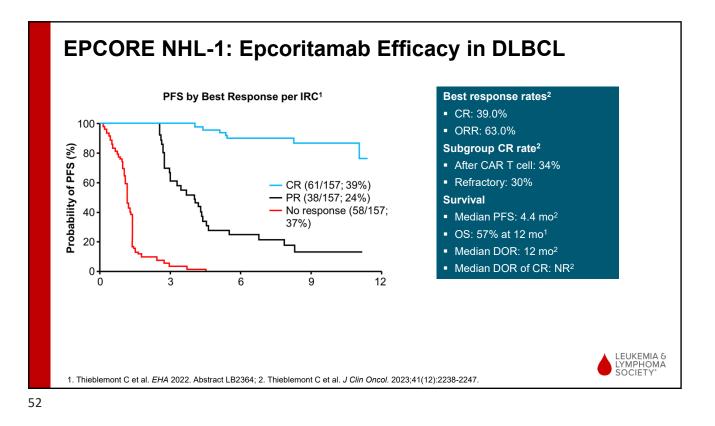


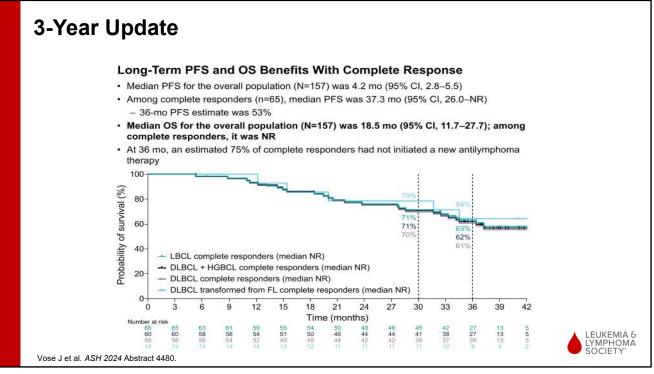




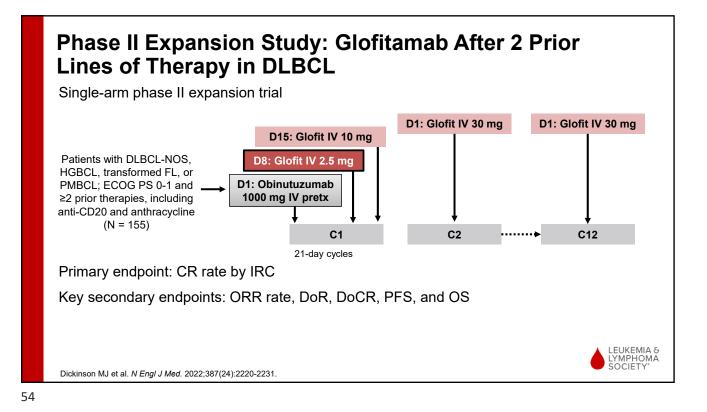










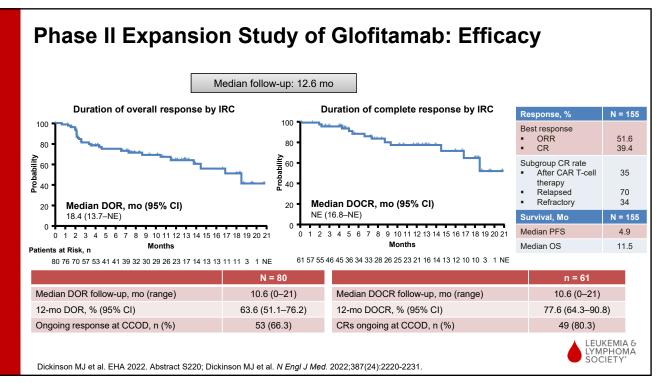


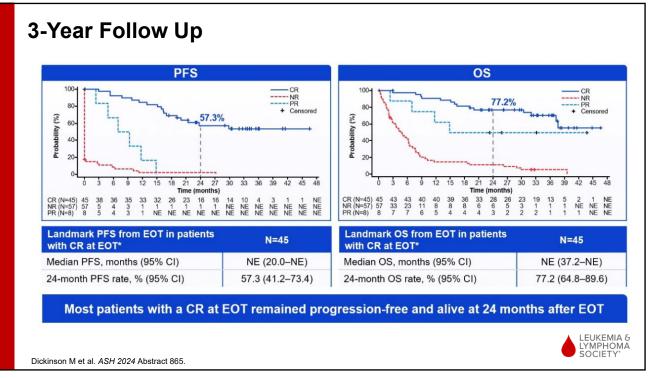
Phase II Expansion Study of Glofitamab: Baseline Characteristics

