Multiple Myeloma Satellite Symposium at the 30th European Hematology Association Congress

Innovating relapsed refractory multiple myeloma care: Unmet needs, therapy management, and real-world experience

Saturday, 14th June | 10:00–11:30



Introduction

María Victoria Mateos University of Salamanca, Salamanca, Spain



During this symposium you will learn about...

The continued **unmet needs of patients** with early relapsed refractory MM, with a focus on **the role of XPO1 inhibition** in addressing these challenges

The latest clinical data and strategies for the therapeutic management of relapsed refractory MM

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Real-world experiences with selinexor-based combination regimens and their positioning in the evolving MM treatment landscape

Innovative treatment approaches for enhancing care in patients with relapsed refractory MM

MM, multiple myeloma; XPO1, exportin 1.



Faculty



María Victoria Mateos (Chair)

University of Salamanca, Salamanca, Spain



Karthik Ramasamy

Oxford University Hospitals NHS Foundation Trust, Oxford, UK



Elena Zamagni

University of Bologna, Bologna, Italy



Agenda

Time (CEST)	Title	Presenter
10:00–10:05	Introduction	María Victoria Mateos (Chair) University of Salamanca, Salamanca, Spain
10:05–10:40	Addressing unmet needs with a new mechanism of action: Role and place of XPO1 inhibition	María Victoria Mateos
10:40-11:00	Streamlining therapy management: Practical strategies for enhanced treatment outcomes	Karthik Ramasamy Oxford University Hospitals NHS Foundation Trust, Oxford, UK
11:00-11:20	Bridging evidence and practice: Real-world insights and clinical case discussions	Elena Zamagni University of Bologna, Bologna, Italy
11:20–11:30	Q&A and closing remarks	María Victoria Mateos

XPO1, exportin 1.



Addressing unmet needs with a new mechanism of action: Role and place of XPO1 inhibition

María Victoria Mateos University of Salamanca, Salamanca, Spain



Disclosures

• Honoraria derived from lectures and participation in advisory boards from Janssen, BMS, Amgen, GSK, AbbVie, Pfizer, Regeneron, Roche, Sanofi, Menarini Stemline, and Kite



Disease and patient-based factors influencing treatment decision-making at the relapse setting



Treatment history is a crucial factor

ISS, International Staging System; QoL, quality of life.

Information based on speaker's expert opinion.



EHA-EMN 2025 guidelines

Newly-diagnosed MM: Exposure to proteasome inhibitors, immunomodulatory drugs, and anti-CD38 mAbs



VTd, bortezomib/thalidomide/dexamethasone.

Dimopoulos MA, Terpos E, et al. Nat Rev Clin Oncol. 2025 (under minor revision).



EHA-EMN 2025 guidelines

Most patients coming to 2L will be bortezomib-sensitive



Elo, elotuzumab; EMN, European Myeloma Network; Isa, isatuximab; Ixa, ixazomib; K, carfilzomib; Kd, carfilzomib/dexamethasone; KRd, carfilzomib/lenalidomide/dexamethasone; L, line; mAb, monoclonal antobody; Pd, pomalidomide/dexamethasone;

PomVd, pomalidomide/bortezomib/dexamethasone; R, lenalidomide; Rd, lenalidomide/dexamethasone; S, selinexor; Vd, bortezomib/dexamethasone.

Dimopoulos MA, Terpos E, et al. Nat Rev Clin Oncol. 2025 (under minor revision).



EHA-EMN 2025 guidelines

If anti-BCMA–directed therapy is used in 2L, subsequent use of another anti-BCMA or GPRC5D-targeted agent will likely require an intervening line of therapy to mitigate resistance and restore target antigen expression





Treatment landscape in multiple myeloma

1st line

ASCT eligible

- Anti-CD38 + PI + IMiD + dex
- ASCT
- Len / dara-len

ASCT ineligible

- Dara-len-dex
- Dara-VMP / RVd
- Anti-CD38 + PI + IMiD + dex

2nd line

Based on sensitivity/refractoriness to daratumumab and lenalidomide

- Anti-CD38 + carfilzomib-dex
- Anti-CD38 + pom-dex
- Pom-bortezomib-dex
- Selinexor-bortezomib-dex
- Carfilzomib-dex

Cilta-cel

New combinations:

- Belantamab-Vd (DREAMM-7)
- Belantamab-Pd (DREAMM-8)
- Teclistamab-dara / elranatamab
- Talquetamab-pom or teclistamab-talquetamab
- Linvoseltamab
- Etentamig

ASCT, autologous stem cell transplant; cilta-cel, ciltacabtagene autoleucel; dara, daratumumab; dex, dexamethasone; IMiD, immunomodulatory drug; len, lenalidomide; Pd, pomalidomide/dexamethasone; PI, proteasome inhibitor; pom, pomalidomide; RVd, lenalidomide/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone; VMP, bortezomib/melphalan/prednisolone.

Mateos MV, personal communication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309-322.



Options for daratumumab sensitive patients



tHR correlates with difference in median OS prior to extrapolating the observed trend. CJ, confidence interval; CR, complete response; CrCJ, creatinine clearance; DOR, duration of response; DPd, daratumumab/pomalidomide/dexamethasone; ECOG PS, Eastern Cooperative Oncology Group Performance Status; HR, hazard ratio; HRQoL, health-related quality of life; Isa-Kd, isatusimab/carfilzomib/dexamethasone; Kd, carfilzomib/dexamethasone; KdD, carfilzomib/dexamethasone; LEN, lenalidomide; LOT, line of therapy; MM, multiple myeloma; mo, months; MRD, minimal residual disease; ORR, overall response rate; OS, overall survival; Pd, pomalidomide/dexamethasone; PFS, progression-free survival; PI, proteasome inhibitor; R/R, relapsed refractory; TTNT, time to next treatment; VGPR, very good partial response.

1. Usmani S, et al. *Blood Adv.* 2023;7(14):3739–3748; 2. Yong K, et al. *Lancet Haematol.* 2024;11(10):e741–e750; 3. Martin T, et al. *Blood Cancer J.* 2023; 13: 72; 4. Dimopoulos MA, et al. *Lancet Haematol.* 2023;10(10):e813–e824.



Selinexor: A first-in-class oral exportin 1 (XPO-1) inhibitor¹



XPO1 overexpression:

Inactivates tumor suppressor proteins²

- TSPs need to be localized in the nucleus to initiate apoptosis thereby suppressing tumor growth^{3,4}
- Overexpression of XPO1 results in their functional inactivation of TSPs²

Enhances proto-oncogene translation⁵

 XPO1 overexpression increases nuclear export, and subsequent translation and protein synthesis of multiple eIF4E-bound oncogenic mRNAs

Disrupts growth regulation^{2,3}

 Increased XPO1 expression promotes sustained cellular proliferation through increased cytoplasmic localization and expression of master growth regulators

Selinexor is indicated i) in combination with bortezomib and dexamethasone for the treatment of adult patients with MM who have received ≥1 prior therapy ii) in combination with dexamethasone for the treatment of MM in adult patients who have received ≥4 prior therapies and whose disease is refractory to ≥2 proteasome inhibitors, two immunomodulatory agents and an anti-CD38 monoclonal antibody, and who have demonstrated disease progression on the last therapy. eIF4E, eukaryotic translation initiation factor 4E; TSP, tumor suppressor protein; XPO1, exportin-1.

Peterson TJ, et al. Ann Pharmacother. 2020;54(6):577–582; 2. Sun Q, et al. Signal Transduct Target Ther. 2016;1:16010;
 Tai Y-T, et al. Leukemia. 2014;28(1):155–165; 4. O'Hagan HM, et al. Oncogene. 2004;23(32):5505–5512;
 Culjkovic-Kraljacic B, et al. Cell Rep. 2012;2(2):207–215.



BOSTON: A Phase 3, global, randomized, open-label, controlled study in patients with multiple myeloma who had received 1–3 prior therapies

Study design

Phase 3, multicenter, randomized, open-label study (NCT03110562)



- Median age was 67 years (IQR 59–73) and 81 (20%) patients were aged ≥75 years or older
- Median number of previous regimens was two (1–2), 75 (19%) patients had received three previous lines of therapy, and 139 (35%) patients had undergone SCT

*DEX dosing presented is for cycles 1–8; for cycles ≥9 DEX was given as 20 mg on days 1, 2, 8, 9, 15, 16, 22, 23, 29, and 30 of each 35-day cycle; ¹OS is not yet reached. BOR, bortezomib; DEX, dexamethasone; DOR, duration of response; IQR, interquartile range; IRC, independent review committee; OS, overall survival; PD, progressive disease; PFS, progression free survival; PN, peripheral neuropathy; PO, taken orally; SC, subcutaneous; SCT, stem cell transplant; SEL, selinexor; SVd, selinexor/bortezomib/dexamethasone; TNT, time to next treatment; Vd, bortezomib/dexamethasone; VGPR, very good partial response.

Grosicki S, et al. Lancet. 2020;396(10262):1563-1573.



Significant increase in mPFS with SVd vs. Vd in BOSTON

	SVd arm (n=195)	Vd arm (n=207)
Median PFS, months (95% CI)*	13.93 (11.73–NE)	9.46 (8.11–10.78)
	HR 0.70 (95% CI: 0.53–0.93); one-sided p=0.0075	

Kaplan-Meier estimates of progression-free survival among patients in the ITT population



MENARINI group Stemline A Menarini Group Company

SVd vs. Vd in R/R MM: Updated results by prior therapies and bortezomib naïve



ORR: 80.8% in SVd arm vs. 66.7% in Vd arm

• 51% (SVd) and 48% (Vd) of patients received one prior line of therapy¹

- Among patients who received one prior line of therapy (SVd vs. Vd)²
 - Median age: 67 vs. 69 years
 - Male: 56% vs. 54%
 - ECOG PS 0-1: 92% vs. 94%
 - High-risk cytogenetic abnormalities: 51% vs. 48%
 - *R-ISS stage I*-*II*: 86% vs. 86%
 - Median time since diagnosis: 2.9 vs. 2.8 years
 - Prior SCT: 39% vs. 23%
 - Creatine clearance at baseline >60 mL/min: 71% vs. 65%

Median follow-up: 29.0 months for SVd and 28.7 months for Vd.

CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group Performance Status; ISS, International Staging System; MM, multiple myeloma; ORR, overall response; PFS, progression-free survival; R/R, relapsed/refractory; SCT, stem cell transplant; SVd, selinexor/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone.

1. Dimopoulos MA, et al. Abstract 8501; presented at ASCO 2020; 2. Mateos MV, et al. Eur J Haematol 2024;113(2):242–252.



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PFS in patients with one prior line of therapy²

SVd vs. Vd in R/R MM: Updated results by prior therapies and bortezomib naïve



PFS in bortezomib-naïve patients²

51% (SVd) and 48% (Vd) of patients received one prior line of therapy¹

- Among patients who received one prior line of therapy (SVd vs. Vd)²
 - Median age: 67 vs. 69 years
 - *Male:* 56% vs. 54%
 - ECOG PS 0-1: 92% vs. 94%
 - High-risk cytogenetic abnormalities: 51% vs. 48%
 - *R-ISS stage I–II*: 86% vs. 86%
 - Median time since diagnosis: 2.9 vs. 2.8 years
 - Prior SCT: 39% vs. 23%
 - Creatine clearance at baseline >60 mL/min: 71% vs. 65%

ORR: 75.4% in SVd arm vs. 69.4% in Vd arm

Median follow-up: 29.0 months for SVd and 28.7 months for Vd.

CI, confidence interval; ECOG PS, Eastern Cooperative Oncology Group Performance Status; ISS, International Staging System; MM, multiple myeloma; ORR, overall response; PFS, progression-free survival; R/R, relapsed/refractory; SCT, stem cell transplant; SVd, selinexor/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone.

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BOSTON subgroup analysis of patients with lenalidomide-refractory MM: Significant improvement in PFS and OS with SVd vs. Vd



• Higher ORR with SVd vs. Vd (67.9% vs. 47.2%; OR 2.59 [95% CI: 1.17–5.77]; p=0.009)

• Higher ≥VGPR with SVd vs. Vd (35.8% vs. 24.5%; OR 1.74 [95% CI: 0.72–4.21]; p=0.109)

CI, confidence intervals; MM, multiple myeloma; OR, odds ratio; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SVd, selinexor/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone; VGPR, very good partial response.

Mateos MV, et al. Eur J Haematol 2024;113(2):242–252.



SVd safety: BOSTON

Safety profile was manageable; the most common any grade AEs were GI AEs, thrombocytopenia and anemia, the most common Grade 3/4 AEs were thrombocytopenia, fatigue, anemia and pneumonia

 AEs may be managed by dose modification and supportive therapeutic measures



*Three patients from this group who did not receive any doses of study drug were excluded from the safety population; †Includes four Grade 5 events: three (2%) cases of pneumonia and one (1%) case of bronchitis; ‡Includes four Grade 5 events: three (1%) cases of pneumonia and one (<1%) case of anemia; §Includes high-level MedDRA term "peripheral neuropathies NEC".

AE, adverse event; GI, gastrointestinal; MedDRA, medical dictionary for regulatory activities; SVd, selinexor/bortezomib/dexamethasone; TEAE, treatment-emergent adverse event; Vd, bortezomib/dexamethasone.

Grosicki S, et al. Lancet. 2020;396(10262):1563-1573.



Treatment landscape in multiple myeloma

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ASCT eligible

- Anti-CD38 + PI + IMiD + dex
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- Len / dara-len

ASCT ineligible

- Dara-len-dex
- Dara-VMP / RVd
- Anti-CD38 + PI + IMiD + dex

2nd line

Based on sensitivity/refractoriness to daratumumab and lenalidomide

- Anti-CD38 + carfilzomib-dex
- Anti-CD38 + pom-dex
- Pom-bortezomib-dex
- Selinexor-bortezomib-dex
- Carfilzomib-dex

Cilta-cel

New combinations:

- Belantamab-Vd (DREAMM-7)
- Belantamab-Pd (DREAMM-8)
- Teclistamab-dara / elranatamab
- Talquetamab-pom or teclistamab-talquetamab
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ASCT, autologous stem cell transplant; cilta-cel, ciltacabtagene autoleucel; dara, daratumumab; dex, dexamethasone; IMiD, immunomodulatory drug; len, lenalidomide; Pd, pomalidomide/dexamethasone; PI, proteasome inhibitor; pom, pomalidomide; RVd, lenalidomide/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone; VMP, bortezomib/melphalan/prednisolone.

Mateos MV, personal communication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309-322.



CARTITUDE-4: Phase 3 trial of cilta-cel vs. PVd/DPd in lenalidomide-refractory MM after 1–3 prior lines¹



- Cilta-cel provided high ORR and sCR/CR rate with sustained DOR¹
- At 33.6 months follow-up, ORR was 84.6% (sCR/CR: 76.9%) in the cilta-cel arm vs. 67.3% (sCR/CR: 24.2%) in the SoC arm¹
- Median DOR (95% CI) was NR (NE–NE) in the cilta-cel arm and 18.7 months (12.9–23.7) in the SoC arm¹
- Safety profile consistent with previous analysis²
 - All grade and Grade ≥3 treatment-emergent infections occurred in 63.5% and 28.4% of patients in the cilta-cel arm vs. 76.4% and 29.8% in the SoC arm³
 - SPMs occurred in 13.0% of patients in the cilta-cel arm vs. 11.5% in the SoC arm; of these 7.2% were cutaneous/non-invasive in each arm^{3§}
 - No new cases of cranial nerve palsy or MNT in the cilta-cel arm³

*Nominal p-value; †Log-rank test. p-value, 0.0009, crossed the prespecified boundary of 0.0108 as implemented by the Kim-DeMets spending function with parameter=2; ‡HR and 95% Cl from a Cox proportional hazards model with treatment as the sole explanatory; 9Multiple SPMs could occur in the same patient. Cl, confidence interval; clita-cel, ciltacabtagene autoleucel; CR, complete response; DOR, duration of response; DPd, daratumumab/pomalidomide/dexamethasone; HR, hazard ratio; ITT, intention-to-treat; MNT, movement and neurocognitive treatment-emergent adverse event; NE, not estimable; NR, not reached; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PVd, pomalidomide/bortezomib/dexamethasone; SCR, stringent CR; SoC, standard of care; SPM, secondary primary malignancy.

Popat R, et al. Abstract 1032; oral presentation at ASH 2024;
 San-Miguel J, et al. N Engl J Med. 2023;389(4):335–347;
 Mateos MV, et al. Abstract #1437; oral presentation at IMS 2024.



Phase 3 DREAMM-7/8 studies: Summary

	Study design	Baseline characteristics	Median PFS, mos [*]	Median OS, mos [*]	ORR, % (95% CI) [†]	Safety profile [‡]	Belantamab-associated AEs
DREAMM-7 ¹	BVd (n=243) DVd (n=251) Primary endpoint: PFS Secondary endpoints: OS, DOR, MRD-negative status	 1 prior LOT: BVd, 51%; DVd, 50% High-risk cytogenetics: BVd, 28%; DVd, 27% LEN-refractory: BVd, 33%; DVd, 35% 	BVd, 36.6 vs. DVd, 13.4 HR 0.41 (95% CI: 0.31– 0.53); p<0.001	NR vs. NR At 18 months: BVd, 84% vs. DVd, 73% HR 0.57 (95% CI: 0.40–0.80)	BVd, 83% (77–87%) vs. DVd, 71% (65–77%)	AEs Any grade: 100%; Grade 3–4: 95% Serious AEs 50% Discontinuation due to AEs 26%	Ocular events Any grade: 79%; Grade 3–4: 34% Blurred vision Any grade: 66%; Grade 3–4: 22% Worsening vision from normal to: 20/50, 34%; 20/200, 2% Infections Any grade: 70%; Grade 3–4: 31%
DREAMM-8 ²	BPd (n=155) PVd (n=147) Primary endpoint: PFS Secondary endpoints: ORR, MRD negativity, DOR	 1 prior LOT: BPd, 53%; PVd, 52% High-risk cytogenetics: BPd, 34%; PVd, 32% LEN-refractory: BPd, 81%; PVd, 76% Anti-CD38 mAb- refractory: BPd, 23%; PVd, 24% 	BPd, NR vs. PVd, 12.7 HR 0.52 (95% CI: 0.37– 0.73); p<0.001	NR vs. NR 12-month estimate: BPd, 83% vs. PVd, 76% HR 0.77 (95% CI: 0.53–1.14)	BPd, 77% (70–84%) vs. PVd, 72% (64–79%)	AEs Any grade: 99%; Grade 3–4: 94% Serious AEs 63% Discontinuation due to AEs 15%	Ocular events Any grade: 89%; Grade 3–4: 43% Blurred vision Any grade: 79%; Grade 3–4: 17% Worsening vision from normal to: 20/50 34%; 20/200: 1% Infections Any grade: 82%; Grade 3–4: 49%

Median follow-up for DREAMM-7 was 28.2 months, and for DREAMM-8 was 21.8 months. *HRs estimated using the stratified Cox proportional hazards model and p-value was produced based on the 1-sided stratified log-rank test; †PR or better; [†]BVd arm in DREAMM-7.

