2024:

È già ora di abbandonare la chemioterapia nella malattia recidivata/refrattaria?

Napoli, Hotel Paradiso • 29–30 aprile 2024

Anticorpi bispecifici: quali e quando utilizzarli

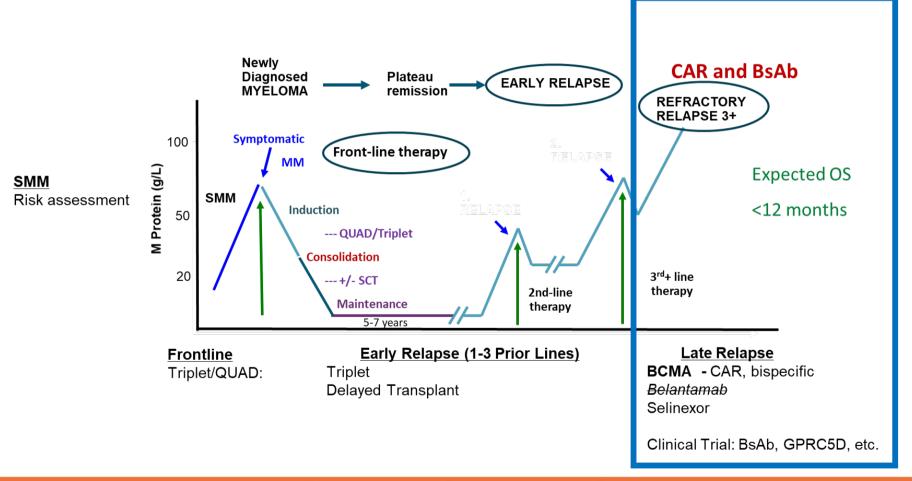
Massimo Offidani Clinica di Ematologia, AOU delle Marche, Ancona



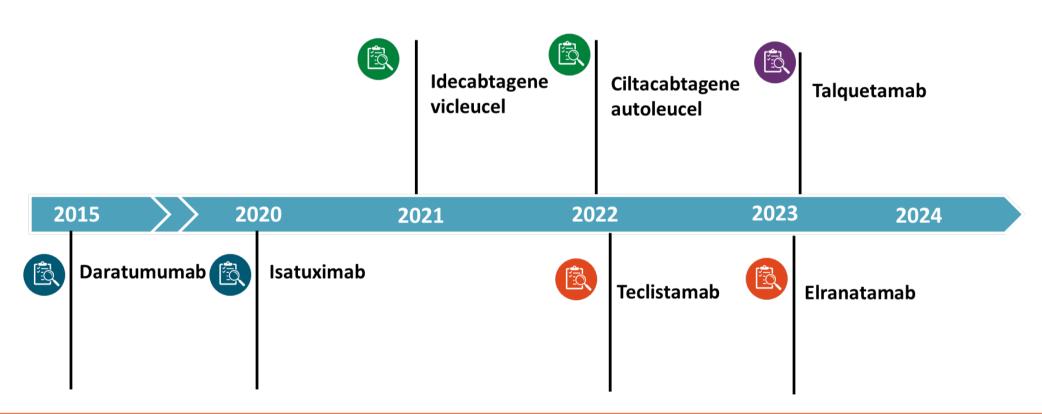
Disclosures of Massimo Offidani

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
AbbVie					х	х	
Amgen					x	x	
GSK					x	x	
Janssen					x	x	
Menarini					x		
Sanofi	x				x	x	
Takeda					X	x	

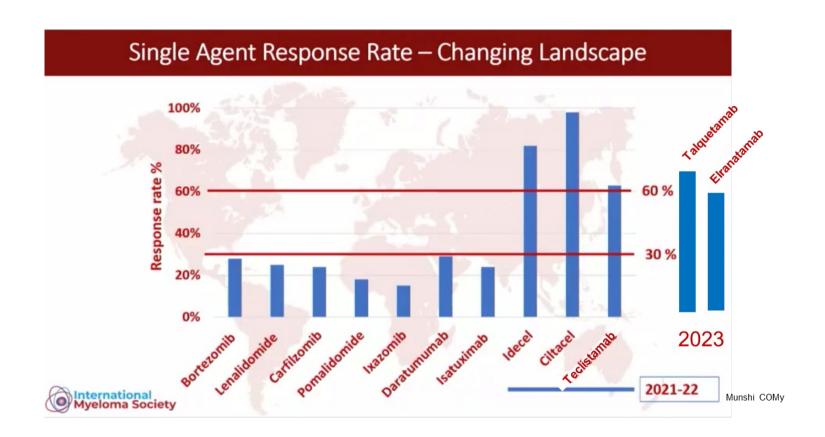
Current MM Treatment Paradigm



Novel Therapies in Multiple Myeloma



Amazing Success in Immunotherapy for MM

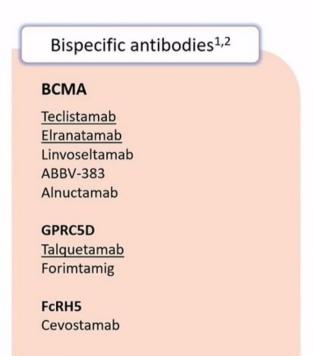


BCMA-targeting bispecific antibodies

	Approved BsAb		IV infus	IV infusion		CD3 low affinity
	Teclistamab MajesTEC-1 ¹ (n=165)	Elranatamab Magnetismm3 ² (n=123)	ABBV-383B ³ (n=118)	Linvoseltamab LINKER-MM1 ⁴ (n=117)	Alnuctamab ⁵ CC-93269 (n=68)	REGN5459 ⁶ (n=43)
Phase	1/11	1/11	1	II	1/11	1/11
Target	BCMA-CD3	BCMA-CD3	BCMA-CD3	BCMA-CD3	BCMA-CD3	BCMA-CD3
scFv	Humanized	Humanized	Human	Human	Humanized	Human
Ig	IgG4	lgG2a	lgG4	IgG4	IgG1-based	IgG4
Administration	SC	SC	IV	IV	SC	IV
# prior lines	5 (2-14)	5 (2-12)	5 (1-15)	5 (2-14)	4 (3-11)	5 (2-9)
Age	64 (33-84)	69 (44-89)	68 (35-88)	70 (37-91)	64 (36-79)	67 (26-85)
	Tadistemab Micasona admin administrative	Comment Text salmenter Element Text salmenter Service Lineary of		Fab regions Fab region Variable region		low affinit to CD

¹Nooka et al. ASCO 2022; ² Bahlis et al. ASH 2022; ³ Voorhees et al. IMS 2022; ⁴ Hans L. et al. ASCO 2023; ⁵ Wong et al. ASH 2019; ⁶ Suvannasankha et al. AACR 2023

Bispecific antibodies redirecting T-cells against myeloma cells1



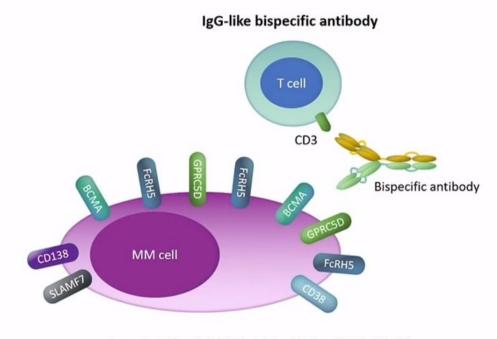


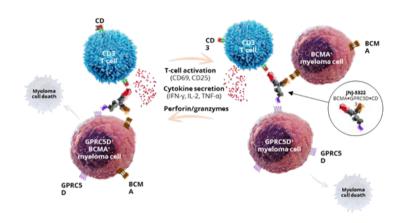
Image adapted from Verkleij CPM, et al. Curr Opin Oncol 2020;32:664-71.3

BCMA, B-cell maturation antigen; IgG, immunoglobulin G.

1. Lancman G, et al. Blood Cancer Discov 2021;2:423-433; 2. Tapia-Galisteo A, et al. J Hematol Oncol 2023;16:83; 3. Verkleij CPM, et al. Curr Opin Oncol 2020;32:664-71.

JNJ-79635322 Is a Potential First-in-Class Trispecific Antibody Targeting BCMA, GPRC5D, and CD3

- Dual antigen targeting may enhance tumor response by circumventing tumor heterogeneity and antigen loss and improving potency due to antigen binding avidity
- JNJ-79635322 (JNJ-5322) is an IgG1 trispecific antibody that binds to CD3 on T cells and BCMA and GPRC5D on MM cells

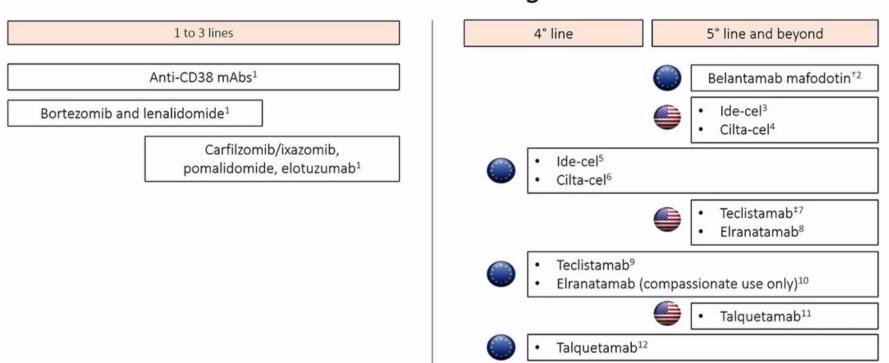


- In vitro, JNJ-5322 induced potent and dose-dependent cytotoxicity with concomitant T-cell activation only in myeloma cell lines that expressed one or both target proteins (BCMA, GPRC5D)
- JNJ-5322 also induced CD138⁺ plasma cell depletion when tested using patient-derived myeloma bone marrow mononuclear cells in a co-culture assay
- In vivo, JNJ-5322 induced potent antitumor activity in models that expressed one or both target proteins

A phase 1 dose-escalating study of JNJ-5322 in patients with RRMM is ongoing (NCT05652335)

Pillarisetti K et al. ASH 2023

Treatment approach to triple-class exposed MM in the "T-cell redirecting" era*

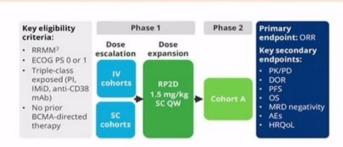


^{*}Please note that not all treatments shown on this slide are currently approved in this setting for the allocated geographical region; +The EMA's human medicine committee recommended to not renew Blenrep's conditional marketing authorization in September 2023¹³; +In the US, patients receiving teclistamab should be hospitalised for 48 hours after administration of all doses within the dosing schedule. BCMA, B-cell maturation antigen.

