

A large, stylized orange grid pattern, resembling a globe or a wireframe sphere, dominates the upper half of the slide. It is composed of thick, hand-drawn style lines that intersect to form a grid of squares and rectangles.

## **How should we interpret the latest clinical evidence for approved BCMA-directed therapeutic approaches to managing RRMM?**

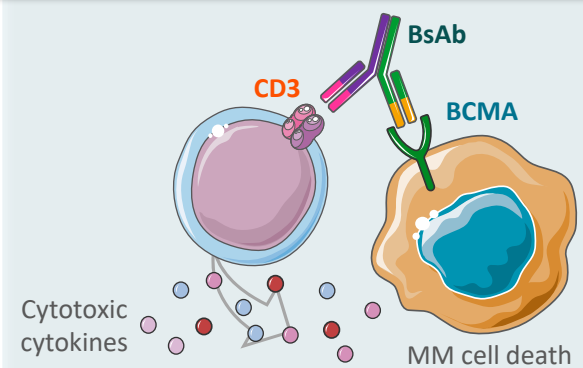
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**Practice aid for BCMA-targeting agents in RRMM**

For more information, visit: <https://touchhaematology.com/>

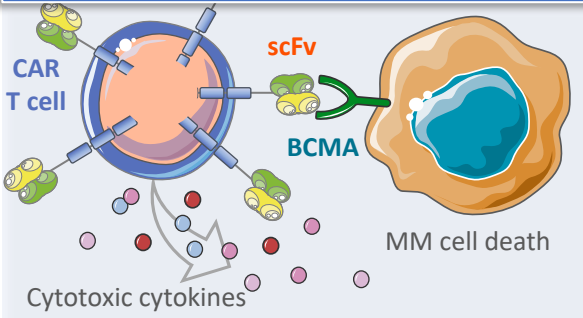
Overview of BCMA-targeting agents in the management of RRMM

Bispecific T-cell engager antibodies<sup>1</sup>



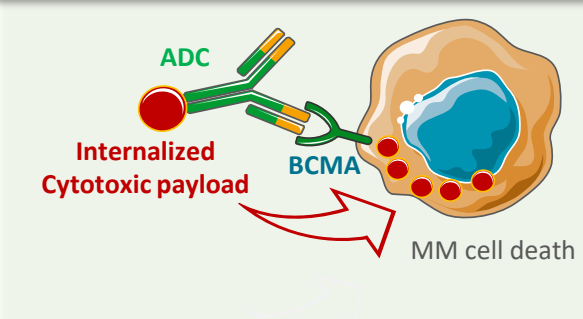
	Elranatamab <sup>2</sup>	Teclistamab <sup>3</sup>	Linvoseltamab <sup>4</sup>
Approved (EMA)	2024	2022	2025
Indication	≥3 prior LoT (incl. PI, IMiD, anti-CD38 mAb) and PD on last therapy		
Dosing	SUD x 2; week 2–24, QW; Q2W thereafter		SUD x 2; week 4–13, QW; Q2W to week 24; Q4W thereafter
Warnings/ precautions	CRS, NTs, infections, neutropenia and hypogammaglobulinaemia		

Chimeric antigen receptor T cells<sup>1</sup>



	Cilta-cel <sup>5*</sup>	Ide-cel <sup>6*</sup>
Approved (EMA)	2022	2021
Indication	≥1 prior LoT (incl. PI, IMiD), len-refractory and PD on last therapy	≥2 prior LoT (incl. PI, IMiD, anti-CD38 mAb) and PD on last therapy
Warnings/ precautions	CRS, NTs, prolonged/recurrent cytopenias, infections/febrile neutropenia, SMNs, hypogammaglobulinaemia and viral reactivation	

Antibody–drug conjugates<sup>1</sup>



	Belantamab mafodotin
Approval status	<b>Monotherapy</b> , withdrawn (2023) <sup>7</sup> <b>Combination (BVd, DREAMM-7;<sup>8</sup> BPd, DREAMM-8<sup>9</sup>)</b> : UK and Japan, approved, 2025; <sup>10,11</sup> EU, positive CHMP (2025), <sup>12</sup> awaiting full approval
Indication	≥1 prior LoT <sup>10–12</sup>
Warnings/ precautions	Corneal adverse reactions, thrombocytopenia, infusion-related reactions and pneumonitis <sup>13</sup>

<sup>1</sup>Must be administered in a specialized treatment centre.