AE, adverse event; BPd, belantamab mafodotin/pomalidomide/dexamethasone; BVd, belantamab mafodotin/bortezomib/dexamethasone; Cl, confidence interval; DOR, duration of response; DVd, daratumumab/bortezomib/dexamethasone; HR, hazard ratio; LEN, lenalidomide; LOT, line of therapy; mAb, monoclonal antibody; MRD, minimal residual disease; NR, not reached; ORR, overall response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PR, partial response; PVd, pomalidomide/bortezomib/dexamethasone.

1. Hungria V, et al. N Engl J Med. 2024;391(5):393-407; 2. Dimopoulos MA, et al. N Engl J Med. 2024;391:408-421.



Disease and patient-based factors influencing treatment decision-making at the relapse setting



QoL, quality of life; SVd, selinexor/bortezomib/dexamethasone.

Information based on speaker's expert opinion.



Treatment landscape in multiple myeloma in the future

1st line

ASCT eligible

- Anti-CD38 + PI + IMiD + dex •
- ASCT

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GPRC5D-BsAb + dara

Belamaf-Vd / Belamaf-Pd

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• Len / dara-len x 2 yrs or len s/a

ASCT ineligible

- Dara-len-dex •
- Dara-VMP / RVd
- Anti-CD38 + PI + IMiD + dex

2nd line

Intermediate/ **Patients relapsing after Early relapses** late relapses Dara-Rd Cilta-cel Cilta-cel Cilta-cel Elranatamab s/a Elranatamab s/a Elranatamab s/a BCMA-BsAb + dara Belamaf-Vd / Belamaf-Pd ٠ •

BCMA-BsAb + dara

Selinexor-Vd

GPRC5D-BsAb + dara

Kd Anti-CD38 / Pd Anti-CD38

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- Belamaf-Vd / Belamaf-Pd
- PVd ٠
- Selinexor-Vd

ASCT, autologous stem cell transplant; BCMA, B cell maturation antigen; BsAb, bispecific antibody; cilta-cel, ciltacabtagene autoleucel; dara, daratumumab; dex, dexamethasone; GPRC5D, G-protein-coupled receptor class C group 5 member D; IMiD, immunomodulatory drug; Kd, carfilzomib/dexamethasone; len, lenalidomide; PI, proteasome inhibitor; Pd, pomalidomide/dexamethasone; PVd, pomalidomide/bortezomib/dexamethasone; Rd, lenalidomide/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone; VMP, bortezomib/melphalan/prednisolone; yrs, years.

Selinexor-Vd

Mateos MV, personal communication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309-322.



CARTITUDE-4 subgroup analysis: PFS in functional high-risk R/R MM

Functionally high risk (FHR): PD ≤18 months after ASCT or the start of initial 1L therapy in patients with no ASCT



DEC	1 Prio	or LOT	1 Prior LOT + FHR			
PFS	Cilta-cel (n=68) SoC (n=68)		Cilta-cel (n=40)	SoC (n=39)		
Median (95% CI), months	NR (NE–NE)	17.41 (11.10–NE)	NR (18.00-NE)	11.79 (8.44–NE)		
HR (95% CI); p-value	0.35 (0.19–0.66); 0.0007		0.27 (0.12–0.60); 0.0006			

AE, adverse event; ASCT, autologous stem cell transplant; CAR-T, chimeric antigen receptor T cell; CI, confidence interval; CRS, cytokine release syndrome; FHR, functionally high risk; HR, hazard ratio; ICANS, immune cell associated neurotoxicity syndrome; LOT, line of therapy; MM, multiple myeloma; NE, not estimable; NR, not reached; PD, progressive disease; PFS, progression-free survival; R/R, relapsed/refractory; SoC, standard of care; TEAE, treatment-emergent adverse event

12-mo rate 77.0% (95% CI, 60.3-87.3) % 49.1% (95% CI, 32.4-63.8) 100 Patients progression free and alive, 75 50 25

12

26

18

Progression-free survival, mo

15

16

11

PFS in patients with 1 prior LOT + FHR

CAR-T associated AEs of special interest (All grade: 1 prior LOT vs. 1 prior LOT and FHR, below) were generally low grade in severity; no Grade 4 events occurred

3

18

21

5

1

24

0

27

0

0

_ CRS (64.7% vs. 62.5%)

0

No. at risk

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Cilta-cel: 40

SOC: 39

3

36

34

- ICANS (2.9% vs. 5.0%) _
- Cranial nerve palsy (8.8% vs. 7.5%)
- Movement and neurocognitive TEAEs (1.5% vs. 0%)
- Peripheral neuropathy (2.9% vs. 5.0%)

9

33

24

6

34

28

Costa L, et al. Abstract 7504; presented at ASCO 2024 ; Weisel K, et al. Abstract P959; presented at EHA 2024.



Treatment landscape in multiple myeloma in the future

1st line

ASCT eligible

- Anti-CD38 + PI + IMiD + dex
- ASCT

Early relapses

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Elranatamab s/a

Selinexor-Vd

BCMA-BsAb + dara

GPRC5D-BsAb + dara

Belamaf-Vd / Belamaf-Pd

Cilta-cel

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• Len / dara-len x 2 yrs or len s/a

ASCT ineligible

- Dara-len-dex
- Dara-VMP / RVd
- Anti-CD38 + PI + IMiD + dex

2nd line

Intermediate/ late relapses

- Cilta-cel
- Elranatamab s/a
- Belamaf-Vd / Belamaf-Pd
- BCMA-BsAb + dara
- GPRC5D-BsAb + dara
- Kd anti-CD38 / Pd anti-CD38
- Selinexor-Vd

Patients relapsing after Dara-Rd

- Cilta-cel
- Elranatamab s/a
- Belamaf-Vd / Belamaf-Pd
- PVd
- Selinexor-Vd

ASCT, autologous stem cell transplant; BCMA, B cell maturation antigen; BsAb, bispecific antibody; cilta-cel, ciltacabtagene autoleucel; dara, daratumumab; dex, dexamethasone; GPRCSD, G-protein-coupled receptor class C group 5 member D; INID; immunomodulatory drug; Kd, carfilzomib/dexamethasone; len, lenalidomide; PI, proteasome inhibitor; Pd, pomalidomide/dexamethasone; Vd, pomalidomide/bortezomib/dexamethasone; Rd, lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; NMP, bortezomib/melphalan/prednisolone; vrs, years.





Treatment landscape in multiple myeloma in the future

1st line

ASCT eligible

- Anti-CD38 + PI + IMiD + dex
- ASCT

Relapse during Dara-R or

early after Dara stopping

Belamaf-Vd / Belamaf-Pd

Elranatamab s/a

Selinexor-Vd

Cilta-cel

• Len / dara-len x 2 yrs or len s/a

ASCT ineligible

- Dara-len-dex
- Dara-VMP / RVd
- Anti-CD38 + PI + IMiD + dex

2nd line

Late relapse after Dara stopped and continued with R/R s/a

- Cilta-cel
- Elranatamab s/a
- Belamaf-Vd / Belamaf-Pd
- BCMA-BsAb + dara
- GPRC5D-BsAb + dara
- Kd anti-CD38 / Pd anti-CD38
- Selinexor-Vd

Patients relapsing after Dara-Rd

- Cilta-cel
- Elranatamab s/a
- Belamaf-Vd / Belamaf-Pd
- PVd
- Selinexor-Vd

Patients relapsing after Dara-Rd present a challenge when considering subsequent therapies

ASCT, autologous stem cell transplant; BCMA, B cell maturation antigen; BsAb, bispecific antibody; cilta-cel, ciltacabtagene autoleucel; dara, daratumumab; dex, dexamethasone; GPRCSD, G-protein-coupled receptor class C group 5 member D; INID; immunomodulatory drug; Kd, carfilzomib/dexamethasone; len, lenalidomide; PI, proteasome inhibitor; Pd, pomalidomide/dexamethasone; Vd, pomalidomide/bortezomib/dexamethasone; Rd, lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; NMP, bortezomib/melphalan/prednisolone; vrs, years.

Mateos MV, personal communication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309-322.



Gene clusters correlated with ex vivo sensitivity/resistance to selinexor showed patterns opposing those of daratumumab

Resistance Sensitivity Resistance Sensitivity KEGG Pathways: Ribosome, RNA KEGG Pathways: Complement & KEGG Pathways: Ribosome, KEGG Pathways: Cell Adhesion & Degradation, Spliceosome, RNA Coagulation, Focal Adhesion, Spliceosome Inflammatory Cytokines Polymerase, Proteasome Inflammatory Cytokines Cancer Hallmarks: EMT, Cancer Hallmarks: MYC Targets, Cancer Hallmarks: MYC & E2F Cancer Hallmarks: TNFa Signaling Angiogenesis, KRAS Signaling up **DNA Repair, Ox Phos** Targets, OxPhos, DNA Repair, via NFκβ, Hypoxia, Myogenesis, Mutations: CEP290 Mutations: BCL7A Protein Secretion Complement, KRAS Signaling Up Selinexor Daratumumab Sensitive Resista Sensitive esistant

MM transcriptomic profile overlayed with gene clusters correlated with treatment sensitivity and resistance

Genes associated with resistance to daratumumab were found to be associated with sensitivity to selinexor and vice versa

BCL7A, BAF chromatin remodeling complex subunit BCL7A; CEP290, centrosomal protein 290; KEGG, kyoto encyclopedia of genes and genomes; NFκβ, nuclear factor kappa B; MM, multiple myeloma; MYC, MYC proto-oncogene; TNFα, tumor necrosis factor alpha.

Sudalagunta PR, et al. Abstract #893; presented at ASH 2021.