^{1.} Dimopoulos MA, et al. Ann Oncol 2021;32:309—322; 2. Blenrep EU SmPC, June 2023; 3 Abecma US PI, March 2021; 4. CARVYKTI US PI, February 2023; 5. Abecma EU SmPC, October 2021; 6. CARVYKTI EU SmPC, July 2023; 7. TECVAYLI US PI, November 2022; 8. ELREXFIO US PI, August 2023; 9. TECVAYLI EU SmPC, August 2023; 10. Pfizer filing acceptance press release. Available at: https://www.pfizer.com/news/press-release/press-release-detail/pfizers-elranatamab-receives-fda-and-ema-filing-acceptance (last accessed August 2023); 11. TALVEY US PI, August 2023; 12. TALVEY EU SmPC, September 2023; 13. Press release. Available at: https://www.ema.europa.eu/en/news/ema-recommends-non-renewal-authorisation-multiple-myeloma-medicine-blenrep (last accessed September 2023).

BCMA × CD3 T-Cell bispecific antibody: Teclistamab MajesTEC-1, Phase Ib/II study¹

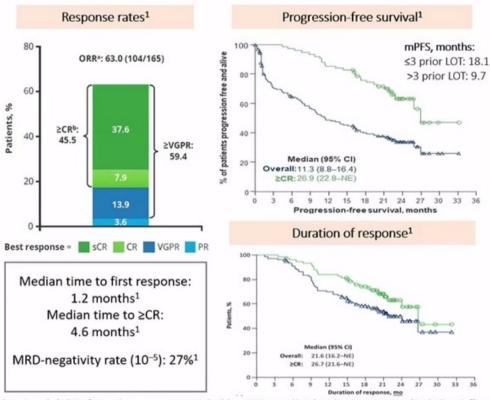
Trial design and dosing schedule1



Teclistamab dosing schedule: QW; option to switch to Q2W* after ≥4 cycles (Phase I) if ≥PR or after 6 months (Phase II) if ≥CR²

Baseline characteristics, N=1651

Extramedullary disease,† n (%)	28 (17.0)
High-risk cytogenetics, n (%)	38 (25.7)
ISS stage III, n (%)	20 (12.3)
Prior lines of therapy, median (range)	5 (2-14)
Refractory status, n (%)	
Triple-class refractory	128 (77.6)
Penta-drug refractory	50 (30.3)



^{*}Patients could further switch to monthly dosing if they demonstrated continued response on the QZW schedule; †Includes patients who had ≥1 soft tissue plasmacytoma not associated with bone; *ORR assessed by independent review committee; *For the Phase II efficacy population (patients enrolled in cohort A on or before March 18, 2021), ≥CR rate was 46.4% (51/110).

1. Van de Donk NWCJ, et al. ASCO 2023 (Abstract No. 8011 – presentation); 2. Press release, August 2023. Available at: https://www.jnj.com/european-commission-approves-reduced-dosing-frequency-for-janssens-bispecific-antibody-tecvayliteclistamab#:*:text=BEERSE%2C%20Belgium%2C%2018%20August%202023,kg%20every%20two%20weeks%20in (last accessed September 2023).

AE, adverse event; BCMA, B-cell maturation antigen; CI, confidence interval; CR, complete response; DOR, duration of response; ECOG, Eastern Cooperative Oncology Group; HRQoL, health-related quality of life; IMiD, immunomodulatory agent; IV, intravenous; LOT, line of therapy; (m)PFS, (median) progression-free survival; MRD, minimal residual disease; ORR, overall response rate; OS, overall survival; PD, pharmacodynamics; PFS, progression-free survival; PI, proteasome inhilitor; PK, pharmacokinetic; PR, partial response; PS, performance status; Q2W, every 2 weeks; QW, weekly; RP2D, recommended phase 2 dose; RRMM, relapsed/refractory multiple myeloma; SC, subcutaneous; sCR, stringent complete response; VGPR, very good partial response.

Comparative Efficacy of Teclistamab Versus Current Treatments in Real-World Clinical Practice in the Prospective LocoMMotion Study in Patients with Triple-Class-Exposed Relapsed and/or Refractory Multiple Myeloma

Philippe Moreau · Niels W. C. J. van de Donk · Michel Delforge ·

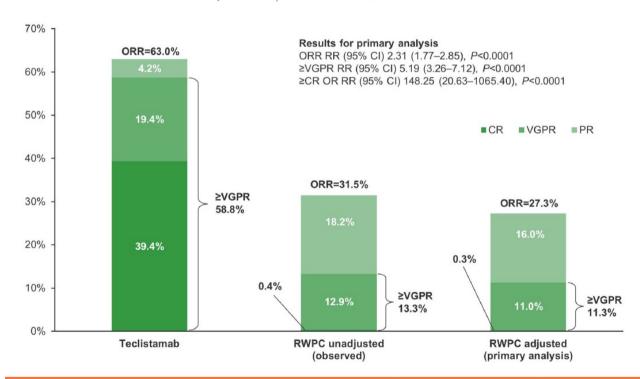
Hermann Einsele · Valerio De Stefano · Aurore Perrot ·

Adv Ther (2023)

Britta Besemer · Charlotte Pawlyn · Lionel Karlin · Salomon Manier Xavier Leleu · Katia Weisel · Francesca Ghilotti · Ioris Diels ·

Ahmed Elsada · Raul Morano · Vadim Strulev · Lixia Pei

Rachel Kobos · Jennifer Smit · Mary Slavcev · Maria-Victoria Mateos



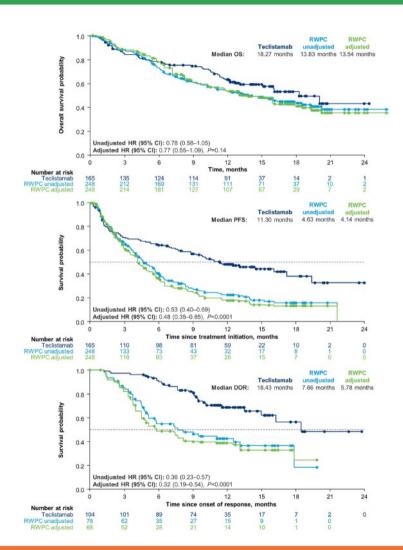
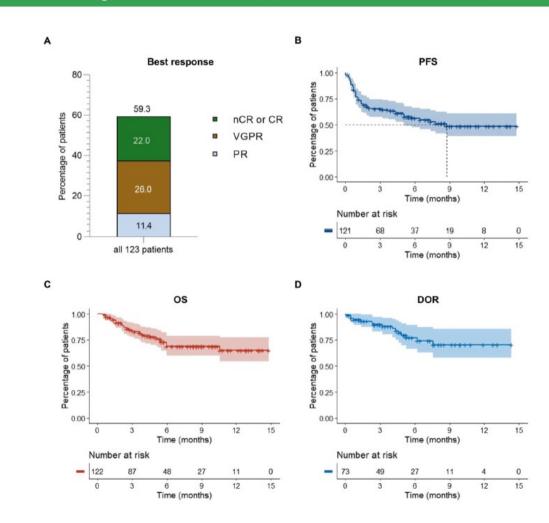


Table 1. Patient characteristics at baseline in comparison to MAJESTEC-1.

Characteristic	MAJESTEC-1	Real-world
Median age (range) - yr	64.0 (33.0-84.0)	67.0 (35.0-87.0)
Gender: male/female - %	58.2/41.8	56.9/43.1
Median time since diagnosis - yr (range)	6.0 (0.8–22.7)	6.5 (0.5–18.7)
Median no. of lines of previous therapy (range)	5 (2–14)	6 (3–14)
Extramedullary disease - no./ total no. (%)	28/165 (17.0)	43/119 (36.1)
≥60% plasma cells in bone marrow no./total no. (%)	18/160 (11.2)	21/59 (35.6)
ISS no./total no. (%)		
1	85/162 (52.5)	25/92 (27.1)
II	57/162 (35.2)	35/92 (38.0)
III	20/162 (12.3)	31/92 (33.7)
High risk cytogenetic profile no./total no. (%)	38/148 (25.7)	39/106 (36.8)
Refractory status no./total no. ((%)	
triple-class	128/162 (77.6)	113/123 (92.6)
penta-drug	50/162 (30.3	74/123 (60.2)

Riedhammer et al, Leukemia 2024



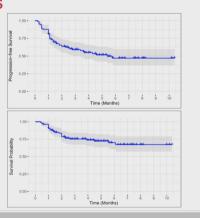
Patients Characteristics	N = 106	MTec-1 (N=165)
Age, years, median (range)	66.5 (35-87)	64 (33-84)
Age >70 years, n (%)	34 (32)	
Median time since diagnosis, years (range)	5.5 (0.5-20)	6.0 (0.8-22.7)
Number of prior lines of therapy (median, range)	6 (4-17)	5 (2-14)
>4 prior LOT, n (%)	80 (75)	
Non-Hispanic White, n (%) Non-Hispanic Black, n (%)	72 (68) 28 (26)	134 (81) 21 (13)
R-ISS stage III, n (%)	25/80 (31)	20/162 (12)
ECOG Performance Status ≥2, n (%)	35 (33)	-
High-risk cytogenetics, n (%)	56/95 (59)	38/148 (26)
Extramedullary disease (EMD), n (%)	45 (42)	28 (17)
Refractory status: • Triple Refractory, n (%) • Penta refractory, n (%)	97 (92) 68 (64)	128 (78) 50 (30)
Prior BCMA-directed Therapy	56 (53)	-
Prior autologous stem cell transplant, n (%)	61 (58)	135 (82)
Prior allogeneic stem cell transplant, n (%)	3 (3)	

Results: Survival Outcomes

- After a median follow up of <u>3.8 months</u>, a total of 46 patients progressed while on teclistamab.
- The median PFS for the entire cohort was 5.4 months (95% CI, 3.4 months not reached).
- At data cut off, a total of 29 patients had died; most (86%) from disease progression.

