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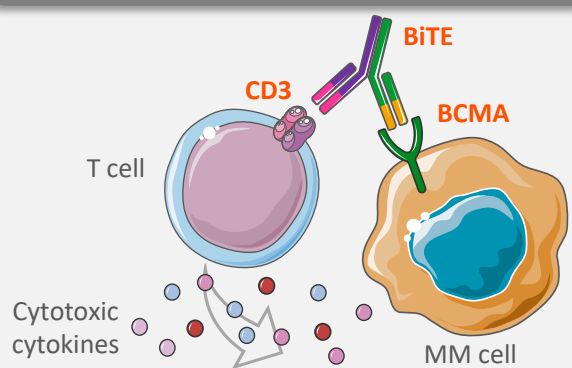
Targeting BCMA in multiple myeloma: Insights from COMy and EHA 2024

Practice aid for the role of BCMA-targeting agents in relapsed/refractory multiple myeloma

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Role of BCMA-targeted agents in the management of relapsed or refractory multiple myeloma

Bispecific T-cell engager antibodies¹



Elranatamab^{2,3}

Warning:^{2,3} CRS and neurotoxicity incl. ICANS



≥3 prior lines (incl. PI, IMiD, anti-CD38 mAb) and disease progression on last therapy²

Subject to additional monitoring²

≥4 prior lines (incl. PI, IMiD, anti-CD38 mAb)³

Only available through REMS³

Teclistamab^{4,5}

Warning:^{4,5} CRS and neurotoxicity incl. ICANS



≥3 prior lines (incl. PI, IMiD, anti-CD38 mAb) and disease progression on last therapy⁴

Subject to additional monitoring⁴

≥4 prior lines (incl. PI, IMiD, anti-CD38 mAb)⁵

Only available through REMS⁵

Cilta-cel^{6,7}

Warning:^{6,7} CRS, neurotoxicities, HLH/MAS, prolonged and recurrent cytopenia, SHMs



≥1 prior line (incl. PI, IMiD), lenalidomide refractory, disease progression on last therapy⁶

Subject to additional monitoring⁶

≥1 prior line (incl. PI, IMiD) and refractory to lenalidomide⁷

Only available through REMS⁷

Ide-cel^{8,9}

Warning:^{8,9} CRS, neurotoxicities, HLH/MAS, prolonged and recurrent cytopenia, SHMs



≥2 prior lines (incl. PI, IMiD, anti-CD38 mAb) and disease progression on last therapy⁸

Subject to additional monitoring⁸

≥2 prior lines (incl. PI, IMiD, anti-CD38 mAb)⁹

Only available through REMS⁹

Belantamab mafodotin



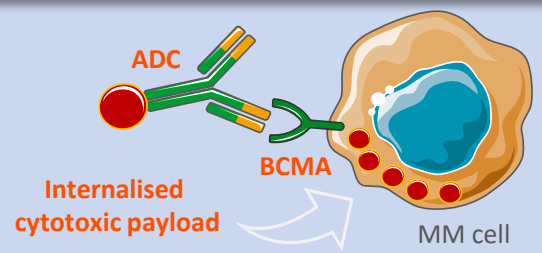
WITHDRAWN^{10,11}



July 2024:

The EMA accepted an MAA seeking approval of belantamab mafodotin in combination with bortezomib and dexamethasone (BVd) or with pomalidomide and dexamethasone (BPd) for the treatment of patients with RRMM¹²