Efficacy of selinexor triplet among patients treated with an anti-CD38 mAb in prior lines of therapy PFS and OS

- The efficacy of selinexor-containing triplet regimens was analyzed in a subset of **STOMP* and BOSTON study patients** (n=62) with MM enrolled after a **median of 4 prior lines**¹
- At a median follow-up of 6.9 months¹:
 - mPFS was 10.9 months
 - Highest mPFS was observed with SKd (15.0 months)
- At a median follow-up of 14.5 months¹:
 - mOS was 20.4 months
 - Highest OS was also observed with SKd (33.0 months)
- Among all patients, ORR was 58.1%¹
 - ORR was highest in the SKd cohort (65.2%)¹
 - Among patients treated with an anti-CD38 mAb in their most recent prior line of therapy, ORR was 56.1%¹
- CBR was 72.6% among all patients, with similar percentages in each cohort¹

Kaplan-Meier curves comparing PFS and OS of patients treated with SPd, SVd, SKd and all cohorts combined¹



• In the BOSTON study, 11 patients in the SVd arm had prior daratumumab with a mPFS of 12.2 months²

*Selinexor combinations in the STOMP trial are not all approved.

CBR, clinical benefit rate; mAb, monoclonal antibody; (m)OS, (median) overall survival; (m)PFS, (median) progression-free survival; MM, multiple myeloma; NE, not estimable; ORR, overall response rate; SKd, selinexor/carfilzomib/dexamethasone; SPd, selinexor/dexamethasone/pomalidomide; SVd, selinexor/bortezomib/dexamethasone.

1. Schiller G, et al. *Clin Lymphoma Myeloma Leuk.* 2023;23(9):e286–e296.e4; 2. Mateos MV, et al. *Eur J Haematol.* 2024;113(2):242–252.



What about the other combinations in patients naïve to proteasome inhibitors, for example PVd?

PVd, pomalidomide/bortezomib/dexamethasone.



PVd vs. Vd: PFS by prior lines and prior bortezomib exposure

• PVd significantly reduced the risk of progression or death by 53% in bortezomib-exposed patients (p=0.0068)



PFS after 1 prior line¹

Without prior bortezomib²



BORT, bortezomib; CI, confidence Interval; PFS, progression-free survival; HR, hazard ratio; NE, not evaluated; PVd, pomalidomide/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone.

1. Richardson PG, et al. Lancet Oncol 2019;20(6):781–794; 2. Dimopoulos MA, et al. Leukemia. 2021;35(6):1722–1731(supplement).



Kd vs. Vd: PFS by prior lines of therapy and no prior bortezomib exposure



PFS after one prior line of therapy¹

PFS in bortezomib naïve²

CI, confidence interval; HR, hazard ratio; IV, intravenous; Kd, carfilzomib/dexamethasone; (m)PFS, (median) progression-free survival; pt, patient; Vd, bortezomib/dexamethasone.

1. Moreau P, et al. Leukemia 2017;31(1):115-122; 2. Goldschmidt H, et al. Leuk Lymphoma. 2018;59(6):1364-1374.



Treatment landscape in multiple myeloma in the future

1 st line	ASCT eligible		ASCT ineli	gible	
	 Anti-CD38 + PI + IMiD + dex ASCT Len / dara-len x 2 yrs or len s/ 	′a	 Dara-len-dex Dara-VMP / RVd Anti-CD38 + PI + 	IMiD + dex	
2 nd line Ea	nrly relapses	Inte late	rmediate/ e relapses	Patients	s relapsing after dara-Rd
 SVd: PFS of 29.5 months in PI PVd: PFS of 20.7 months in Kd: PFS was 17.7 in PI naïv 	naïve n PI naïve e*			This infor elderly pati first relaps	rmation is relevant for the ents coming from dara-Rd in se and naïve for bortezomib

*Specifically in bortezomib naïve patients, with data presented for IV Kd.

ASCT, autologous stem cell transplant; dara, daratumumab; dex, dexamethasone; IV, intravenous; Kd, carfilzomib/dexamethasone; len, lenalidomide; PFS, progression-free survival; PI, proteasome inhibitor; PVd, pomalidomide/bortezomib/dexamethasone; Rd, lenalidomide/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; SVd, selinexor/bortezomib/dexamethasone; VMP, bortezomib/melphalan/prednisolone; yrs, years.

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Mateos MV, personal communication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309–322; Goldschmidt H, et al. Leuk Lymphoma. 2018;59(6):1364–1374; Richardson PG, et al. Eur J Haematol. 2025;114(5):822–831; Mateos MV, et al. Eur J Haematol. 2024;113:242–252.

Treatment landscape in multiple myeloma in the future

1 st line	ASCT eligible		ASCT ineligible	
	 Anti-CD38 + PI + IMiD + dex ASCT Len / dara-len x 2 yrs or len s/a 		 Dara-len-dex Dara-VMP / RVd Anti-CD38 + PI + IMiD + dex 	
Relapso 2 nd line early at	e during dara-R or Late rel ter dara stopping and co	apse a ontini	after dara stopped Patients red with R/R s/a	s relapsing after dara-Rd

But... what about lenalidomide-refractory patients?

ASCT, autologous stem cell transplant; dara, daratumumab; dex, dexamethasone; len, lenalidomide; PI, proteasome inhibitor; Rd, lenalidomide/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; VMP, bortezomib/melphalan/prednisolone; yrs, years.

Mateos MV, personal communication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309-322.



PFS and OS in lenalidomide-refractory patients

Study	Regimen	Arm	mPFS in lenalidomi	de-refractory	patients					
ENDEAVOR ^{1*}	Kd¹ : Doublet, PI, one new MoA	Kd	Common Grade \geq 3 TEAEs included anemia (Kd, 17.3% vs. Vd, 10.1%), hematopoi							
1–3 prior lines of therapy		Vd	and fatigue (Kd, 6.9% vs. Vd. 7.7) ^{4¶}							
OPTIMISMM ^{2†} 1–3 prior lines of therapy, received prior Triplet, PI, o		PVd	Grade 3/4 TEAEs occ	Grade 3/4 TEAEs occurred in 93.2% of patients in the PVd arm and 71.9% of						
treatment with a lenalidomide- containing regimen for ≥2 consecutive cycles, not bortezomib refractory	new MoA	Vd	patients in the Vd arm, most commonly neutropenia in the PVd arm (47.1%, vs. 8.9% [Vd arm]) and thrombocytopenia in the Vd arm (29.3%, vs. 28.1% [SVd arm]) ⁵ ¶							
BOSTON ^{3‡}	SVd ³ :	SVd	Common Grade 3/4	RAEs included t l	hrombocytope	enia (SVd, 45	% vs. Vd, 319	%),		
1–3 prior lines of therapy	new MoAs	Vd	cataract (SVd, 13% vs	. Vd, 2%), and di a	arrhea (SVd, 1	1% vs. Vd, 0%	6) ³			
		(2	4 6	8	10	12	14		
					Months					

Data presented side by side for illustration purposes only – this is not a head-to-head comparison of these studies. *Median follow-up was 11.9 months (Kd arm) and 11.1 months (Vd arm); *Median follow-up was 15.9 months; *Median follow-up was 28.2 months (SVd) and 27.1 months (Vd); §Median follow-up approximately 44 months; ||Median follow-up of 64.5 months; *AEs not specific to lenalidomide refractory patients. Cl. confidence interval; DRd, daratumumab/lenalidomide/dexamethasone; HR, hazard ratio; Kd, cafflizomib/dexamethasone; Len, lenalidomide; MOA, mechanism of action; (m)PFS, (median) progression-free survival; (m)OS, (median) overall survival; PI, proteasome inhibitor; PVd, pomalidomide/bortezomib/dexamethasone; SVd, selinexor/bortezomib/dexamethasone; TEAE, treatment-emergent adverse event; TRAE, treatment-related adverse event; Vd, bortezomib/dexamethasone.

Moreau P, et al. Leukemia. 2017;31:115–122; 2. Richardson PG, et al. Lancet Oncol. 2019;20:781–94;
 Mateos MV, et al. Eur J Haematol. 2024;113:242–25; 4. Orlowski RZ, et al. Clin Lymphoma Myeloma Leuk. 2019;19(8):522–530.e1;
 Richardson P, et al. Eur J Haematol. 2025;114(5):822–831.


Treatment landscape in multiple myeloma in the future

1 st line	ASCT eligible		ASCT ineligible	
	 Anti-CD38 + PI + IMiD + dex ASCT Len / dara-len x 2 yrs or len s/a 	DarDarAnt	∙a-len-dex ∙a-VMP / RVd :i-CD38 + PI + IMiD + dex	
2 nd line	Early relapses	ntermediat late relapse	e/ Patien es	ts relapsing after dara-Rd
 SVd: mPFS of 10.2 months in a significantly longer mC PVd: mPFS of 9.5 months in - No significant difference Kd: mPFS of 8.6 months in - No significant difference 	enalidomide-refractory <i>PS for SVd vs. Vd</i> In lenalidomide-refractory <i>in mOS for PVd vs. Vd</i> lenalidomide-refractory <i>in mOS for Kd vs. Vd</i>	The lenalid Cilta-cel ha patients an	omide-refractory popula s been especially condu d is more effective, but	ation is a challenging population cted in lenalidomide-refractory not available worldwide

ASCT, autologous stem cell transplant; cilta-cel, ciltacabtagene autoleucel; dara, daratumumab; dex, dexamethasone; IMiD, immunomodulatory drug; Kd, carfilzomib/dexamethasone; len, lenalidomide; mPFS, median progression-free survivai; mOS, median overall survival; PI, proteasome inhibitor; PVd, pomalidomide/bortezomib/dexamethasone; Rd, lenalidomide/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; SVd, selinixor/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone; VMP, bortezomib/melphalan/prednisolone; yrs, years.