Cause of Death	Total deaths = 29
MM progression while on Teclistamab	21
Severe infection while on Teclistamab	3
Later MM progression while on next line of therapy	4
Myocardial infarction while on next line of therapy	1

- The median OS was not reached
- The 6-month and 10-month OS rates were 70% (95% CI, 61-80%) and 67% (95% CI, 57-79%), respectively.

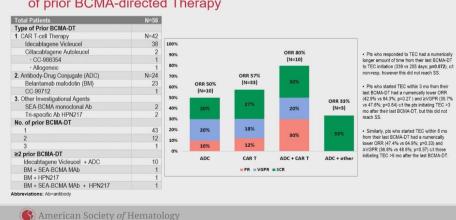


Results: Response to Teclistamab

Response (Full Cohort) N (%)	RWE cohort N=104	MajesTec-1 N=165
Overall response rate	70 (66)	104 (63)
Complete response or better	31 (29)	65 (39.4)
Very good partial response	18 (17)	32 (19.4)
Partial response	21 (20)	7 (4.2)
Minimal response	0	2 (1.2)
Stable disease	10 (9.5)	27 (16.4)
Progressive disease	26 (24.5)	24 (14.5)
Not evaluable	0	8 (4.8)

Subgroups of Interest	ORR, N (%)
Age>70 (n=34)	24 (71)
Non-Hispanic Black (n=28)	20 (71)
Pts ineligible for MajestEC-1 trial (n=88)	53 (60)
High-risk cytogenetics (n=56)	35 (63)
Triple Refractory (n=97)	62 (64)
Penta refractory (n=68)	46 (68)
Prior BCMA therapy	33 (59)
R-ISS III (n=25)	13 (52)
EMD (n=45)	21 (47)
Four or less prior LOT (n=26)	21 (81)
>4 lines of prior therapy (n=80)	49 (61)

Results: Response Rates to Teclistamab by Specific Type of prior BCMA-directed Therapy

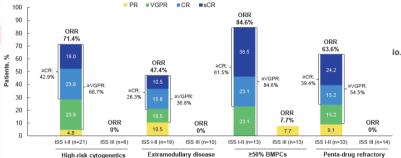


American Society of Hematology

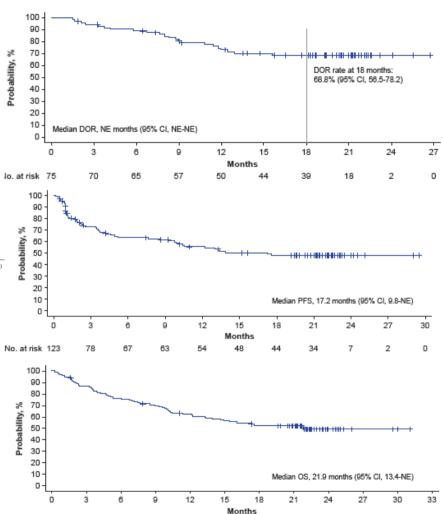
BCMA × CD3 T-cell bispecific antibody: Elranatamab

MagnetisMM-3 study, cohort A: BCMA-naïve patients1

Elranatamab dosing schedule	
QW cycles 1–6; Q2W cycles 7+ for patie	nts with ≥PR
Baseline characteristics, Cohort A (N=123)1
Extramedullary disease by BICR,† n (%)	39 (31.7)
Bone marrow plasma cells, n (%)	
<50%	89 (72.4)
≥50%	26 (21.1)
Missing	8 (6.5)
Prior lines of therapy, median (range)	5 (2-22)
Prior stem cell transplant, n (%)	87 (70.7)
Exposure status, n (%)	
Triple-class	123 (100.0)
Penta-drug	87 (70.7)
Exposure status, n (%)	
Triple-class	119 (96.7)
Penta-drug	52 (42.3)
Refractory to last line of therapy, n (%)	118 (95.9)





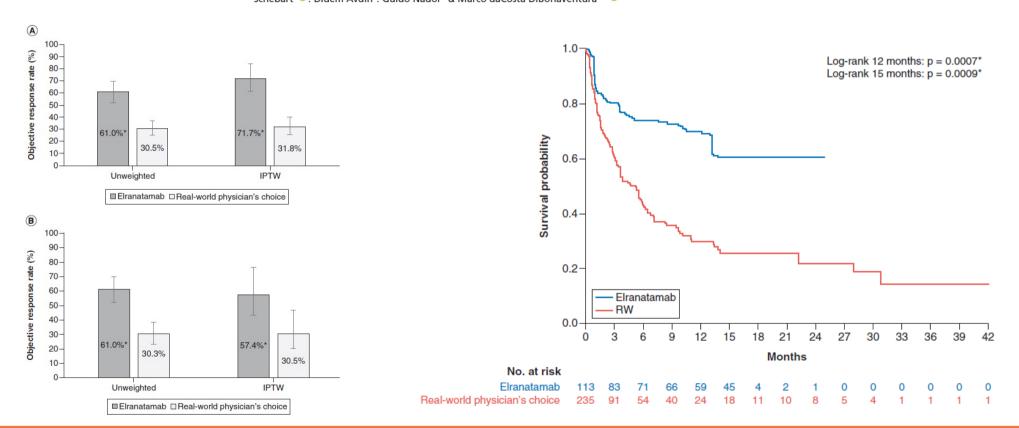


Napoli, Hotel Paradiso • 29-30 aprile 2024

Elranatamab efficacy in MagnetisMM-3 compared with real-world control arms in triple-class refractory multiple myeloma

Future ONCOLOGY 28 February 2024

Luciano J Costa¹, Thomas W LeBlanc², Hans Tesch³, Pieter Sonneveld⁴, Ryan P Kyle⁵, Liliya Sinyavskaya⁵, Patrick Hlavacek⁶, Aster Meche⁶, Jinma Ren⁷, Alex Schepart⁶, Didem Aydin⁶, Guido Nador⁸, Marco daCosta DiBonaventura*, ⁶

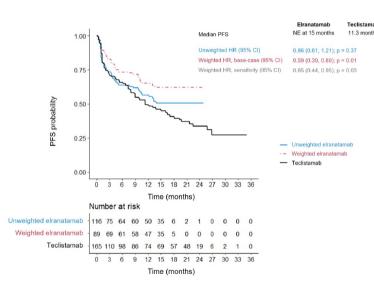


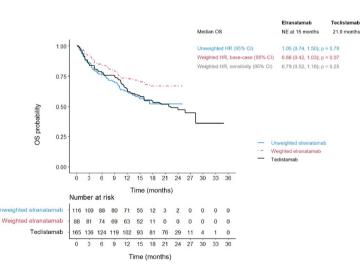
A matching-adjusted indirect comparison of the efficacy of elranatamab versus teclistamab in patients with triple-class exposed/refractory multiple myeloma

Leukemia & Lymphoma 2024

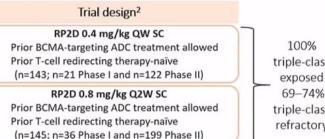
Isha Mol^a (a), Yannan Hu^a, Thomas W. LeBlanc^b (b), Joseph C. Cappelleri^c, Haitao Chu^d (b), Guido Nador^e, Didem Aydin^f, Alex Schepart^d (b) and Patrick Hlavacek^d

	MagnestisMM-3 (cohort A; $n = 116$)	Majestec-1 (n = 165)
Age, median, years	68	64
≥75 years	18%	15%
Sex, male	55%	58%
Median time since diagnosis, years	6.2	6.0
High-risk cytogenetics	27%	23%
ISS risk stage		
Stage I	30%	52%
Stage II	37%	35%
Stage III	20%	12%
ECOG status		
0	39%	33%
1	61%	67%
Extramedullary disease	28%	17%
Number of prior lines, median	5	5
>3 lines of therapy	79%	74%
Refractory/exposure status		
Triple-class refractory ^a	97%	78%
Penta-drug refractory	41%	30%
Penta-drug exposed	71%	70%

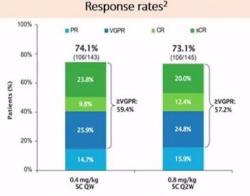




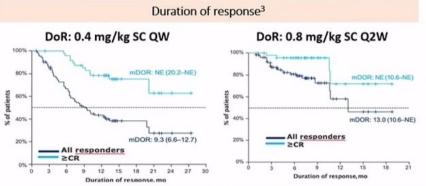
GPRC5D × CD3 T-cell bispecific antibody: Talquetamab MonumenTAL-1, Phase I/II study1-3



Prior T-cell redirection (QW and Q2W) Patients received either 0.4 mg/kg QW or 0.8 mg/kg talquetamab (n=51; n=17 Phase I and n=34 Phase II)



triple-class exposed 69-74% triple-class refractory



Overall mPFS: 7.5 months (95% CI, 5.7-9.4) Overall mPFS: 11.9 months (95% CI, 8.4-NE)

Selected AEs , n (%)	0.4 mg/kg So (n=14		0.8 mg/kg SC Q2W ^a (n=145)		
	Any grade	Grade 3/4	Any grade	Grade 3/4	
CPS	113 (79.0)	3 (2.1)	108 (74.5)	1 (0.7)	
ICANS	NR (10.7)	2 (2)	NR (11.0)	2 (2)	
Skin-related AEs	80 (55.9)	0	106 (73.1)	1 (0.7)	
Nail-related AEs	78 (54.5)	0	78 (53.8)	0	
Dysgeusia	103 (72.0)	NA	103 (71.0)	NA	
Weight decreased	59 (41.3)	3 (2.1)	60 (41.4)	8 (5.5)	
Infections	84 (58.7)	28 (19.6)	96 (66.2)	21 (14.5)	

Safety²

AE, adverse event; BCMA, B-cell maturation antigen; CI, confidence interval; CR, complete response; CRS, cytokine release syndrome; DOR, duration of response; ICANS, immune cell effector cell-associated neurotoxicity syndrome; mPFS, median progression-free survival; PR, partial response; NA, not applicable; NR, not reported; Q2W, every 2 weeks; QW, weekly; RP2D, recommended Phase II dose; SC, subcutaneous; sCR, stringent complete response; VGPR, very good partial response. 1. Chari A, et al. N Engl J Med 2022;387:2232-2244; 2. Schinke CD, et al. ASCO 2023 (Abstract No. 8036 - oral presentation); 3. Chari A, et al. ASH 2022 (Abstract No. 157 - presentation).