The latest clinical evidence for approved BCMA-directed therapeutic approaches to managing RRMM

CAR T-cell therapy

CARTITUDE-1: Remission and survival ≥5 years following treatment with cilta-cel (mFU, 61.3 months)<sup>14</sup>



Apart from tumour burden (6% vs 17%), pts who were PF for ≥5 years were comparable to pts with PD in <5 years\*

Biomarkers associated with better ≥5-year survival

Pre-infusion:

- Higher T cell:neutrophil ratio (p=0.05)
- Fitter naive T cells in cilta-cel (p=0.003)

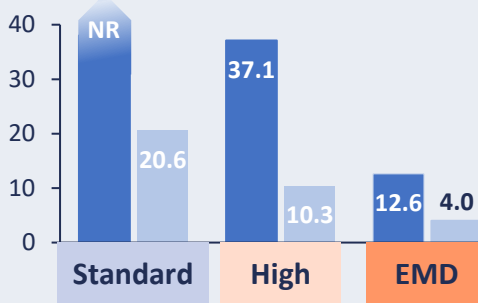
Post-infusion (E:T ratio at peak expansion):

- CAR+ T cells (p=0.008)
- CAR+ CD4+ T cells (p=0.054)

CARTITUDE-4: mPFS (months), subgroup analyses (mFU=33.6 months)<sup>15</sup>

HRCA risk or EMD

- Cilta-cel (n=69; 123; 21)
- SoC (n=70; 132; 187)



Prior LoT

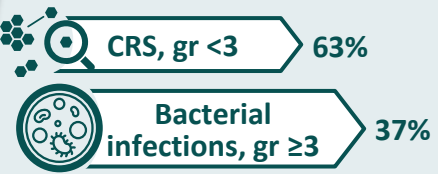
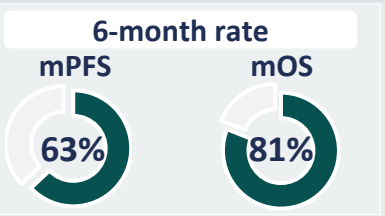
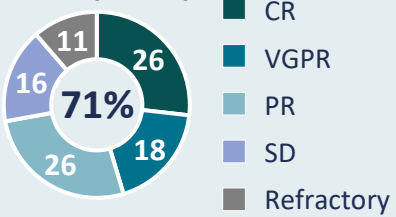
- Cilta-cel (n=68; 83; 57)
- SoC (n=68; 87; 56)



BsAbs

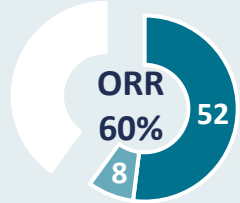
Elranatamab for RRMM: Real-world outcomes from five sites in the UK (mFU, 8.5 months)<sup>16</sup>

ORR (N=43)

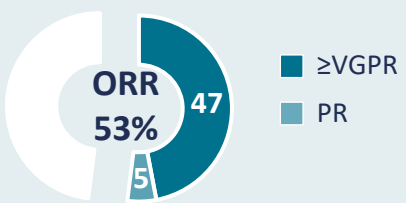


Teclistamab in RRMM: Real-world outcomes from the REALiTEC multi-county observational study (mFU=20.7 months)<sup>17</sup>

Total population (N=113)



Prior-BCMA (34%)\*



- Patients meeting MajesTEC-1 eligibility criteria<sup>18</sup> had better outcomes vs those who did not: **PFS**, p=0.004; **OS**, p=0.015; **DoR**, p=0.024
- Overall, outcomes were comparable to MajesTEC-1,<sup>18</sup> including in subgroups with historically poorer outcomes

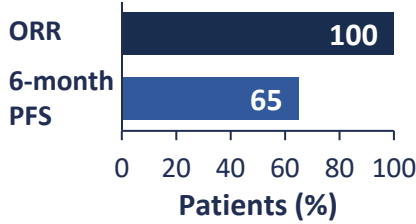
\*Serial MRD and PET/CT assessments for 12 patients in complete remission from a single centre had MRD-negativity ≥10<sup>-5</sup>.

†Median time into treatment: 3 months (0.0–6.6 months).