Mateos MV, personal communication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309–322; Moreau P, et al. Leukemia. 2017;31:115–122; Richardson PG, et al. Lancet Oncol. 2019;20:781–94; Mateos MV, et al. Eur J Haematol. 2024;113:242–25;



Treatment landscape in multiple myeloma in the future

1st line

ASCT eligible

- Anti-CD38 + PI + IMiD + dex
- ASCT
- Len / dara-len x 2 yrs or len s/a

ASCT ineligible

- Dara-len-dex
- Dara-VMP / RVd
- Anti-CD38 + PI + IMiD + dex

2nd line

Intermediate/ Patients relapsing after **Early relapses** late relapses dara-Rd Cilta-cel Cilta-cel Cilta-cel Belamaf-Vd / belamaf-Pd • Elranatamab s/a ٠ • Tec or tal-based combos • Linvo / enentamig • Linvo / enentamib • Linvo / enentamib Belamaf-Vd / belamaf-Pd ٠ Belamaf-Vd / belamaf-Pd • PVd / selinexor-Vd

> Belantamab-based combinations can be a good option in this landscape... but their use means targeting BCMA earlier and some physicians prefer to reserve BCMA for CAR-T or BsAbs when available

ASCT, autologous stem cell transplant; BCMA, B cell maturation antigen; BsAb, bispecific antibody; CAR-T, chimeric antigen receptor T cell; cilta-cel, ciltacabtagene autoleucel; dara, daratumumab; dex, dexamethasone; IMID; immunmodulatory drug; Kd, carilizomib/dexamethasone; Ien, lenalidomide; PI, proteasome inhibitor; Pd, pomalidomide/dexamethasone; PVd, pomalidomide/bortezomib/dexamethasone; RA, lenalidomide/dexamethasone; RVd, lenalidomide/bortezomib/dexamethasone; ta, talquetamab; tec, teclistamab; Vd, bortezomib/dexamethasone; VMP, bortezomib/dexamethasone; YMP, bortezomib/dexamethasone; VMP, bortezomib/dexa

Mateos MV, personal communication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309-322.



Treatment landscape in multiple myeloma today: realistic situation

1 st line	ASCT	eligible	ASC	T ineligible	
I mie	 Anti-CD38 + PI + IMiD + dex ASCT Len / dara-len Anti-CD38 		dex P / RVd 3 + PI + IMiD + dex		
2 nd line	Based on sensiti	vity/refractorir	ess to daratumum	ab and lenalidomide	
	 Anti-CD38 + carfilzomib-dex Anti-CD38 + pom-dex 	 Pom-b Seline Carfilz 	oortezomib-dex xor-bortezomib-dex omib-dex	Cilta-cel	
3 rd line	Anti-CD38 + pom-dexElotuzumab-pom-dex	4 th line	Other drugs Melflufen Sel dev 	 BCMA-targeted therapy Ide-cel (CAR-T) 	GPRC5D-targeted therapyTalquetamab (<i>BsAb</i>)
	 Previous combos if pt is eligible Ide-cel based on KarMMa-3 		• Sel-dex	 Clita-cel (CAR-1) Teclistamab (BsAb) Elranatamab(BsAb) 	The label is for R/R MM after ≥3 PL of therapy including PI, IMiD and anti-CD38 and refractory to
ASCT, autologous stem cel dex, dexamethasone; GPR len, lenalidomide; PL, prio RVd, lenalidomide/bortezo	l transplant; BCMA, B cell maturation antigen; BsAb, bispecific antibody; cilta-cel, ciltacabta CSD, G-protein-coupled receptor class C group 5 member D; ide-cel, idecabtagene vicleuce l'ine; pom, pomalidomide; PI, proteasome inhibitor; pt, patient; R/R MM, relapsed/refract pmib/dexamethasone; sel, selinexor; VMP, bortezomib/melphalan/prednisolone.	igene autoleucel; dara, daratumumal l; IMiD, immunomodulatory drug; ory multiple myeloma;);	Mateos MV, personal com	the last line of therapy munication; Dimopoulos MA, et al. Ann Oncol. 2022;32(3):309–322



Selinexor influences multiple immune cells pathways

Schematic illustration of selinexor's influences on immune cells and immunotherapy



Selinexor is suggested to impact macrophages and tumor-associated macrophages (TAMs), myeloid-derived suppressor cells (MDSCs), natural killer (NK) cells, and T cells in the tumor microenvironment

Selinexor potentially sensitizes cancer cells to CAR-T cells and therapeutic antibodies*

*Selinexor SmPC does not specify guidance on its use in sequence with CAR-T cells.

CAR-T, chimeric antigen receptor T cell; ERK1/2, extracellular-signal regulated kinases 1/2; IC, immune checkpoint; MDSC, myeloid-derived suppressor cell; NK, natural killer; PD-1, programmed death 1; SIRPa, signal regulatory protein alpha; TAM, tumor-associated macrophage; Treg, regulatory T cell.

Tasbihi K, Bruns H. Cells. 2025;14(6):430.



Summary

Addressing unmet needs with a new mechanism of action: Role and place of XPO1 inhibition



Despite many novel therapeutics in R/R MM, **unmet needs** continue to exist and we need to understand **optimal sequencing** to **improve patient outcomes**

Available options in anti-CD38- and lenalidomide-refractory patients are limited and Kd and PVd have their own safety challenges

Selinexor introduces a novel MoA; the BOSTON trial validates its combination with bortezomib (SVd), and has an effective utility with double antiemetic prophylaxis and dose modifications



Selinexor is included in **worldwide guidelines** for the management of patients with myeloma after at least **1 prior line** in this competitive landscape:

- SVd showed benefit in the **lenalidomide-refractory population**, including survival benefit
- SVd is a viable treatment option that allows for the preservation of BCMA-TT for later lines*
- SVd can also be used after BCMA-TT in early lines, without compromising and potentially having a positive effect on subsequent lines of T-cell redirecting therapies*

*Statements not explicitly supported by or mentioned in selinexor SmPC. BCMA, B-cell maturation antigen; Kd, carfilzomib/dexamethasone; MM, multiple myeloma; MoA, mechanism of action; SVd, selinexor/bortezomib/dexamethasone

PVd, pomalidomide/ bortezomib/dexamethasone; R/R, relapsed/refractory; TT, targeted therapy; XPO1, exportin 1.



Streamlining therapy management: Practical strategies for enhanced treatment outcomes

Karthik Ramasamy Oxford University Hospitals NHS Foundation Trust, Oxford, UK





Disclosures

- Advisory board: AbbVie, Amgen, Adaptive Biotechnologies, Celgene, EUSA Pharma, GSK, Janssen, Karyopharm Therapeutics, Menarini Stemline, Pfizer, Sanofi, Takeda, and Recordati
- Honoraria: Adaptive Biotechnologies, Celgene (BMS), GSK, Janssen, Menarini Stemline, Sanofi, Takeda, Recordati, and Pfizer
- Research support: Amgen, Celgene, GSK, J&J, Sanofi, and Takeda



Key considerations for choice of relapse treatment



CAR-T, chimeric antigen receptor T cell; CRS, cytokine release syndrome; GI, gastrointestinal; ICANS, immune effector cell-associated neurotoxicity syndrome.

Devarakonda S, et al. Hematology Am Soc Hematol Educ Program. 2022;2022(1):560–568; Nathwani N, et al. Am Soc Clin Oncol Educ Book. 2021;41:358–375; Binder AF, et al. Front Immunol. 2023:14:1275329; Zhou X, et al. Haematologica. 2023;108:958–968.



Dismal outcomes for patients relapsing after daratumumab regimens



Previous treatment with DVd	Median prior lines of treatment: 2–3			
	n	Median PFS	95% CI	
Carfilzomib-based therapy	12	4.3	1.8–6.2	
Pomalidomide-based therapy	47	7.3	4.1–9.7	
IMiD + Pl based on carfilzomib and/or pomalidomide	4	4.5 0–NRY		
Previous treatment with DRd		Median prior	lines of treatment: 2–3	
Previous treatment with DRd	n	Median prior Median PFS	lines of treatment: 2–3 95% Cl	
Previous treatment with DRd Carfilzomib-based therapy	n 41	Median prior Median PFS 2.8	lines of treatment: 2–3 95% Cl 1.9–4.6	
Previous treatment with DRd Carfilzomib-based therapy Pomalidomide-based therapy	n 41 24	Median prior Median PFS 2.8 3.4	lines of treatment: 2–3 95% Cl 1.9–4.6 1.3–5.2	

The poor outcome of MM patients when standard regimens based on carfilzomib and/or pomalidomide are utilized directly after daratumumab-based therapy given in the relapsed setting. Novel therapies, including immune therapies, are urgently needed to improve the outcomes of these daratumumab-exposed patients.

CI, confidence interval; DRd, daratumumab/lenalidomide/dexamethasone; DVd, daratumumab/bortezomib/dexamethasone; IMiD, immunomodulatory drug; K, carfilzomib; MM, multiple myeloma; (m)PFS, (median) progression-free survival; NRY, not reached yet; PI, proteasome inhibitor; pom, pomalidomide.

LeBlanc R, et al. Eur J Haematol. 2023;111(5):815-823.