Talquetamab vs Real-World Physician's Choice of Therapy:

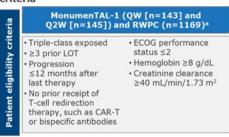
Comparative Efficacy in Patients With TCE RRMM

Data sources

- Individual patient-level data from MonumenTAL-1 were included for pts who received sc talquetamab 0.4 mg/kg QW or 0.8 mg/kg Q2W by a data cut-off of January 2023
- An external control group was created from eligible pts in the Flatiron database who met MonumenTAL-1 eligibility criteria by a data cut-off of July 2022

State of the state		juetamab QW vs R	WPC	Talqı	uetamab Q2W vs R	WPC
Outcome/analysis	Median, mo	HR (95% CI)	P value	Median, mo	HR (95% CI)	P value
PFS						
Primary analysis	7.5 vs 4.0	0.55 (0.44-0.69)	<0.0001	14.2 vs 4.0	0.40 (0.31-0.53)	<0.0001
Fully adjusted model	7.5 vs 4.2	0.56 (0.45-0.71)	<0.0001	14.2 vs 4.0	0.41 (0.31-0.54)	<0.0001
TTNT	A25					
Primary analysis	9.1 vs 5.1	0.59 (0.47-0.74)	<0.0001	13.3 vs 5.1	0.45 (0.35-0.59)	<0.0001
Fully adjusted model	9.1 vs 5.1	0.60 (0.48-0.77)	<0.0001	13.3 vs 5.0	0.46 (0.36-0.61)	<0.0001
0S						
Primary analysis	NR vs 16.5	0.56 (0.40-0.78)	0.0007	NR vs 15.9	0.48 (0.33-0.70)	0.0002
Fully adjusted model	NR vs 16.8	0.58 (0.41-0.83)	0.0029	NR vs 17.5	0.50 (0.34-0.75)	0.0008

FIGURE 1: Key patient eligibility



RWPC cohort included 629 patients who received 1169 treatment regimens across all eligible lines of therapy. CAR, chimeric antioen receptor.

TABLE 1: Treatment regimens in the RWPC cohort^a

Treatment regimen	Frequency, n (%) b (n=1169)
Pomalidomide, elotuzumab, dexamethasone	56 (4.8)
Pomalidomide, daratumumab, dexamethasone	46 (3.9)
Clinical study drug	43 (3.7)
Carfilzomib, dexamethasone	42 (3.6)
Carfilzomib, cyclophosphamide, dexamethasone	36 (3.1)
Carfilzomib, dexamethasone, pomalidomide	32 (2.7)
Belantamab mafodotin-blmf	23 (2.0)
Bortezomib, selinexor, dexamethasone	23 (2.0)
Elotuzumab, lenalidomide, dexamethasone	22 (1.9)
Daratumumab, dexametha sone	21 (1.8)
Selinexor, dexametha sone	21 (1.8)
Daratumumab, dexametha sone, lenalidomide	19 (1.6)
Pomalidomide, dexamethasone	19 (1.6)
Bortezomib, daratumumab, dexamethasone	18 (1.5)
Clinical study drug, dexamethasone	18 (1.5)
Daratumumab/hyaluronidase-fihj, dexamethasone, pomalidomide	16 (1.4)

^oOnly treatment combinations used in ≥16 patients are presented. Percentages are calculated with the number of treatment regimens received by the 629 patients in the RWPC cohort set as the denominator (n=1169).

Ye JC, et al. IMS 2023. Poster P-328



MonumenTAL-1: Toxicity Data

- In QW, Q2W, and prior TCR cohorts, respectively
 - ICANS occurred in 10.7%, 11.0%, and 2.9%
 - AEs led to dose reductions in 14.7%, 8.3%, and 9.8%
 - AEs led to discontinuation in 4.9%, 8.3%, and 7.8%
- · Across all 3 cohorts
 - Dysgeusia and skin- and nail-related AEs were mostly grade 1/2
 - 5 patients discontinued due to skin-related AEs (n=3) or dysgeusia (n=2)
 - No patients discontinued due to nail-related AEs

-56	







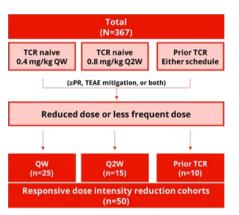
	0.4 mg/k (n=1		0.8 mg/kg (n=1			TCR 51)
AEs (≥30% in any cohort), n (%)	Any Grade	Grade 3/4	Any Grade	Grade 3/4	Any Grade	Grade 3/4
Nonhematologic A	Es					
CRS	113 (79.0)	3 (2.1)	108 (74.5)	1 (0.7)	39 (76.5)	1 (2.0)
Dysgeusia	103 (72.0)	NA	103 (71.0)	NA	39 (76.5)	NA
Infections	84 (58.7)	28 (19.6)	96 (66.2)	21 (14.5)	37 (72.5)	14 (27.5)
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
Weight decreased	59 (41.3)	3 (2.1)	60 (41.4)	8 (5.5)	15 (29.4)	0
Rash related	57 (39.9)	2 (1.4)	43 (29.7)	8 (5.5)	18 (35.3)	2 (3.9)
Pyrexia	56 (39.2)	4 (2.8)	40 (27.6)	2 (1.4)	16 (31.4)	0
Dry mouth	38 (26.6)	0	58 (40.0)	0	26 (51.0)	0
Fatigue	35 (24.5)	5 (3.5)	40 (27.6)	1 (0.7)	23 (45.1)	1 (2.0)

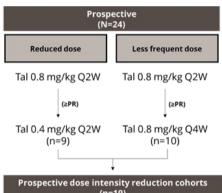
- Dysgeusia and dry mouth managed with mouth washes, saliva stimulants, or dose modifications
- Rashes managed with topical or oral steroids
- Most grade 3/4 AEs hematologic (60%); generally confined to cycle 1/2

NA = not applicable.

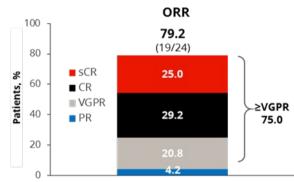
Touzeau C, et al. Presented at: EHA 2023 Congress; June 8-11, 2023; Frankfurt, Germany. Abstract S191. Narayan N, et al. *JAAD Case Rep.* 2023;31:66-68.

MonumentTAL-1: Efficacy and Safety of Less Frequent/Lower Intensity **Dosing of Talquetamab**





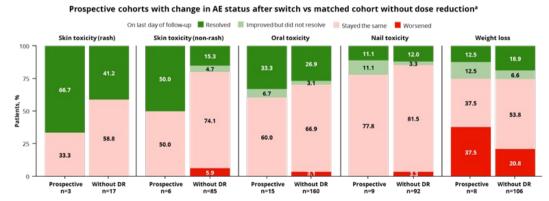
Patients with dose reductions had
to be in response (n=19); dose
reduction occurred at a median of
3.1 mo (range, 2.3-4.2) relative to
treatment start



	Prospective (n=19)
Median follow-up, mo (range) ^a	13.2 (4.0+–16.1)
Median PFS, mo (95% CI) ^a	13.2 (8.8-NE)
12-mo PFS rate, % (95% CI) ^a	50.1 (27.9-68.7)
Median DOR, mo (95% CI)	NE (8.3-NE)



- In the 0.8 mg/kg Q2W registrational cohort (n=145)^{1,b}
 - ORR: 71.7%
 - Median PFS: 14.2 mo (95% CI, 9.6-NE)
 - 12-mo PFS rate: 54.4%
 - Median DOR: NE (95% CI, 13.0-NE)



Trend toward improved resolution of GPRC5D-related AEs, except weight loss

Chari A, et al. ASH 2023

BCMA-targeting BsAbs: summary of efficacy

Bispecific Antibody	Teclistamab	Elranatamab	Linvoseltamab (REGN5458)	ABBV-383	Alnuctamab (BMS-93269)
Structure/Function	Humanized antibody	Humanized antibody	Veloci-Bi [°] platform fully human antibody	Low CD3 affinity fully human antibody	Humanized antibody Bivalent binding
Treatment	Weekly SC	Weekly SC	Weekly IV	IV q3w	Qwk -> Q4wk SC
Patients	n= 165	n= 123	n= 252	n= 174	n= 68
Median prior lines	5	5	5	5	4
Triple-class refractory	78%	97%	81%	80%	63%
ORR at RP2d	63%	61%	64%	58-61%	65%
RP2D	1.5 mg/kg SC	76 mg SQ	200 mg IV	40 to 60 mg IV	30 mg SQ
(n)	(n=165)	(n=123)	(n=58)	(n=52; n=59)	(n=26)
PFS	11.3 mos (8.8-17.1)	NE @ 12 mos; 51% @ 15 mos	NR	13.7 or 11.2 mos	NR
DOR	18.4 mos (14.9-NE)	NE @12 mos	89% @ 6 mos	NE	NE
Median f/u	14.1 mos	10.4 mos	3.2 mos	6.8	4.6 mos

Most BCMA×CD3 bispecific antibodies have been evaluated in TCR MM patients.