Antibody–drug conjugates¹



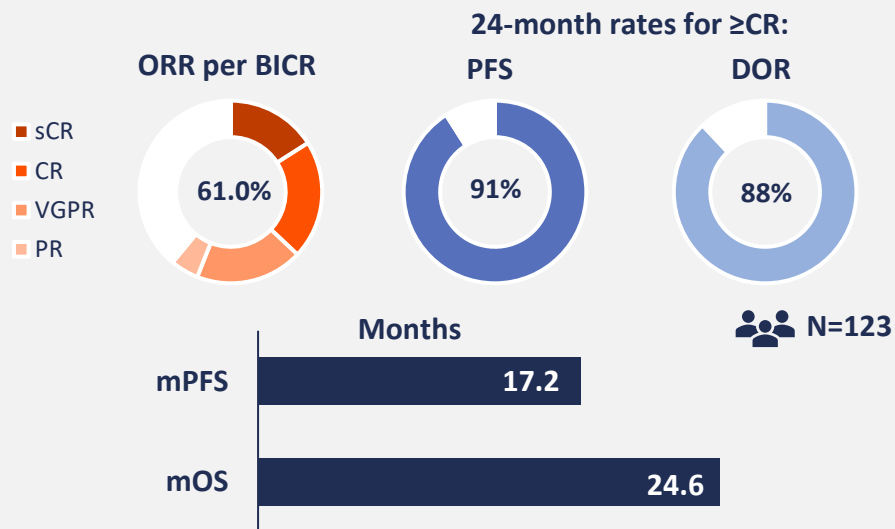
Regulatory body



Summary of latest data for approved BCMA-targeted antibodies in multiple myeloma*

Elranatamab: MagnetisMM-3¹³

Elranatamab continued to demonstrate deep and durable responses in heavily pretreated BCMA-naïve patients with RRMM refractory to prior PI, IMiD and anti-CD38 therapies



No new safety signals observed with extended follow-up

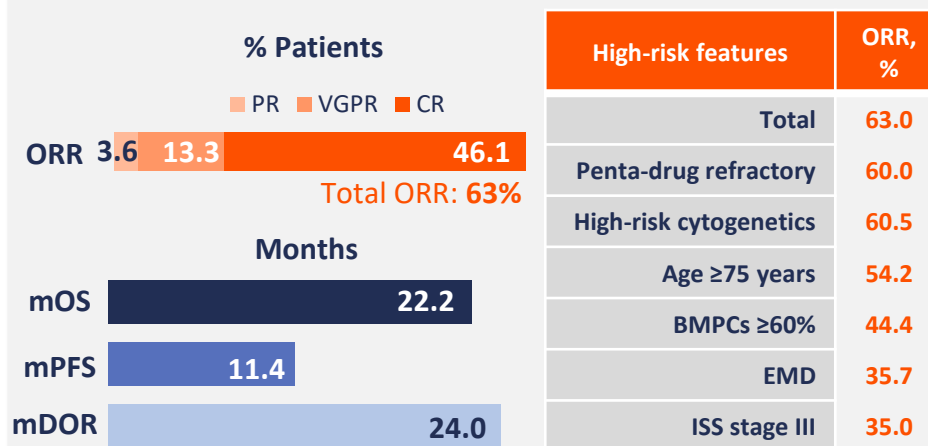
With an additional 6 months' follow-up:

- **4 new deaths** had occurred
- **5 patients** had **secondary primary malignancies**
All were cutaneous squamous cell carcinoma
All received prior lenalidomide and a stem cell transplant
No haematological SPMs were observed

Teclistamab: MajesTEC-1¹⁴

Teclistamab continued to demonstrate deep and durable responses, even with less frequent (Q2W) dosing, and can provide clinical benefit to patients with some high-risk features

- 30.4-month follow-up
- N=165 (weekly); n=65 (transitioned to Q2W)
 - Patients still on treatment: n=38 (n=37 on Q2W)



No new safety signals and a manageable safety profile

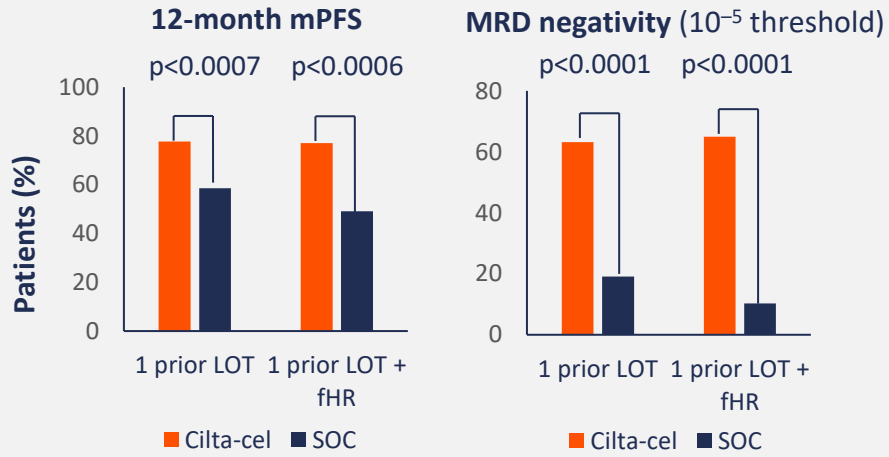
- **78.8%** of patients (grade 3/4, 55.2%)
- No new grade 5 COVID-19 TEAEs
- Onset of new grade ≥3 infections declined over time:
Transitioning to Q2W dose and increased use of Ig replacement may contribute to this trend
- **CRS and ICANS**: **CRS: 72.1%** of patients (grade 3/4, 0.6%)
- **No changes** at 30.4-month follow-up