Dismal outcomes for patients relapsing after first line lenalidomide regimens

Greek experience¹

PFS and OS in second-line therapy, by lenalidomide-refractory status



German MYRIAM registry²

Response (from start of 2L, non SCT)	Relapsed (n=89)	Refractory (n=155)
ORR , n (%)	27 (30.3)	44 (28.4)
CR , n (%)	4 (4.5)	3 (1.9)
VGPR , n (%)	12 (13.5)	10 (6.5)

Survival (from start of 2L, non SCT)	Relapsed (n=89)	Refractory (n=155)
mPFS (95% CI) , mos	11.9 (6.0–25.1)	8.6 (4.8–10.4)
mOS (95% CI) , mos	NR	20.9 (15.1–37.9)
2-yr OS (95% Cl), %	63 (47–74)	-

CI, confidence interval; CR, complete response; L, line; (m)PFS, (median) progression-free survival; (m)OS, (median) overall survival; mos, months; NR, not reached; ORR, overall response rate; SCT, stem cell transplant; VGPR, very good partial response.

1. Kastritis E, et al. Clin Lymphoma Myeloma Leuk. 2024;24(7):468–477; 2. Reiser M, et al. Poster 909; presented at EHA 2024.



Poor PFS in lenalidomide-refractory and triple-class refractory patients



There is a need for novel and effective treatment options for use as early as 2L therapy for lenalidomide-refractory MM

Analysis of individual patient-level data from daratumumab clinical trials: APOLLO, CASTOR, CANDOR, EQUULEUS, ALCYONE, MAIA, GRIFFIN, POLLUX, and

CASSIOPEIA. *Reference for each factor was the absences of the refractory state.

2L, second-line; CI, confidence interval; HR, hazard ratio; L, line; LOT, line-of-therapy; mAb, monoclonal antibody; MM, multiple myeloma; OS, overall survival; PFS, progression-free survival; PI, proteasome inhibitor.

Yong K, et al. Eur J Cancer. 2025;215:115157.



PFS in proteasome inhibitor-naïve patients



The combination of selinexor and proteasome inhibitors has been shown to exert synergistic cytotoxicity in vitro and in vivo⁴

Data presented side by side for illustration purposes only – this is not a head-to-head comparison of these studies.

*Data presented are for patients without previous bortezomib treatment. Median follow-up was 11.9 months (Kd arm) and 11.1 months (Vd arm);

†After median follow-up of 15.9 months; ‡Median follow-up was 28.2 months (SVd) and 27.1 months (Vd); §intravenous administration.

CI, confidence interval; DRd, daratumumab/lenalidomide/dexamethasone; HR, hazard ratio; Kd, carfilzomib/dexamethasone; len, lenalidomide;

(m)PFS, (median) progression-free survival; (m)OS, (median) overall survival; NE, not estimable; PI, proteasome inhibitor;

PVd, pomalidomide/bortezomib/dexamethasone; SVd, selinexor/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone.



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1. Goldschmidt H, et al. Leuk Lymphoma. 2018;59(6):1364–1374; 2. Dimopoulos M, et al. Leukemia. 2021;35(6):1722–1731;

3. Mateos MV, et al. Eur J Haematol. 2024;113:242-252; 4. Kashyap T, et al. Oncotarget. 2016;7(48):78883-78895.

OPTIMISMM and ENDEAVOR: No benefit in survival





CI, confidence interval; HR, hazard ratio; IMiD, immunomodulatory drug; LEN, lenalidomide; (m)OS, (median) overall survival; PVd, pomalidomide/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone.

1. Richardson P, et al. *Eur J Haematol.* 2025;114(5):822–831; 2. Dimopoulos MA, et al. *Lancet Oncol.* 2017;18(10):1327–1337.



ENDEAVOR: Kd safety





The most common all grade AEs were anemia, diarrhea, pyrexia, hypertension, fatigue and dyspnoea The most common Grade 3/4 AEs were anemia, thrombocytopenia, hypertension and cardiotoxicity (cardiac failure and IHD)

AE, adverse event; IHD, ischemic heart disease; Kd, carfilzomib/dexamethasone; TEAE, treatment-emergent adverse event; Vd, bortezomib/dexamethasone.

Orlowski R, et al. Clin Lymphoma. 2019;2152–2650.



OPTIMISMM: PVd safety



AE, adverse event; GI, gastrointestinal; PVd, pomalidomide/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone.

Richardson P, et al. Eur J Haematol. 2025;114(5):822-831.



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Key considerations for choice of relapse treatment



CAR-T, chimeric antigen receptor T cell; CRS, cytokine release syndrome; GI, gastrointestinal; ICANS, Immune Effector Cell-Associated Neurotoxicity Syndrome.

Devarakonda S, et al. Hematology Am Soc Hematol Educ Program. 2022;2022(1):560–568; Nathwani N, et al. Am Soc Clin Oncol Educ Book. 2021;41:358–375; Binder AF, et al. Front Immunol. 2023:14:1275329; Zhou X, et al. Haematologica. 2023;108:958–968.



Patients who do not reach CAR-T administration have poorer disease control and outcomes

Single-center analysis of all patients assessed by MM specialist and waitlisted for ide-cel or cilta-cel

- Attrition rate (defined as death prior to infusion)
- N=185; March 2021 to March 2024
 - Of 138 patients who either received CAR-T or died, the overall attrition rate was 36%, declining from 44% in 2021–2022 to 15% in 2023–2024
 - OS was significantly longer for those receiving CAR-T vs. non-recipients (NR vs 9.4 months; p<0.001; median follow-up 17.2 months)



Primary reasons for attrition

(among evaluable patients who experienced CAR-T attrition, n=49)

CAR-T, chimeric antigen receptor T cell; MM, multiple myeloma; NR, not reached; OS, overall survival

Portuguese AJ, et al. Abstract #3772; presented at ASH 2024.



CAR-T therapy: Toxicities that require specific management

	Acute Toxicities
•	Cytokine-release syndrome
•	Cytopenias
•	Immune effector cell-associated
	neurotoxicity syndrome
-	Immune effector cell associated
	HLH-like syndrome
Gene	rally managed by treatment center
	Delayed Toxicities
-	B-cell aplasia/hypogammaglobulinemia
	Prolonged cytopenias
	Late infections
	Long-term neurologic events/movement and
	neurocognitive treatment-emergent AEs
	Transient cardiac toxicities

Secondary malignancies

Generally managed by primary oncologist (treatment center

or community setting)

*High-burden, high-risk products; older; comorbidities, etc.

AE, adverse event; CRS, cytokine release syndrome; G-CSF, granulocyte colony stimulating factor; HLH, hemophagocytic lymphohistiocytosis; HSV, herpes simplex virus; ICANS, immune effector cell-associated neurotoxicity syndrome; ICU, intensive care unit; IEC-HS, immune effector cell-associated HLH-like syndrome; PJP, pneumocystis jirovecii pneumonia; VZV, varicella-zoster virus.

Cohen AD, et al. Blood. 2023;141(3):219–230; Maus MV, J Immunother Cancer. 2020;8(2):e001511; Chakraborty R, et al. Transplant Cell Ther. 2021;27(3):222–229.



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Therapy management

Grade	Neurotoxicity (ICANS)	CRS + Neurotoxicity (ICANS)
1	Supportive care (± steroids)	Supportive care (± tocilizumab)*
2	Steroids (dexamethasone or methylprednisolone)	Tocilizumab + steroids (dexamethasone)
3	Steroids (dexamethasone)	Tocilizumab + steroids (dexamethasone)
4	High-dose steroids (methylprednisolone) ICU/critical care	Tocilizumab + high-dose steroids (methylprednisolone) ICU/critical care

Add anticonvulsants (levetiracetam, benzodiazepines) Low threshold for inpatient management (if outpatient at time of onset) Multidisciplinary team approach

Infection prophylaxis and vaccinations

- Recommended that outstanding vaccinations are completed ≥2 weeks prior to therapy start
- Consider G-CSF in patients with severe neutropenia
- Antibacterial and antifungal prophylaxis recommended for patients at high risk of infection; HSV/VZV and PJP prophylaxis recommended for all patients

Bispecific antibodies: Toxicities that need careful mitigation

Acute Toxicities

- Cytokine-release syndrome
- Immune effector cell–associated neurotoxicity syndrome
- Neurologic toxicity
- Infections
- Neutropenia
- Hypersensitivity or injection-site reactions

Generally managed by treatment center

Delayed Toxicities

- Hepatotoxicity
- Cytopenias
- Infections
- Neurologic toxicity

Generally managed by primary oncologist (treatment center or community setting)

Therapy management

Grade	Neurologic toxicity [*]	ICANS
1	Withhold until symptoms resolve or stabilize	Withhold until resolution
2	Withhold until symptoms improve to Grade ≤1	Withhold until resolution + steroids + 48-hr hospitalization with next dose
3	First occurrence: Grade 2 actions + supportive therapy Recurrence: Grade 4 actions	<i>First occurrence</i> : Grade 2 actions + supportive therapy + steroids <i>Recurrence</i> : Grade 4 actions + steroids
4 Permanently discontinue + steroids (dexamethasone or methylprednisolone); ICU/critical care		e + steroids (dexamethasone or blone); ICU/critical care
Add (levetiracet	anticonvulsants am, benzodiazepines)	ylaxis and vaccinations ed that outstanding vaccinations are completed

 Recommended that outstanding vaccinations are con ≥2 weeks prior to therapy start

- Consider G-CSF in patients with severe neutropenia
- Antibacterial and antifungal prophylaxis recommended for patients at high risk of infection; HSV/VZV and PJP prophylaxis recommended for all patients

ELREXFIO. European Medicines Agency. SmPC; Tecvayli. European Medicines Agency. SmPC; Talvey. European Medicines Agency. SmPC; Martin TG, et al. *Cancer*. 2023;129(13):2035–2046.

*Excluding ICANS.

CRS, cytokine release syndrome; G-CSF, granulocyte colony stimulating factor; HSV, herpes simplex virus;

ICANS, immune effector cell-associated neurotoxicity syndrome, ICU, intensive care unit; PJP, pneumocystis jirovecii pneumonia; VZV, varicella-zoster virus.