ORR ranges from 50–71% and covers the unmet need. PFS is approx 1 year for most bsAbs

Moreau P et al. N Engl J Med. 2022;387(6):495-505. Bahlis NJ et al. 2022 ASH. Abstract 1936. Voorhees PM et al. 2022 ASH. Abstract 1919. Wong SW et al. 2022 ASH. Abstract 162. Abdallah AO et al. 2022 ASH. Abstract 1936. Voorhees PM et al. 2022 ASH. Abstract 1919. Wong SW et al. 2022 ASH. Abstract 1936. Voorhees PM et al. 2022 A

Non-BCMA Bispecific Antibodies

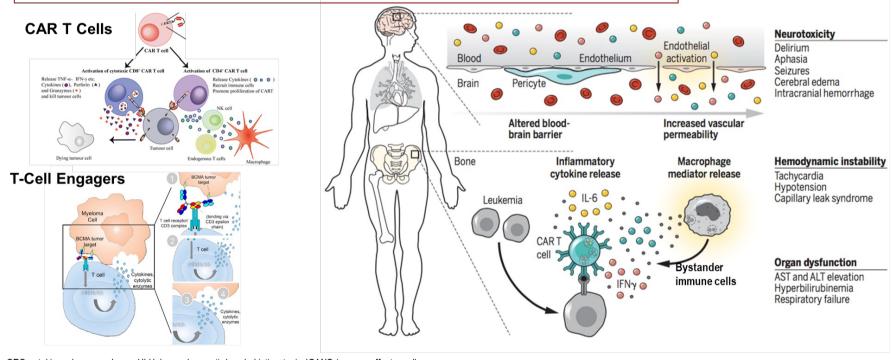
		Anti-GPRC5d Talquetamab			PRC5D tamig	Anti-FCRH5 Cevostamab
Patients (n)	143 T-cell redirecting therapy naïve (ADC allowed)	145 T-cell redirecting therapy naïve (ADC allowed)	51 Prior anti-BCMA TT (CARs/BsAb) allowed	51 Prior anti-BCMA TT (CARs/BsAb) allowed	57 Prior anti-BCMA TT (CARs/BsAb) allowed	161
Dosing schedule	405 μg/Kg SC QW	800 μg/Kg SC Q2W	5-1600 μg/Kg SC	18-10000μg/Kg IV Q2-3W	1200-7200 μg/Kg IV Q2-3W	20-198 mg IV Q3W
Prior LoT	5	5	6	5	4	6
TCR/Penta-ref (%)	74/29	69/23	84/41	62/36	72/42	85/68
ORR/≥CR (%) ORR prior BCMA (%)	74.1/33.6	71.7/38.7	64.7/35.3 75% prior CAR-T 44.4% prior BsAbs	71/35 50	64/25 55	56.7/8.9
PFS DoR OS	7.5 79% at 12m (≥CR) 76% at 12m	14.2 90% at 12m (≥CR) 76% at 12m	5.1 63% at 12m (≥CR) 80% at 12m	NR	NR	NR 11.5 m NR
Toxicity		Infections overal	ported in 74-80% of pat I are reported in 46-73% ysgeusia is reported in 7	6 of patients and nearly		

Schinke et al- ASCO 2023; Chari et al. NEJM 2023; Carlo-Stella et al. ASH 2022; Trudel et a ASH2021; Harrison et al. IMS 2023

Skin/Nails toxicity reported in 56-70% of the patients

T-cell redirecting therapies related toxicities

- ACUTE: CRS, ICANS and HLH: class-toxicity events
- LONG LASTING/LATE-ONSET: Cytopenia, hypogammaglobulinemia, infections, SPM
- TARGET SPECIFIC



CRS, cytokine release syndrome; HLH, hemophagocytic lymphohistiocytosis; ICANS, immune effector-cell associated neurotoxicity syndrome

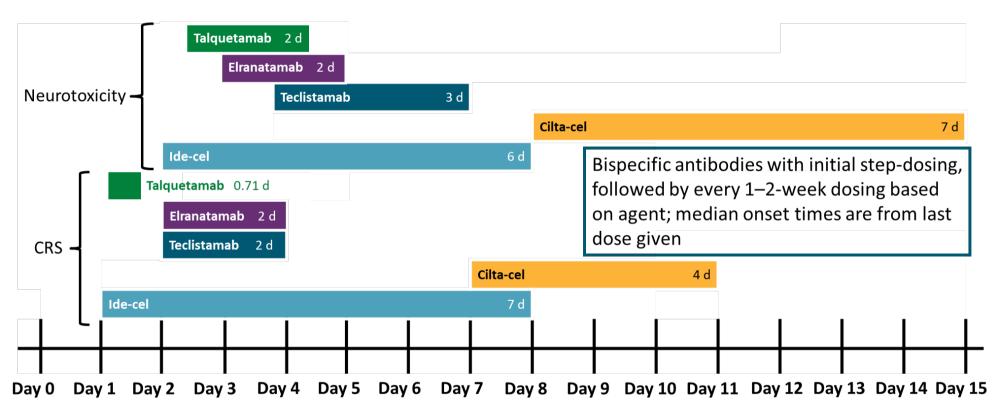
June C et al. Science 2018;359:1361-1365

BCMA-bispecific mAbs: summary of Safety profile

	Alnuctamab	Teclistamab	Elranatamab	Linvoseltamab	ABVV-3883
CRS (G 3-4) Median onset Duration Tocilizumab	50% (0%) 3 2 56%	71.5% (0.6%) 2(1-6) 2(1-9) 36.4%	56.3% (0%) 2 2 40%	44% (0%) 11 hours 15 hours 18%	60% (1%) 1(1-2) 1(1-8) NR
NTS ICANS Grade 3-4 Median onset Duration Treatment required	15% 3% (G1) 0 NR 3 and 5 days NR	14.5% 3% 0 3 days 7 days 8.5%	NR 4% 0 2.5 days 2 days 3%	NR 5.6% 1.2% NR NR NR	NR 3% 0.5% NR NR NR
Cytopenias Grade 3-4 Neutropenia Anemia Thrombopenia	32% 25% 9%	64% 37% 21%	48% 36% 22%	22% 23% 13%	26% 18% 11%
Infections Grade 3-4	34% 9%	76% 44%	66% 35%	54% 29%	NR 22 %

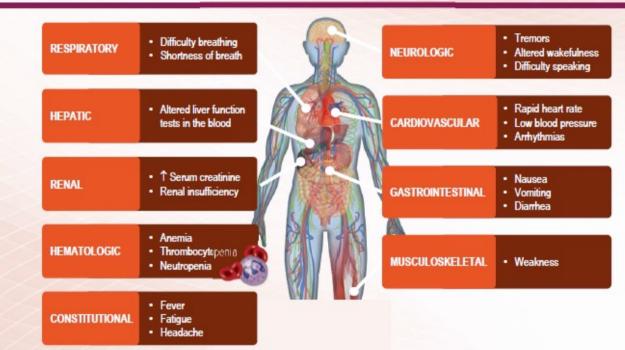
^{7 0 0 17}

CRS and Neurotoxicity: Median Time to Onset and Duration by CAR T-Cell or Bispecific Antibody Product



Ciltacabtagene autoleucel PI. Elranatamab PI. Idecabtagene vicleucel PI. Talquetamab PI. Teclistamab PI.

CRS Severity Is Typically Mild: Early Recognition and Treatment Is Key



Mitigation and monitoring for CRS

- Step-up dosing with hospitalization for monitoring
- Frequent vital signs
- · Rule out infection
- · Laboratory monitoring
- Early intervention with tocilizumab

ALP, alkaline phosphatase; CPK, creatine phosphokinase; CRP, C-reactive protein; CRS, cytokine release syndrome; LDH, lactate dehydrogenase; O₂, oxygen; TLS, tumor lysis syndrome.

Oluwole OO, Davila ML. J Leukoc Biol. 2016;100:1265. June CH, et al. Science. 2018;359:1361. Brudno JN, Kochenderfer JN. Blood. 2016;127(26):3321. Brudno JN, Kochenderfer JN. Blood Rev. 2019;34:45. Shimabukuro-Vornhagen, et al. J Immunother Cancer. 2018;6:56. Lee DW, et al. Biol Blood Marrow Transplant. 2019;25:625.

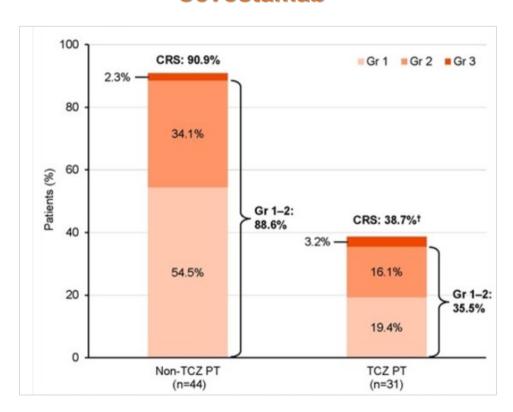


Prophylactic tocilizumab

Teclistamab

RESULTS • 23 patients with a median of 4 (range, 2-9) prior lines of therapy received prophylactic tocilizumab prior to teclistamab (median follow-up, 2.6 months [range, 0.1-7.0]) CRS incidence and severity with prophylactic tocilizumab Prophylactic tocilizumab reduced CRS incidence to 26.1% (6/23) (Figure 2) - Grade 1 (n=2), grade 2 (n=4); no grade ≥3 FIGURE 2: CRS incidence and severity 100 Grade 1 MajesTEC-1 population: 80 119 (72.1)4 - 1 (0.6) Grade 3 35 (21.2) 60 Prophylactic 40 tocilizumab: 6 (26.1)a 83 (50.3) 20 4 (17.4) 2 (8.7) N=165 N=23 N indicates number of patients. Grade indicates maximum toxicity grade of CRS. *As of April 28, 2023. · 3 patients had subsequent CRS events (Table 1). All CRS occurred during teclistamab step-up dosing or cycle 1, except 1 recurrent event in cycle 2

Cevostamab



Marin et al, ASH 2023

Mateos et al, EHA 2023

BCMA-Targeted Therapies Are Associated With an Increased Risk of Infections

A pooled analysis of 1,185 RRMM patients in 11 different clinical trials treated with single agent bispecific antibodies (with no prior use of different bispecifics)

Majority of patients (72%) treated with BCMA-targeted bispecific antibodies

Patients (%) All grades Grade 3/4 Adverse event Neutropenia 386 348 50 24.5 Infections CRS NR 59.6 Pneumonia NR 10 COVID-19 NR 114

Hypogammaglobulinemia occurred in 75.3% of patients with intravenous immunoglobulin used in 48%.

Death was reported in 110 patients of which 28 (25.5%) were reported to be secondary to infections.

Certain precautions should be used when using BsAbs to mitigate the risk and/or identify and treat infections promptly.

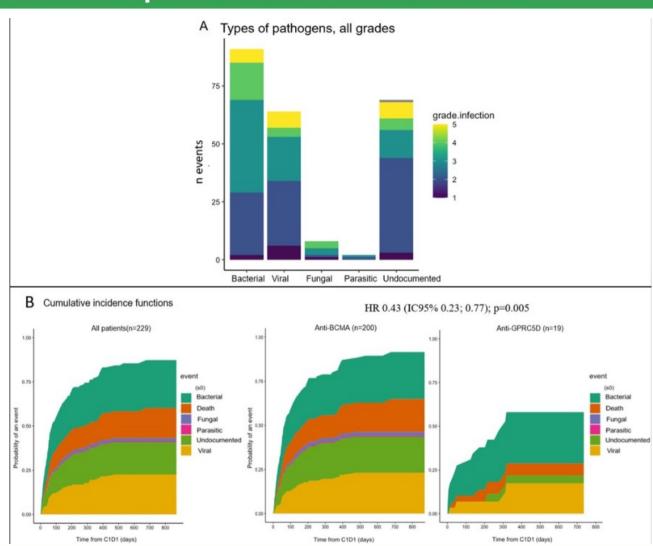
MM RF

NR, not reported.