Characteristic	Glofitamab (N = 154)	Characteristic	Glofitamab (N = 15
Median age, yr (range)	66.0 (21-90)	Prior lines of therapy, median	3 (2-7)
Male, n (%)	100 (64.9)	(range) ■ 2 prior lines, n (%)	62 (40.3) 92 (59.7)
Ann Arbor stage, n (%) I I I I I I I I I I V	10 (6.5) 25 (16.2) 31 (20.1) 85 (55.2)	 ≥3 prior lines, n (%) Prior therapy received, n (%) Anti-CD20 antibody Anthracycline CAR T-cell therapy 	154 (100) 149 (96.8) 51 (33.1)
NHL subtype, n (%) DLBCL Transformed from FL HGBCL PMBCL	110 (71.4) 27 (17.5) 11 (7.1) 6 (3.9)	 ASCT Refractory disease, n (%) To any prior therapy To last prior therapy Primary refractory 	28 (18.2) 139 (90.3) 132 (85.7)
Bulky disease, n (%)	64 (41.6) 18 (11.7)	 To prior CAR T-cell therapy To any prior anti-CD20 antibody 	90 (58.4) 46 (29.9) 128 (83.1)

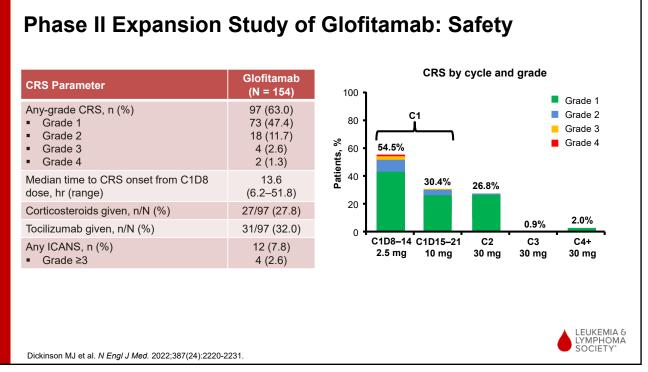
Dickinson MJ et al. N Engl J Med. 2022;387(24):2220-2231.