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Low threshold for inpatient

management

(if outpatient at time of onset)

Multidisciplinary team approach

Bispecific antibodies may require management of CRS, infections and hematologic-related events

AE	Teclis Phase 1/2 M	tamab ¹ ajesTEC-1 trial	Elranatamab² Phase 2 MagnetisMM-3 trial N=123		Talquetamab³ Phase 1/2 MonumenTAL-1 trial			ıl
N (%)	N=	165			405 μg/kg, N=30		800 μg/kg, N=44	
	Any Grade	Grade 3/4	Any Grade	Grade 3/4	Any Grade	Grade 3/4	Any Grade	Grade 3/4
CRS	119 (72.1)	1 (0.6)	71 (57.7)	0	23 (77)	1 (3)	35 (80)	0
Infections	126 (76.4)	74 (44.8)	86 (69.9)	49 (39.8)	14 (47)	2 (7)	15 (34)	3 (7)
Hematological AEs								
Neutropenia	117 (70.9)	106 (64.2)	60 (48.8)	60 (48.8)	20 (67)	18 (60)	16 (36)	14 (32)
Anemia	86 (52.1)	61 (37.0)	60 (48.8)	46 (37.4)	18 (60)	9 (30)	19 (43)	10 (23)
Thrombocytopenia	66 (40.0)	35 (21.2)	38 (30.9)	29 (23.6)	11 (37)	7 (23)	10 (23)	5 (11)
Decreased weight	-	_	-	_	9 (30)	0	14 (32)	1 (2)
Decreased appetite	_	_	41 (33.3)	1 (0.8)	6 (20)	1 (3)	9 (20)	0

Head-to-head studies have not been conducted. Cross-trial comparisons are not appropriate. AE, adverse event; CRS, cytokine release syndrome.

1. Moreau P, et al. N Engl J Med. 2022;387:495–505; 2. Lesokhin A, et al. Nat Med. 2023;29:2259–2267; 3. Chari A, et al. N Engl J Med. 2022;387:2232–2244.



Bispecific antibodies in the real world: Infection risk

- A retrospective, multicenter study in bispecific antibody-treated patients with MM in 14 IFM centers
- N=229 (153 [67%] teclistamab; 47 [20%] elranatamab; 29 [13%] talquetamab)
 - 142/229 (62%) patients presented at least one infection affecting patient management with a median number of infections per patient of 1.0 (range 1–7)
 - Of the 234 infectious events recorded:
 - 123 (53%) were Grade ≥3
 - 103 (44%) had an effect on the course of MM treatment, with discontinuation in 31 cases (13%)
 - 9% resulted in death
 - The infection rate was lower with GPRC5D-targeted bispecific antibody (51%) when compared with anti-BCMA agents (73%)
 - Use of corticosteroids for CRS/ICANS correlated with a higher risk of first infection (HR 2.01; 95% CI: 1.27–3.19)



CI, confidence interval; CRS, cytokine release syndrome; HR, hazard ratio; ICANS, immune effector cell-associated neurotoxicity; IFM, Intergroupe Francophone du Myelome; IVIG, intravenous immunoglobulin; LOT, line of therapy; MM, multiple myeloma.

Jourdes A, et al. Clin Microbiol Infect. 2024;30(6):764–771.



Toxicities and management: Belantamab mafodotin

Most frequent toxicities ^{1,2}				
 Ocular events 				
 Neutropenia 				
 Thrombocytopenia 				
 Infections 				

- To minimize the risk of ocular toxicity, patients should see an eye specialist for baseline assessment prior to starting treatment and prior to each subsequent dose to monitor for worsening eye symptoms³
- To help reduce ocular events, the provider should educate the patient on the use of preservative-free ophthalmic lubricants at least four times daily starting prior to the first treatment and continuing to the end of treatment³

Grade*	Recommendations ⁴
1 (mild superficial keratopathy, BCVA decline up to 1 line)	Continue belantamab without changes
2 (moderate superficial keratopathy, BCVA decline of 2–3 lines)	 Hold belantamab until Gr 2 becomes Gr 1 When Gr 1, resume belantamab at same dose
 3 (severe superficial keratopathy, BCVA decline of >3 lines) 	 Hold belantamab until Gr 3 becomes Gr 1 When Gr 1, resume belantamab at same dose
4 (corneal defects such as ulcer, BCVA worse than 20/200)	 Consider belantamab discontinuation Hold belantamab until Gr 4 becomes Gr 1 When Gr 1, may resume belantamab at reduced dose weighing risks vs. benefits

Management of toxicity includes **dosage modifications**, treatment **interruption or discontinuations** and preservative-free **artificial tears** along with close **ophthalmology and hematology-oncology** follow-ups³

*KVA scale (slit lamp, Snellen visual acuity); recommendations are derived from DREAMM-2 protocol. BCVA, best corrected visual acuity; Gr, grade; KVA, keratopathy and visual acuity. 1. Hungria V, et al. N Engl J Med. 2024;391(5):393–407; 2. Dimopoulos MA, et al. N Engl J Med. 2024;391(5):408–421; 3. Lu R, et al. J Adv Pract Oncol. 2023;1;14(4):300–306; 4. Wahab A, et al. Front Oncol. 2021;11:678634.



DREAMM-7: Ophthalmological assessment

20/20 20/200 Blurred vision was the most frequent ocular adverse reaction in the BVd arm, with 68% and 24% of patients experiencing all grades and Grade 3/4 events, respectively

Discontinuation due to any ocular events was 10%

BVd	Bilateral worsening of BCVA in patients with normal baseline 20/25 or better		
	20/50 or worse	20/200 or worse	
Patients, n/N (%)	84/242 (35)	5/242 (2)	
Time to onset of first event, median (range), days	79 (16–1320)	105 (47–304)	
Time to resolution of first event to baseline, median (range), days	64 (8–908)	87 (22–194)	
Time to improvement of first event, median (range), days	22 (6–257)	19 (8–26)	
First event resolved, n/N (%)	78/84 (93)	4/5 (80)	
First event improved, n/N (%)	81/84 (96)	5/5 (100)	
Follow-up ended with event ongoing, n/N (%)	2/84 (2)	0	

BCVA, best corrected visual acuity; BVd, belantamab mafodotin/bortezomib/dexamethasone; DVd, daratumumab/bortezomib/dexamethasone.

DREAMM-7; clinicaltrials.gov. Available at: https://clinicaltrials.gov/study/NCT04246047?term=NCT04266047?term=NCT04266047?term=NCT04266047?term=NCT04266047?term=NCT04266047?term=NCT04266047?term=NCT0426047?term=NCT0426047?term=NCT0426047?term=NCT04246047?term=NCT04246047?term=NCT04246047?term=NCT04246047?term=NCT04246047?term=NCT04266047?term=NC



Phase 3 DREAMM-7/8 studies: Summary

	Study design	Baseline characteristics	Median PFS, mos [*]	Median OS, mos [*]	ORR, % (95% CI)⁺	Safety profile [‡]	Belantamab-associated AEs
DREAMM-7 ¹	BVd (n=243) DVd (n=251) Primary endpoint: PFS Secondary endpoints: OS, DOR, MRD-negative status	 1 prior LOT: BVd, 51%; DVd, 50% High-risk cytogenetics: BVd, 28%; DVd, 27% LEN-refractory: BVd, 33%; DVd, 35% 	BVd, 36.6 vs. DVd, 13.4 HR 0.41 (95% CI: 0.31– 0.53); p<0.001	NR vs. NR At 18 months: BVd, 84% vs. DVd, 73% HR 0.57 (95% CI: 0.40–0.80)	BVd, 83% (77–87%) vs. DVd, 71% (65–77%)	AEs Any grade: 100%; Grade 3–4: 95% Serious AEs 50% Discontinuation due to AEs 26%	Ocular events Any grade: 79%; Grade 3–4: 34% Blurred vision Any grade: 66%; Grade 3–4: 22% Worsening vision from normal to: 20/50, 34%; 20/200, 2% Infections Any grade: 70%; Grade 3–4: 31%
DREAMM-8 ²	BPd (n=155) PVd (n=147) Primary endpoint: PFS Secondary endpoints: ORR, MRD negativity, DOR	 1 prior LOT: BPd, 53%; PVd, 52% High-risk cytogenetics: BPd, 34%; PVd, 32% LEN-refractory: BPd, 81%; PVd, 76% Anti-CD38 mAb- refractory: BPd, 23%; PVd, 24% 	BPd, NR vs. PVd, 12.7 HR 0.52 (95% CI: 0.37– 0.73); p<0.001	NR vs. NR 12-month estimate: BPd, 83% vs. PVd, 76% HR 0.77 (95% CI: 0.53–1.14)	BPd, 77% (70–84%) vs. PVd, 72% (64–79%)	AEs Any grade: 99%; Grade 3–4: 94% Serious AEs 63% Discontinuation due to AEs 15%	Ocular events Any grade: 89%; Grade 3–4: 43% Blurred vision Any grade: 79%; Grade 3–4: 17% Worsening vision from normal to: 20/50 34%; 20/200: 1% Infections Any grade: 82%; Grade 3–4: 49%

Median follow-up for DREAMM-7 was 28.2 months, and for DREAMM-8 was 21.8 months. *HRs estimated using the stratified Cox proportional hazards model and p-value was produced based on the 1-sided stratified log-rank test; †PR or better; [†]BVd arm in DREAMM-7.

AE, adverse event; BPd, belantamab mafodotin/pomalidomide/dexamethasone; BVd, belantamab mafodotin/bortezomib/dexamethasone; Cl, confidence interval; DOR, duration of response; DVd, daratumumab/bortezomib/dexamethasone; HR, hazard ratio; LEN, lenalidomide; LOT, line of therapy; mAb, monoclonal antibody; MRD, minimal residual disease; NR, not reached; ORR, overall response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PR, partial response; PVd, pomalidomide/bortezomib/dexamethasone.