Lancman G et al. *Blood Adv.* March 1, 2023 [Online ahead of print].

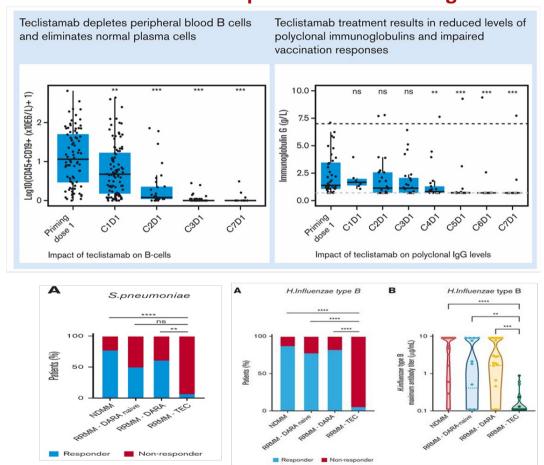
Cumulative Incidence and Characteristics of Infections Requiring Treatment, Delay in Treatment Administration or Hospitalisation in Patients with Relapsed or Refractory Multiple Myeloma Treated with Anti BCMA or Anti GPRC5D Bispecific Antibodies

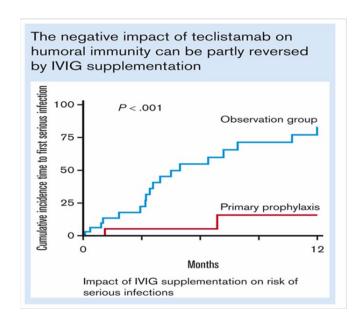
Cellerin E et al ASH 2023



Napoli, Hotel Paradiso • 29-30 aprile 2024

Teclistamab impairs humoral immunity in patients with heavily pretreated myeloma: importance of immunoglobulin supplementation

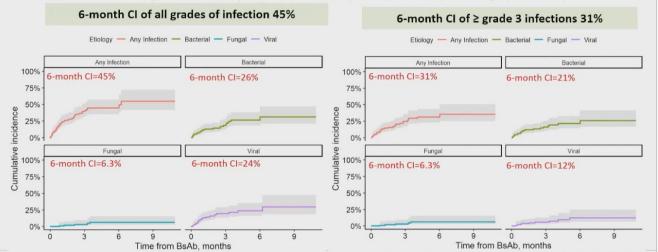




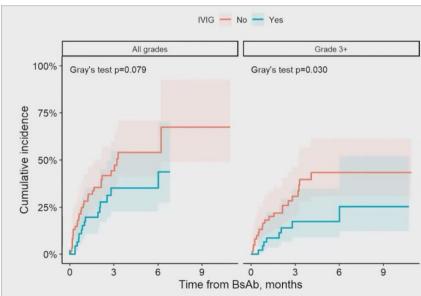
Kristine A Frerichs et al. Blood Adv 2024 Jan

Cumulative Incidence (CI) Of Infections Remains High

A total of 78 infections were diagnosed in 44 patients Median time to first infectious event was 60 (range 23-99) days from therapy Most common etiology was bacterial (48%; 36), followed by viral (n=34; 45%) and fungal (n=5; 6.7%)



Effects of IVIG prophylaxis on infections



Mohan et al, ASH 2023

Infection Prophylaxis and Vaccinations

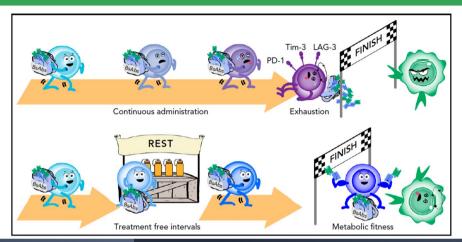
Toxicity	Ide-cel	Cilta-cel	Teclistamab	Elranatamab	Talquetamab
Infections (bacterial, viral, fungal), %	69	58	80	70	62
Hypogammaglobulinemia, %	21	12	21	13	NR
Grade ≥3 neutropenia, %	89	95	64	49	35

- Complete outstanding vaccinations at least 2 wk prior to starting CAR T-cell therapies or bispecific antibodies (eg, influenza, pneumococcal, COVID-19)
- Delay postinfusion vaccinations for at least 3-6 mo (1 yr for live)
- Consider checking antibody titers

Antibacterial Prophylaxis	Antiviral Prophylaxis	Antifungal Prophylaxis
Recommend for patients with high risk of infection	HSV/VZV prophylaxis in all patients	 PJP prophylaxis recommended Other antifungal prophylaxis recommended for patients with high risk of fungal infection

Ciltacabtagene autoleucel Pl. Idecabtagene vicleucel Pl. Teclistamab Pl. Elranatamab Pl. Talquetamab Pl. Munshi. NEJM. 2021;384:705. Berdeja. Lancet. 2021;398:10297. Hill. Blood. 2020;136:925. Lesokhin. Nat Med. 2023; 29:2259. Ludwig. Lancet Oncol. 2023;24:e255. Moreau. NEJM. 2022;387:495. Raje. Blood Ca J. 2023;13:116.

Bispecifics need a mindful pause



Efficacy Can Be Maintained With Less Intensive Dosing

Management of Infections With BCMA Bispecific Abs Faculty Experience (cont)

majesTEC-1:

Efficacy maintained in patients who switched to biweekly dosing: 42/63 patients who switched to reduced dosing maintained response^[1]

Less intensive dosing

Using IVIG

MagnetisMM-3:

Efficacy maintained in patients who switched to biweekly dosing: 80.6% of patients maintained or improved their response following dose switch^[2]

Prophylactic antimycotics in patients who are neutropenic

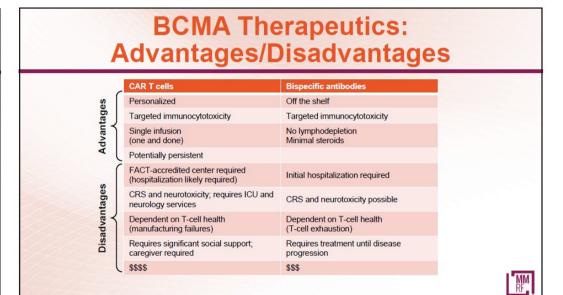
1. Usmani SZ, et al. J Clin Oncol. 2023;41(Suppl 16):8034; 2. Mohty M, et al. J Clin Oncol. 2023;41(Suppl 16):8039.

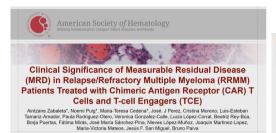
Open questions:

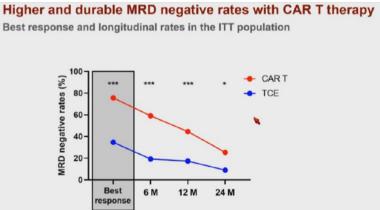
- What are the "ideal" patient?
- What are the mechanisms of resistance?
- What is the optimal sequencing?
- What is the optimal timing?
- What are the optimal combinations?

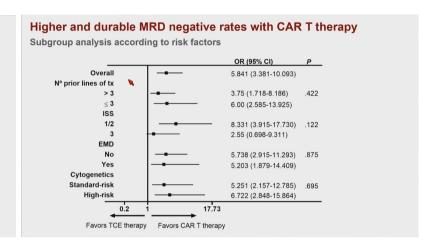
Similarities and Differences Between CAR T-Cell Therapy and Bispecific Antibodies

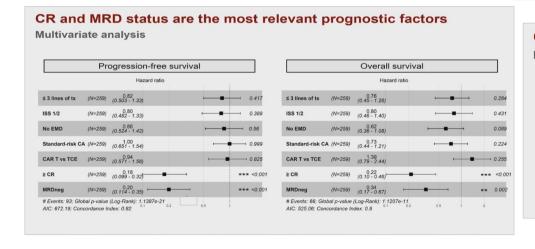
Abecma, Carvykti ++++ One-and-done cademic medical centers CRS and neurotoxicity	Tecvayli +++ IV or SC, weekly to every 3 weeks until progression Academic medical centers CRS and neurotoxicity
One-and-done	IV or SC, weekly to every 3 weeks until progression Academic medical centers
cademic medical centers	weeks until progression Academic medical centers
CRS and neurotoxicity	CRS and neurotoxicity
+++	++
++	+
ait time for manufacturing	Off-the-shelf, close monitoring for CRS and neurotoxicity

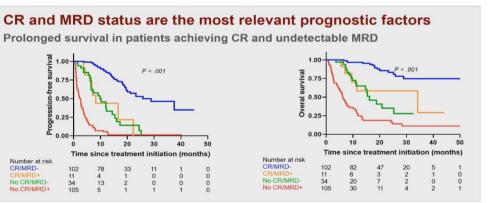








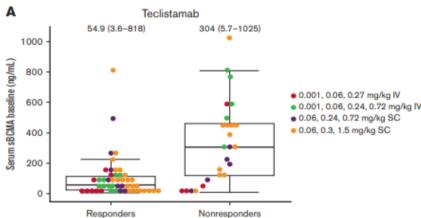


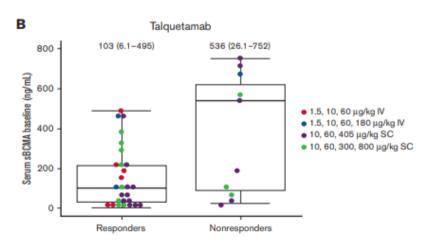


Clinical characteristics associated with primary resistance to BsAbs

- ~ 30% of myeloma patients do not respond to BsAbs:
- High disease burden:
 - →Increased bone marrow plasma cells
 - →ISS stage III
- Extramedullary disease (EMD)
- High risk cytogenetics?
- Prior treatment with bispecific antibodies?