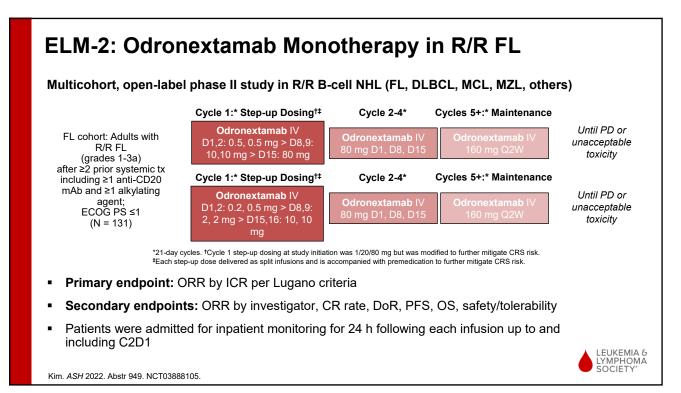




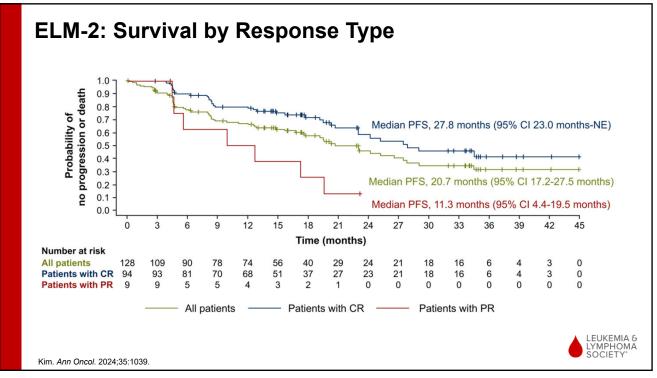


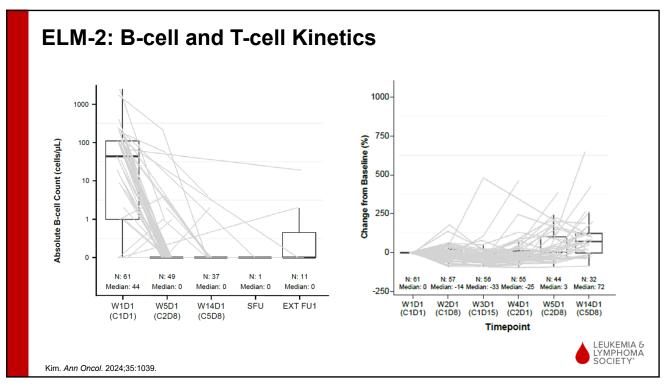




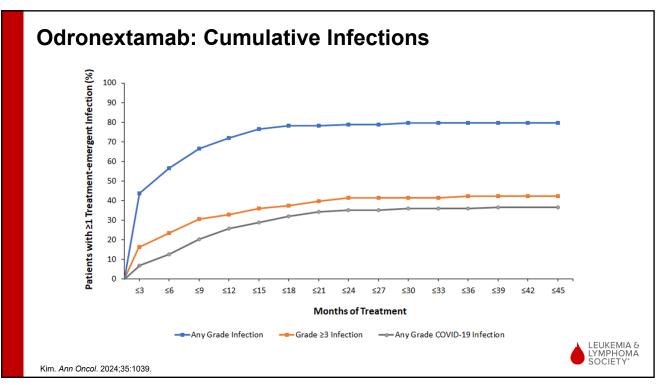


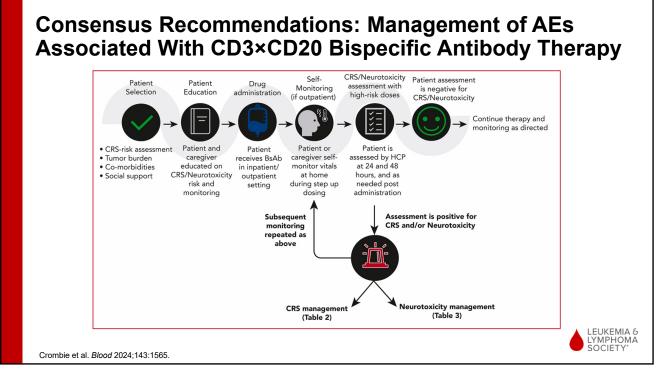












Key Considerations Before Initiating CD3xCD20 Bispecific Abs

Facility

- · Ensure insurance authorization for BsAb and supportive care medications (including tocilizumab), if applicable
- Ensure there is a facility with tocilizumab available within close radius of patient's location with a minimum of 2 doses of tocilizumab available for immediate use
- Ensure that clinic staff including registered nurses, pharmacists, and providers are aware of tocilizumab location and how to administer
- Designated location (clinic/infusion center) for patients to be treated outpatient if concerns for grade 1 or, in unique instances, grade 2 CRS
 Institutions should have dedicated pathways for escalating care for patients with grade 2 CRS not responsive to outpatient management or for patients with more severe CRS
- Use electronic medical records, if available, to create standard order sets for CRS management or acute care plans

Personnel

- · Provide education to staff involvement in administration, monitoring, and management of toxicities associated with BsAbs
- Appoint a dedicated health care team (eg, oncologist, advanced practice provider, nurse, and pharmacist) to monitor and manage complications. This can be the same team or a rotating team depending on institution capabilities.

Patient resources

- Ensure patients have access to a thermometer. This can be provided by the health care facility or purchased by the patient. Blood pressure cuff and pulse oximeter can also be helpful if available to the patient.
- Encourage patients to have educational sheet completed (Figure 1)
- Prescription for dexamethasone to use as needed for CRS. Patients should be instructed to administer only after discussing with care team.
- Ideally patients should remain near a facility that stocks tocilizumab during the treatment days with highest risk for development of CRS



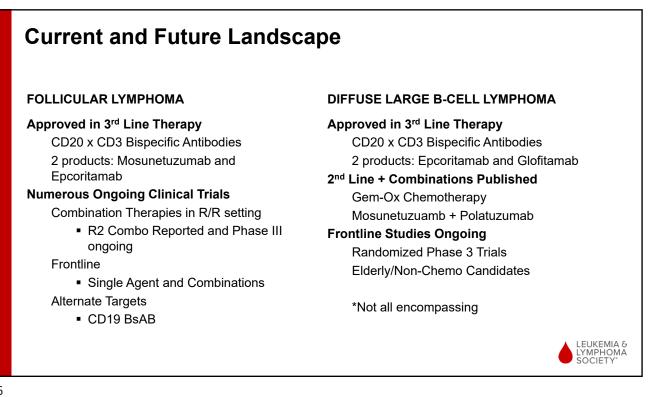
Crombie et al. Blood 2024;143:1565.

Prevention of Infection

Withhold if grade 4 neutropenia or active infection Neutropenia: consider liberal use of growth factors *Pneumocystis jirovecii* pneumonia: prophylaxis strongly recommended Herpes virus: prophylaxis strongly recommended Consider IVIG for IgG <400/chronic infection CMV has been reported Check CMV status? Monitor? Fungal infections have been reported PML has been reported

Mosunetuzumab PI. Epcoritamab PI.

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