Summary of latest data for approved BCMA-targeted CAR T-cell therapy in multiple myeloma*

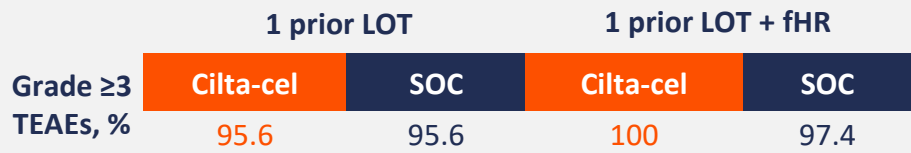
Cilta-cel: CARTITUDE-4¹⁵

A single cilta-cel infusion improved PFS vs SOC in lenalidomide-refractory patients with MM, regardless of functional risk strata, after 1 prior LOT

- 1 prior LOT: **Cilta-cel n=68; SOC n=68**
- 1 prior LOT+ fHR: **Cilta-cel n=40; SOC n=39**



AEs were generally similar between 1 prior LOT vs 1 prior LOT and fHR cohorts



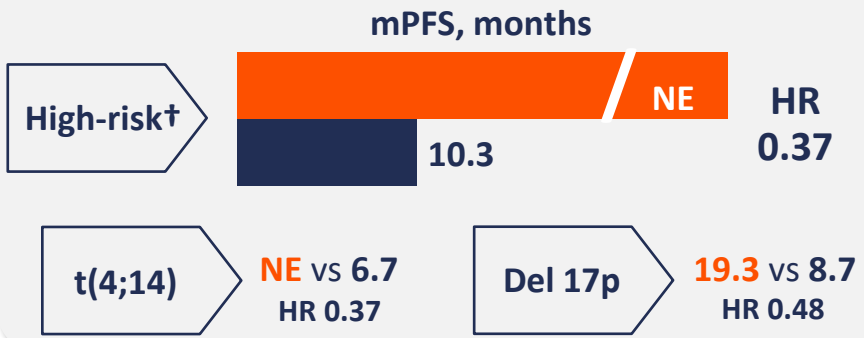
- No grade 3/4 ICANS, MNT or PN in patients with 1 prior LOT and fHR
- Grade 3/4 CRS only in 1 patient; CNP in 2 patients with 1 prior LOT

Cilta-cel: CARTITUDE-4¹⁶

Cilta-cel demonstrated favourable efficacy outcomes vs SOC in patients with standard and high-risk cytogenetics†

	Median PFS, months (range)	ORR, %
Cilta-cel standard risk n=69	NE (NE-NE)	85.5
Cilta-cel high-risk n=123	NE (18.4-NE)	85.4
SOC standard risk n=70	20.6 (11.2-NE)	71.4
SOC high-risk n=132	10.3 (7.6-12.5)	65.9

Cilta-cel lessens the impact of high-risk cytogenetics on PFS, and improved PFS compared with SOC



*Not all congress data are included in this practice aid. Data included here were selected by faculty for discussion within the accompanying educational activity.

†High-risk cytogenetic abnormalities, including t(4;14), del(17p), t(14;16), and gain/amp(1q).

New horizons for BCMA-targeting agents in multiple myeloma

Belantamab mafodotin: DREAMM-7,¹⁷ -8¹⁸

Favourable survival outcomes and treatment response with belantamab mafodotin-based regimens vs comparator arms (pomalidomide or daratumumab); OS follow-up is ongoing

 ≥1 prior LOT; PD on/after latest therapy

mPFS (months)



Safety profile broadly consistent with known profiles of individual regimen components

Ocular AEs (any grade), %	DREAMM-7		DREAMM-8	
	BVd n=242	DVd n=246	BPd n=150	PVd n=145
	79	29	89	30

 Ocular AEs led to low (9%) rate of treatment discontinuations in both the DREAMM-7 and DREAMM-8 trials