## Practical considerations for BCMA-targeted CAR T-cell therapies to manage RRMM

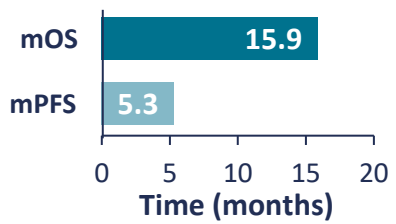
### Studies investigating treatment sequencing

Ide-cel → cilta-cel  
(N=10, mFU: 8.8 months)<sup>19</sup>



! No new safety signals or grade ≥3 CRS/ICANS

GPRC5D-BsAb → BCMA-BsAb  
(N=26; mFU: 20.0 months)<sup>20</sup>



! CRS, grade <3: 50%  
Infections, grade ≥3: 38%

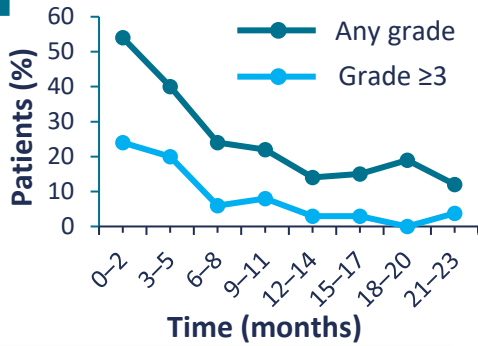
### REALiTEC: The safety profile of teclistamab in the real world<sup>21</sup>



TEAEs, %

	Any grade	Grade ≥3
CRS	56	2
ICANS	4	0
Infections	71	39
Haematological		
Anaemia	26	17
Neutropenia	35	33
Thrombocytopenia	19	15

! Toxicity-related discontinuations 16%



Sequencing of CAR T cell or BsAb therapy appears to be viable

Up to 60% of patients were treated with supportive IVIg

### Management of OEs: Recommendations from the Belamaf Expert Experience Program<sup>22</sup>



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Recommendations

**Screening, identifying and monitoring BL OCs and classifying belamaf-OEs**

- Specialist eye evaluation is recommended before each of the first four cycles



**Dose adjustments**

- Dosing should be based on the KVA scale
- Tailor dosing to mitigate risk of MM relapse



**Effective MDT working**

- Shared learning is important due to varying experience with belamaf in the MDT



**Patient-centric approaches in managing OEs**

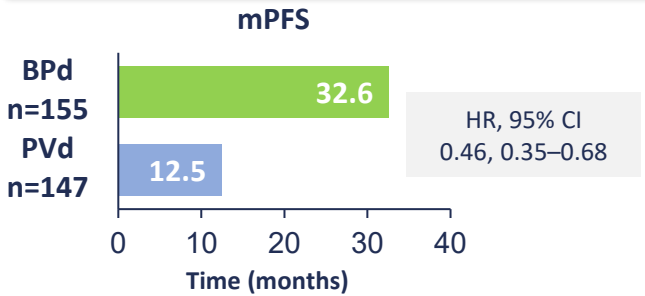
- Communicate the benefits and risks of belamaf
- Support SDM

The guidance that has been developed through the Belamaf Expert Experience Program is a key resource for clinicians to support the effective use of belamaf, while minimizing OEs



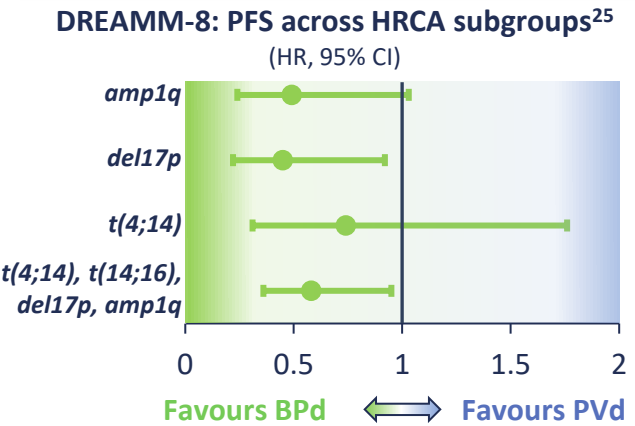
# Congress snapshot of selected emerging agents and indications for treating RRMM

## DREAMM-8 (mFU, 28.0 months)<sup>23</sup>



- A similar treatment benefit was observed for all subgroups analysed
- The updated safety results were consistent with the primary analysis

## DREAMM-7 and -8: HRCAs<sup>24,25</sup>



- A similar treatment benefit was observed in DREAMM-7 (Bvd vs DVd)<sup>24</sup>
- The data support BPd or Bvd as potential SoC for patients with HRCAs<sup>24,25</sup>

ADC

**Phase I/IIa  
HDP-101<sup>26</sup>**

HDP-101 is a novel ADC that targets BCMA with a synthetic amanitin payload. Results are promising and support further dose optimization and investigation.