Serum BCMA





Girgis S et al, Blood Adv 2023

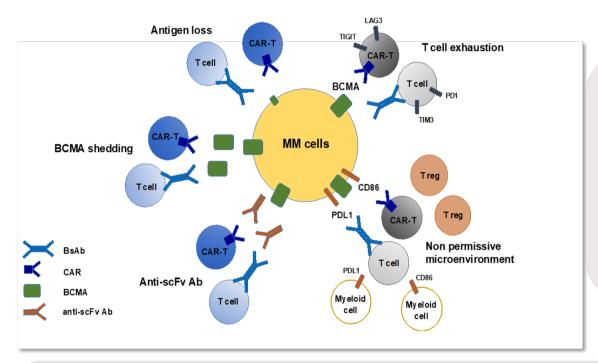
How To Select Patients for CAR T-Cell Therapy vs Bispecific Abs Faculty Experience

CAR T-cell therapy is preferred if

The patient does not have aggressive disease and can wait for the manufacturing time

A good bridging therapy is available

Understanding mechanism of resistance



- Target dependent
 - Antigen loss for BCMA or GPRC5D
 - BCMA shedding
 - Anti-scFv Ab
- T cell dependent
 - T cell exhaustion
 - Non-permissive microenvironment

- BCMA seems to remain at the moment of the relapse and it has been reported its loss in 4%
- GPRC5D seems to be not so stable and mutations can occur more frequently
- T cell fitness is relevant for the T cell redirecting therapy

Immune status and selection of patients for immunotherapy in myeloma: a Proposal

Immune-Permissive Immune-Excluded Immune-Suppressed Immune-Depleted

Immune-Resistant

Tumor cells

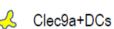


Ag-loss/mutant Tumor











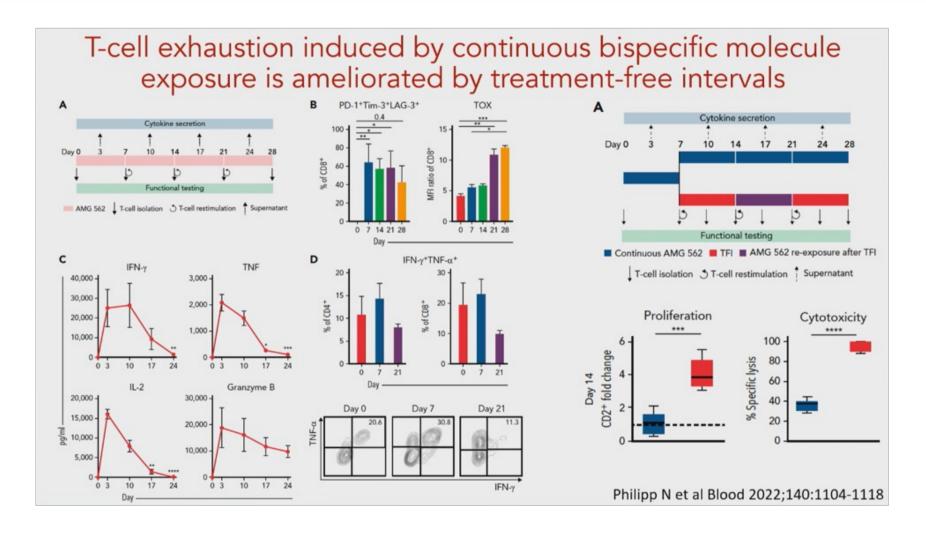






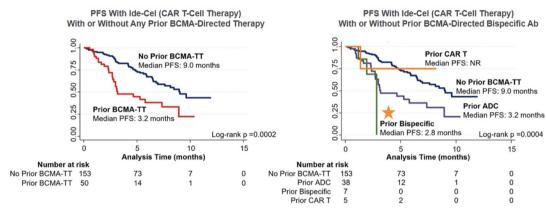


Dhodapkar M et al, Blood Adv 2024



Sequencing Bispecific Abs and CAR T-Cell Therapies

Myeloma CAR T-Cell Consortium data suggest poorest CAR T cell outcome with prior BCMA bispecific Abs



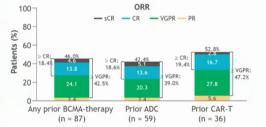
ADC, Ab-drug conjugate; BCMA-TT, BCMA targeted therapy.

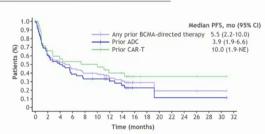
Sequencing and duration of therapy

- Can we treat sequentially with BsAb?
- How do we sequence CAR Ts and BsAbs?
- How long to treat? Continuous vs treatment free intervals?

Sequencing: BCMA-BsAbs after BCMA targeted therapies (pooled analysis of MagnetisMM 1, 2, 3 and 9 studies)

	Any prior BCMA therapy N = 87	Any prior ADC n = 59	Any prior CAR T cell therapy n = 36
Prior BCMA-targeted therapy, n (%)			
ADC	59 (67.8)	59 (100)	8 (22.2)
CAR T cell therapy	36 (41.4)	8 (13.6)	36 (100)
ADC and CAR T cell therapy	8 (9.2)	8 (13.6)	8 (22.2)
Refractory to prior BCMA therapy, n (%)	54 (62.1)	48 (81.4)	13 (36.1)





Elranatamab is an investigational agent and has not been approved by any regulatory agency.

IMWG, International Myeloma Working Group; NE, not evaluable.

Nooka AK, et al, Presented at ASCO 2023, abstract 8039. NCT03269136, NCT04798586, NCT04649359, NCT05014412 Available from: https://clinicaltrials.gov, Accessed March 2023

EHA 2023 - Harnessing the Immune System: New Emerging Data in Multiple Myeloma



Sequencing BsAb post CAR T (CAR → BsAb)

 Teclistamab (MajesTEC-1, cohort C, previously exposed to BCMA-targeted agents): ORR 52.5% and mDOR not reached at median f/up 12 months



- Elranatamab (Magnestis-MM1 trial): ORR 7/10 (70%) patients previously exposed to anti-BCMA ADC or CART treatments
- Talquetamab with daratumumab (TRIMM-2 trial): ORR 18/25 (72%) response in patients with prior BCMA-targeted treatment (includes prior BCMA BsAb, CART and ADC)
- Cevostamab: ORRs 33.3-50% (based on dose level) post anti-BCMA treatment.

Will Future Combinations With Bispecifics Lead to Overlapping Toxicities?

Combinations With Other MM Therapies for Synergy

Study	Combination	
	Talquetamab + Daratumumab	
NOTO440940E	Teclistamab + Daratumumab	
NCT04108195	Talquetamab + Dara/Pom	
	Teclistamab + Dara/Pom	
MagnetisMM-4	Elranatamab + Len/Dex	
MagnetisMM-5	Elranatamab + Dara vs DPd	
	Linvoseltamab + Daratumumab	
inkar MMO	Linvoseltamab + Carfilzomib	
Linker-MM2	Linvoseltamab + Lenalidomide	
	Linvoseltamab + Bortezomib	

Bispecific Combinations to Reduce Antigen Loss Related to Relapse

Study	Combination
	Talquetamab + Teclistamab
NCT04586426	Talquetamab + Teclistamab + Daratumumab

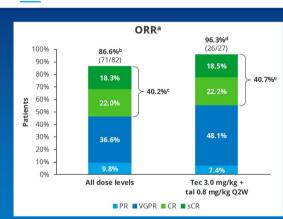
Combinations to Enhance Target Expression

Study	Combination
NCT04722146	Talquetamab + Nirogacestat
MagnetisMM-4	Elranatamab + Nirogacestat

Dara, daratumumab; Dex, dexamethasone; DPd, daratumumab/pomalidomide/dexamethasone; Len, lenalidomide; MM, multiple myeloma; Pom, pomalidomide.

RedirecTT-1: Efficacy

TEC + TAL



- ORR was high (86.6%) across all dose levels and 96.3% at the RP2R
- At data cut-off, 61% (57/93) of patients remained on treatment

	All dose levels (N=93)	Tec 3.0 mg/kg + tal 0.8 mg/kg Q2W (n=34)
Median follow-up, months (range)	13.4 (0.3–25.6)	8.1 (0.7–15.0)
Median DOR, ^f months (95% CI)	NE (NE-NE)	NE (NE-NE)
Median time to first response, ^f months (range)	1.97 (0-7.7)	1.48 (0-4.0)
Median time to best response, ^f months (range)	3.98 (1.1–15.7)	3.22 (1.4–10.7)
Median PFS, ^g months (95% CI)	20.9 (13.0-NE)	NE (9.9–NE)
9-month PFS rate ^g (95% CI)	70.1 (58.0–79.4)	77.1 (50.8–90.5)

Data cut off date March 16, 2023

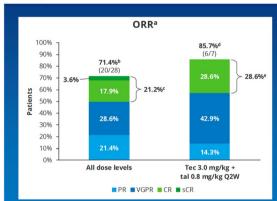
Regions was assessed by investigators, based on international Myeloma Working Group criteria, response-evaluable natients have received 2.1 study treatment and have 2.1 postbaseline response-evaluation by investigator, 1956 CI, 273-23 1%, 95% CI, 236-51.7%, 95% CI, 236-51.7%, 95% CI, 236-4-51.2%, findudes patients with confirmed responses 4MI treated patients CR, complete response, POR, duration of response, NE, not estimable, ORR, overall response rate, PP2, progression-free survival, PR, partiallesponses (27%, every other week), RP2R, recommended phase 2 regiment SCR, stringent complete response, VGR, very good

10

Cohen et al. ASCO 2023

TEAE® (≥25% overall), n (%)		e levels =93)	Tec 3.0 mg/kg + tal 0.8 mg/kg 02W (n=34)		
	Any Grade	Grade 3/4	Any Grade	Grade 3/4	
			Blumbs	anstelogia TEAEs	
CRS	71 (76.3)	3 (3.2)	25 (73.5)	0	
Dysgeusia	57 (61.3)	-	16 (47.1)	-	
Pyrexia	47 (50.5)	2 (2.2)	13 (38.2)	1 (2.9)	
Skin toxicity	50 (53.8)	0	18 (52.9)	0	
Nail disorders	43 (46.2)	0	14 (41.2)	0	
Diarrhea	38 (40.9)	2 (2.2)	14 (41.2)	1 (2.9)	
Cough	36 (38.7)	0	8 (23.5)	0	
Dry mouth	35 (37.6)	0	II (32.4)	0	
Rash	32 (34.4)	1 (1.1)	10 (29.4)	1 (2.9)	
COVID-19	31 (33.3)	9 (9.7)	14 (41.2)	1 (2.9)	
Pneumonia	25 (26.9)	10 (10.8)	4 (11.8)	2 (5.9)	
Fatigue	24 (25.8)	7 (7.5)	6 (17.6)	2 (5.9)	