Management of ocular AEs

- Dose holds
- Dose reductions
- Dose delays/interruptions
- ↓ dose frequency

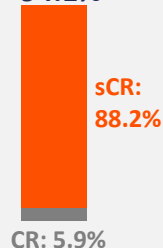
Cilta-cel: CARTITUDE-2¹⁹

Cilta-cel ± lenalidomide maintenance is promising in newly diagnosed patients with poor response to frontline ASCT, especially given the historically poorer clinical outcomes



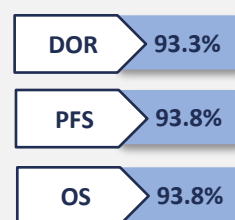
N=17

ORR:
94.1%



sCR:
88.2%

18-month rates for:



AEs were consistent with known safety profile of cilta-cel

- No cases of MNT/parkinsonism were observed
- 1 patient with ICANS, which resolved
- 6 patients with other neurotoxicities (mostly grade 1/2)
- No grade 3/4 CRS (82.4% grade 1/2)

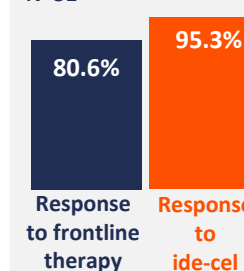
Ide-cel: KarMMa-2²⁰

Ide-cel showed a favourable risk-benefit profile in in clinical high-risk early relapse MM without frontline ASCT

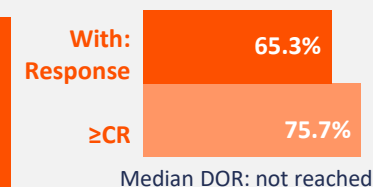


N=31

ORR



DOR rate at 24 months



Ide-cel showed a favourable risk-benefit profile; no grade 3/4 CRS or iINTs occurred

Grade 1/2 CRS occurred in 83.9% of patients

- 94.4% managed with tocilizumab

Grade 1/2 iINT occurred in 9.7% of patients and managed with:

- Tocilizumab (33.3%)
- Steroids (33.3%)
- Anakinra (33.3%)



Grade 3/4 infection and infestations occurred in 19.4% of patients

Emerging agents



Bispecific antibodies

ABBV-383²¹

Linvoseltamab²²



CAR Ts

Anitocabtagene autoleucel (anito-cel)²³

Equcabtagene autoleucel (eque-cel)²⁴

Abbreviations and references

Abbreviations

ADC, antibody–drug conjugate; AE, adverse event; ASCT, autologous stem cell transplant; B, belantamab mafodotin; BCMA, B cell maturation antigen; BICR, blinded independent central review; BiTE, bispecific T cell engager; BMPC, bone marrow plasma cell; CAR, chimeric antigen receptor; cilta-cel, ciltacabtagene autoleucl; CNP, cranial nerve palsy; CR, complete response; CRS, cytokine release syndrome; d, dexamethasone; DOR, duration of response; EMD, extramedullary disease; fHR, functionally high risk; HLH/MAS, haemophagocytic lymphohistiocytosis/macrophage activation syndrome; HR, hazard ratio; ICANS, immune effector cell-associated neurotoxicity syndrome; ide-cel, idcabtagene vicleucl; iINT, investigator-identified neurotoxicity; IMiD, immunomodulatory drug; ISS, international staging system; ITT, intention-to-treat; LOT, line of therapy; m, median; MAA, marketing authorization application; MM, multiple myeloma; MNT, movement and neurocognitive TEAE; MRD, minimal residual diseases; NE, not evaluable; NR, not reached; ORR, overall response rate; OS, overall survival; P, pomalidomide; PD, progressive disease; PFS, progression-free survival; PI, proteasome inhibitor; PN, peripheral neuropathy; PR, partial response; Q2W, every 2 weeks; REMS, Risk Evaluation and Mitigation Strategies; RRMM, relapsed/refractory MM; scFv, single-chain variable fragment; sCR, stringent CR; SHM, secondary haematological malignancy; SOC, standard of care; SPM, second primary malignancies; TEAE, treatment-emergent AE; V, bortezomib; VGPR, very good partial response.

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*EMA Summary of product characteristics available at: www.ema.europa.eu/en/medicines.

†FDA prescribing information available at: www.accessdata.fda.gov/scripts/cder/daf/index.cfm.

All URLs accessed 10 September 2024.

‡EHA 2024 was held in Madrid, Spain, 13-16 June 2024.

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