CAR T

**iMMagine-1<sup>27</sup>  
phase II  
anito-cel**

Anito-cel demonstrates deep and durable efficacy and manageable safety for in a high-risk,  $\geq 4$  LoT, RRMM population. A global, phase III study (iMMagine-3, NCT06413498) is now enrolling.

BsAbs

**Phase Ib<sup>28</sup>  
etentamig (ABBV-383)**

Long-term efficacy and safety for etentamig (1 SUD, Q4W) demonstrates low CRS incidence and durable response. Efficacy was comparable across all subgroups, suggesting therapeutic benefits among a broad RRMM population.

**LINKER-MM2<sup>29,30</sup>  
phase Ib  
LINVO + CFZ or BTZ**

LINVO + CFZ or BTZ show potential as suitable combination therapies for patients with RRMM. Investigation is ongoing.

**MagnetisMM-20<sup>31</sup>  
phase Ib  
ELRA + CFZ + d**

ELRA + CFZ + d demonstrated a predictable safety and efficacy profile (pts: BCMA-naïve, median 2 LoT). Responses deepened over time and, in some cases, persisted following treatment discontinuation. The study is ongoing.

**Phase I/II  
FiH  
OM336<sup>32</sup>**

OM336 is a BCMA x CD3 BsAb with a detuned CD3 platform that is administered subcutaneously. It shows promising initial efficacy and safety, warranting further investigation.

TsAbs

**Phase I  
JNJ-5322<sup>33</sup>**

Dual targeting of BCMA and GPRC5D with low affinity CD3 binding. Intended as an off-the-shelf agent for outpatient dosing. Early data suggest JNJ-5322 offers ORRs that are similar to CAR T-cell therapy.

**Phase I  
ISB 2001<sup>34</sup>**

Tuned BCMA>CD38>CD3 binding and distal positioning of CD38 vs CD3 enhance tumour killing and minimize CD38-related toxicities. Initial data demonstrate deep and durable responses with robust activity across key subgroups.

# Abbreviations and references

## Abbreviations

ADC, antibody–drug conjugate; anito-cel, anitocabtagene autoleucel; BCMA, B-cell maturation antigen; BL, baseline; BPd, belantamab mafodotin, pomalidomide and d; BsAb, bispecific antibody; BTZ, bortezomib; BVd, belantamab mafodotin, bortezomib and d; CAR, chimeric antigen receptor; CFZ, carfilzomib; CHMP, Committee for Medicinal Products for Human Use; CI, confidence interval; cilta-cel, ciltacabtagene autoleucel; CR, complete response; CRS, cytokine release syndrome; d, dexamethasone; DoR, duration of response; DVD, daratumumab, bortezomib and d; ELRA, elranatamab; EMA, European Medicines Agency; EMD, extramedullary disease; FiH, first-in-human; FU, follow-up; GI, gastrointestinal; GPRC5D, G protein-coupled receptor, family C, group 5, member D; gr, grade; HR, hazard ratio; HRCA, high-risk cytogenetic abnormalities; ICANS, immune effector cell-associated neurotoxicity syndrome; ide-cel, idecabtagene vicleucel; Ig, immunoglobulin; IMiD, immunomodulatory drug; IVIg, intravenous Ig; KVA, Keratopathy and Visual Acuity; Len, lenalidomide; LINVO, linvoseltamab; LoT, line of therapy; m, median; mAb, monoclonal antibody; MDT, multidisciplinary team; MHRA, Medicines and Healthcare products Regulatory Agency; MM, multiple myeloma; MRD, minimal residual disease; NR, not reached; NT, neurotoxicity; OC, ocular conditions; OE, ocular event; ORR, objective response rate; OS, overall survival; PD, progressive disease; PET/CT, positron emission tomography/computerized tomography; PF, progression free; PFS, PF survival; PI, proteasome inhibitor; PR, partial response; pts, patients; PVD, pomalidomide, bortezomib and d; Q2W, every 2 weeks; Q4W, every 4 weeks; QW, every week; RRMM, relapsed/refractory MM; scFV, single-chain variable fragment; SD, stable disease; SDM, shared decision-making; SMN, secondary myeloid neoplasm; SoC, standard of care; SUD, step-up-dose; TEAE, treatment-emergent adverse event; TsAb, trispecific antibody; VGPR, very good PR.

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\*EMA Summary of product characteristics and CHMP positive opinion. Available at: [www.ema.europa.eu/en/medicines](http://www.ema.europa.eu/en/medicines) (accessed 10 July 2025).

†ASCO 2025, Chicago, IL, USA. 30 May–3 June 2025. ‡EHA 2025, Milan, Italy. 12–15 June 2025.

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