RedirecTT-1: High ORR in Extramedullary Disease TEC + TAL



- All were soft tissue plasmacytomas
- At the RP2R (n=11):
- Median follow-up, 7.2 mo (range 0.7–14.2)
- 85.7% (6/7 evaluable) ORR
- 28.6% (2/7 evaluable) ≥CR

	All dose levels (N=35)	Tec 3.0 mg/kg + tal 0.8 mg/kg Q2W (N=11)
Median DOR, ^f months (95% CI)	12.9 (4.17–NE)	NE (4.17-NE)
Median PFS,8 months (95% CI)	6.1 (2.5-9.9)	9.9 (2.4-NE)

cut-off date. March 16, 2003.
none was assessed by investigators, based on international Myeloma Working Group criteria, response-evaluable patients have received ≥1 study treatment and have ≥1 postbaseline responsesignate 1965 Ct. 51.3–68.6%, 696. Ct. 32.4–10%, 696. Ct. 42.1–99.6%, 195%, Ct. 32.7–21.0%, includes patients with confirmed responses, self-largeted patients
are proposed proposed to 2009. duration of responses. No. To existenable CoRS, overall response rate, PSP, compression free synchroly PR, partial response 2009. very orther week: PSP, recommended to

Cohen et al. ASCO

Conen et al. ASCO 20

- AE profile was consistent with both monotherapy profiles
- Rates of grade 3-4 non-hematologic TEAEs were low overall, including at the RP2R

The future: Bispecific Combinations

			b + Dara + Len ¹ (Cohort E, N=32)	Talquetamab + Dara ² TRIMM-2 (N=65)	Talquetama MonumenTA		Teclistamab + Talquetamab ⁴ RedirecTT-1 (N=93)
Attribute	Key Data Element	Teclistamab 0.72 mg/kg, SC n=13	Teclistamab 1.5 mg/kg, SC n=19	Talquetamab 0.8 mg/kg, Q2W n=51	Talquetamab 0.4 mg/kg, QW n=16	Talquetamab 0.8 mg/kg, Q2W n=19	Teclistamab 3.0 mg/kg + Talquetamab 0.8 mg/kg, Q2W (n=34)
	High-Risk, %	25	46.7	21.2	31.3	21.1	33.3
0	Median prior LoT, n (range)	2 (1-3)	2 (1-3)	5 (2-14)	3 (2-12)	3 (2-5)	4 (2-10)
	Prior PI / IMiD / Anti-CD38, %	100/100/38.5	100/100/26.3	-/-/90.2	-/-/75.0	-/-/73.7	-/-/-
l lik	Extramedullary Disease, %	7.7	5.3	25.5	12.5	15.8	32.4
W	Prior BCMA, %	-	-	52.9	25.1	0	-
Characteristics	Prior CART / ADC / Bispecific, %	-	-	17.6/21.6/19.6	18.8/-/6.3	0/-/0	2.94/11.8/0
	Median Follow-Up, mo (range)	8.4 (1.1-12.9)	15.0 (1.0-23.3)	15.0 (1.2-19.0)	11.1 (1.2-14.8)	8.1 (0.7-15.0)
B	ORR,%	100	81	84.0 [42/50] 82.2 [37/45] (prior anti-CD38) 88.9 [8/9] (prior CAR T) 70.0 [7/10] (prior bispecific)	93.8 (all patients) 100 [3/3] (prior CAR T) 50.0 [1/2] (EMD) 80.0 [4/5] (HR cytogenetics)	84.2 (all patients) No prior CAR T 67.0 [2/3] (EMD) 75.0 [3/4] (HR cytogenetics)	96.3
Efficacy	≥VGPR,%	92	Not mature	74.0	87.5	68.4	88.8
	mDoR, mo	NR	NR	20.3	NR (12.0-NR)	NR (7.4-NR)	NE (NE-NE)
	CRS, all gr (gr ≥ 3), %	81.3(0)		80.4(0)	74.3(2.9)		73.5(0)
	Median onset, d (range)	2	(1-8)	2 (1-4)	-		2 (1-4)
	Median duration, d (range)	2	(1-22)a	2 (1-9)	-		2 (1-4)
	ICANS NT, all gr (gr ≥ 3), %	Not	reported	_b	9.0	(0)	3(0)
	Non-ICANS NT, all gr (gr ≥ 3), %	-		-	-		-
	Weight decreased, all gr (gr ≥ 3), %		-	27.5(0)	-		-
	Infections, all gr (gr ≥ 3), %	75	(28.1)	72.5 (25.5)	80.0(22.9)	79.4(38.2)
Safety	Neutropenia, all gr (gr ≥ 3), %	84.	4(78.1)	39.2(27.5)	62.9(54.3)	55.9(44.1)
	Dysgeusia, all gr (gr ≥ 3), %		-	_c	85.7	7(0)	47.1e(-)
	Nail and skin disorders, all gr (gr ≥ 3), %		-	Nail: 68.6 (2.0) Skin: 84.3 (7.8)	Nail: 68 Skin: 74		Nail: 41.2 (0) Skin: 52.9 (0)

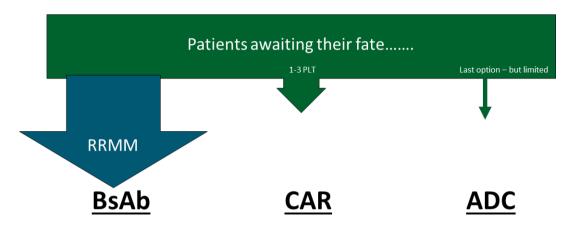
^aThe median duration range was confounded by ongoing infection. ^bICANS in 4.6% of patients (QW and Q2W), ^c76.9% had dysgeusia (QW and Q2W), ^dIncludes ide-cel. ^eIncludes ageusia, dysgeusia, hypogeusia, and taste disorder. NE, not estimable. NR, not reached.

1. Searle et al. ASH 2022. Abstract 160. 2. Dholaria et al. ASCO 2023. Abstract 8003. 3. Matous et al. ASH 2023. Abstract 1014. 4. Cohen et al. ASCO 2023. Abstract 8002.

Ongoing phase 3 studies with anti-BCMA bispecific antibodies as treatment of RRMM at early relapse or NDMM

Study	Regimen	Condition	
MajesTEC-3 NCT05083169	Tec-Dara vs DaraPd or DaraVd (on held)	RRMM 1-3 prior LOT (including len and PI)	
MajesTEC-9 NCT05572515	Tec vs PVd or Kd (open for enrollment)	RRMM 1-3 prior LOT (including len and antiCD38 mAb)	
MagnetisMM-5 NCT05020236	Elranatamab vs Elra-Dara vs DaraPd (fully enrolled)	RRMM ≥ 1 prior LOT (including len and PI)	
MajesTEC-7 NCT05552222	Tec-Dara-Len vs DaraRd (open) Tal-Dara-Len vs DaraRd	NDMM ineligible or not intended for ASCT	
MagnetisMM-6 NCT05623020	Elra-Dara-Len vs DaraRd (open)	NDMM not candidates for ASCT	
MajesTEC-4 NCT05243797	Tec-Len vs Len vs Tec (safety-run-in analysis)	NDMM maintenance following ASCT	
MagnetisMM-7 NCT05317416	Elranatamab vs Len (open)	NDMM maintenance following ASCT	

Real World in 2023 – Bispecifics being used most



- Availability of BsAb and financial concerns will drive practice patterns
- Real-world experience will drive success
- Line of therapy will also guide choice => favor CAR 1-2 then BsAb maint/2-4

How to choose among immunotherapies?

Current (with current indications) patient' profile for CART/Bispecifics/ADC

CARTS

- · Young patient or fit elderly
- · Search for sustained MRD negativity and treatment-free interval

patient

- · Patient without rapidly progressing disease/soft tissue clinically relevant involvement
- eGFR > 30-40 ml/min...but this threshold will soon go down with RWE

Bispecifics

- Search for high quality response/response duration
- Enaugh fitness to follow anti-infection prophylaxis/treatment in particular when BCMA is the target
- Non recurrent pulmonary infections/underlying lung diseases for BCMA as a target
- eGFR ≥ 30 ml/min....but this might change with RWE
- No issues with rapidly progressing disease
- CNS involvement?

Unfit/frail patients

Patient at high risk of infection

ADC

- After CARTs/bispecifics?
- eGFR < 30 ml/min/dialysis
- DIFFERENT PATIENT' PROFILE FOR COMBOS, INCLUDING YOUNG/FIT PATIENTS AIMING FOR DEEP AND DURABLE RESPONSES

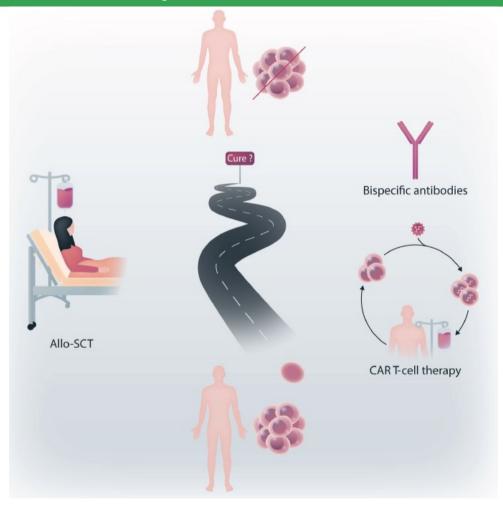
Access/reimbursement to most of these immunotherapies remains an issue in many european countries!

Zamagni E, personal communication

In search for cure of multiple myeloma

Ralph Wäsch and Monika Engelhardt

Haematologica | 109 May 2024



The long way in the search for myeloma cure. The current promising alternatives to allogeneic stem cell transplantation (alloSCT) are chimeric antigen receptor (CAR) T cells and bispecific antibodies, or a combination of these options.

Napoli, Hotel Paradiso • 29–30 aprile 2024

Conclusions: MM can be CURED? CARs and BsAbs) are the way !!! Future treatment paradigms......