1. Hungria V, et al. N Engl J Med. 2024;391(5):393–407; 2. Dimopoulos MA, et al. N Engl J Med. 2024;391:408–421.



Side effects related to selinexor are largely dosage and schedule dependent

Prophylactic use of antiemetics

Dose reductions





The supportive care guidance provided herein are prepared by FORUS Therapeutics Inc. and should not be relied upon as being complete or mandating any particular course of medical care. All treatment decisions are solely at the discretion of the treating physician or healthcare professional. Prophylactic antithrombotic, antimicrobial, or antiemetic agents are not required for treatment with selinexor but may be indicated in specific patients and/or when other anticancer drugs are administered. *Using dexamethasone together with aprepitant and/or netupitant + palonosetron may increase the effects of dexamethasone may need to be reduced⁵; Tside effects related to selinexor are largely dosage and schedule dependent and may be mitigated with prophylactic antiemetics and standard monitoring with dose adjustments as needed.

AE, adverse event; PO, by mouth; qam, every morning; qhs, every night; SVd, selinexor/bortezomib/dexamethasone; Vd, bortezomib/dexamethasone...

Selinexor. Product monograph. FORUS Therapeutics Inc. May 2022; 2. Gavriatopoulou M, et al. Leukemia. 2020;34:2430–2440;
 Olanzapine. Product monograph. Mylan Pharmaceuticals. February 2017; 4. Mikhael J, et al. Clin Lymphoma Myleloma Leuk. 2020;20:351–357;
 Aprepitant. Product monograph. Myck Canada Inc. January 2014; 6. Netupitant and palonosetron. Product monograph. Mright Therapeutics Inc. Navember 2022; 7. Magen H, et al. Clin Lymphoma Myleloma Leuk. 2020;20:2947–e955; 8. Lacey J, et al. Can Hematol Today. 2022;1(suppl 11);
 Orostici S, et al. Lancet. 2020;396:1563–1573; 10. Nexpovio (selinexor) Summary of Product Characteristics. Available at: https://www.ema.europa.eu/en/documents/product-information/nexpoviogeap-product-information_nen.pdf.



BOSTON: Selinexor dose reduction was associated with improved efficacy



ORR by dose reduction of selinexor in the SVd arm

• These subgroup analyses were exploratory in nature, not included in the study objectives, and do not control for type 1 error

• The analyses were not powered or adjusted for multiplicity to assess efficacy outcomes across these subgroups

*ORR is the proportion of patients who have a PR or better, before IRC-confirmed PD or initiating a new multiple myeloma treatment or crossover. CR, complete response; HR, hazard ratio; IRC, independent review committee; mPFS, median progression-free survival; ORR, overall response rate; PD, progressive disease; PFS, progression-free survival; SCR, stringent complete response; SVd, selinexor/bortezomib/dexamethasone; VGPR, very good partial response.

PFS by dose reduction in patients in the SVd arm

Jagannath S, et al. Abstract #3793; poster presented at ASH 2021.



BOSTON: Positive impact of selinexor dose reductions in LEN-refractory MM

BOSTON SVd arm: 53 LEN-refractory patients (35 had selinexor dose reductions and 18 did not)



Parameter	Patients with Sel dose reductions (n=35)	Patients without Sel dose reductions (n=18)	
Median time to best response (PR or better), mo (range)	2.7 (0.7–11.7)	1.4 (0.7–2.1)	
Median DOR, mo (95% Cl)	15.3 (12.2–NE)	4.2 (4.2–NE)	
Median TTNT, mo (95% Cl)	14.8 (13.4–26.7)	4.8 (4.2–NE)	
Median PFS, mo (95% Cl)	13.9 (6.9–NE)	5.1 (3.5–NE)	
Median OS, mo	26.7	24.6	
HR (95% CI)	0.91 (0.37–2.28)		

- Global health status QoL scores showed greater improvement in patients with dose reductions vs. patients without
- In patients with dose reductions, a **lower proportion** experienced **any-grade TRAEs** after the first dose reduction (except thrombocytopenia)

In LEN-refractory patients, selinexor dose reductions were associated with improvements in safety, efficacy, and quality of life and were consistent with the analysis of selinexor dose reductions for the ITT population

Cl, confidence interval; CR, complete response; DCR, duration of response; HR, hazard ratio; ITT, intention-to-treat; LEN, lenalidomide; MM, multiple myeloma; mo, months; NE, not estimable; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; sCR, stringent complete response; SVd, selinexor/bortezomib/dexamethasone; TRAE, treatment-related adverse events; TTINT, time to next treatment; VGPR, very good partial response

Delimpasi S, et al. Abstract #PF743; poster presentation at EHA 2025.



GI AEs: Manageable, non-cumulative with high resolution rate



Features of the BP program included²:

- Upfront use of antiemetics
- Suggested initiation of selinexor at a lower dose
- Active follow up with the patient

The BOSTON protocol required a prophylactic 5-HT3 antagonist to manage nausea but allowed for other interventions as required. AE, adverse event; BP, best practice; GI, gastrointestinal; IQR, interquartile range; MM, multiple myeloma; NR, not reached; R/R, relapsed refractory; TTF, time to treatment failure; Vd, bottezomib/dexamethasone.

1. Nooka AK, et al. Clin Lymphoma Myeloma Leuk. 2022;22(7):e526–e531; 2. Gordan LN, et al. Curr Oncol. 2024;31(1):501–510.



Key considerations for choice of relapse treatment



CAR-T, chimeric antigen receptor T cell; CRS, cytokine release syndrome; GI, gastrointestinal; ICANS, immune effector cell-associated neurotoxicity syndrome.

Devarakonda S, et al. Hematology Am Soc Hematol Educ Program. 2022;2022(1):560–568; Nathwani N, et al. Am Soc Clin Oncol Educ Book. 2021;41:358–375; Binder AF, et al. Front Immunol. 2023:14:1275329; Zhou X, et al. Haematologica. 2023;108:958–968.



T-cell differentiation / exhaustion in response to acute and chronic stimuli



Int, intermediate; mem pre, memory precursor; pre, precursor; prog, progenitor; SLECs, short-lived effector cells; TCF1, T cell factor 1; Term, terminally; Tex, exhausted T cell; TOX, thymocyte selection–associated HMG box protein.

Baessler A, Vignali DAA. Annu Rev Immunol. 2024;42:179-206.



Treatment-free intervals may counteract T-cell exhaustion

- Most bispecific antibody therapies have been developed with continuous therapy schedules, which can be detrimental to T-cell fitness¹
- Accumulating data suggest that treatmentfree intervals can be beneficial in functional and transcriptional T-cell rejuvenation¹



- Continuous exposure to a CD19xCD3 bispecific molecule induces T-cell exhaustion²
- Treatment-free intervals transcriptionally reprogram and functionally reinvigorate T cells²



Summary

Streamlining therapy management: Practical strategies for enhanced treatment outcomes



Considering factors related to the patient, treatment targets and AE profiles will help individual treatment decisions



Novel therapeutic options have specific toxicities such as CRS, ICANS, infections or ocular events that require careful management and follow up



Selinexor's clinical utility is maximized with double antiemetic prophylaxis and dose modifications



The effectiveness of T-cell therapies may depend on the status of a patient's immune system, including T-cell fitness or exhaustion

AE, adverse event; CRS, cytokine release syndrome; ICANS, immune effector cell-associated neurotoxicity



Bridging evidence and practice: Real-world insights and clinical case discussions

Elena Zamagni University of Bologna, Bologna, Italy





Disclosures

• Advisory board participation and consultancy: Janssen, BMS, Pfizer, Sanofi, Amgen, Oncopeptide, Menarini Stemline, and GSK



Novel strategies for R/R MM



*EMA approved 4L+ with previous exposure to a PI, IMiD and an anti-CD38 antibody; **EMA approved 4L+; *tEMA approved 3L+ with previous exposure to a PI, IMiD and an anti-CD38 antibody; #EMA approved 2L+ with previous exposure to a PI and IMID; *Monotherapy withdrawn from market, combination therapies not yet EMA approved. CRR-T, chimeric antigen receptor T cell; EMA, European Medicines Agency; IMID, immunomodulatory drug; L, Line; MM, multiple myeloma; R/R, relapsed/refractory.

Davis LN, et al. Cancers. 2021;13:1686.



IMWG recommendations for post-T-cell redirecting therapy

Post T-cell redirecting therapy

Non-TCRT approaches, including selinexor, may salvage relapses after BCMA-targeted CAR-T cell therapy*

Based on preclinical data, XPO1 inhibitors¹:

- Have less detrimental and more potentiating effect on T cells
- May promote T-cell fitness and reduce markers of T-cell exhaustion by modulating the immune microenvironment

In the STOMP clinical trial[†]:

- Selinexor-based triplet or quadruplet combination induced responses in 7 of 11 patients (64%) with prior BCMA-targeted therapy²
- Selinexor or selinexor-based combinations induced objective responses in 6 of 7 patients with relapse post BCMA-targeted CAR-T cells³

RECOMMENDATION¹

Use a therapy with a different mechanism of action or immunotherapy targeting a different antigen for patients progressing while receiving, or shortly after receiving, BCMA-targeting TCE

*Selinexor and selinexor-based combinations were one of five therapeutic options described by the authors. Post-TCRT salvage with non-TCRT therapies has not been systematically investigated; †Selinexor combinations in the STOMP trial are not all approved. BCMA, B-cell maturation antigen; CAR-T, chimeric antigen receptor T cell; IMWG, International Myeloma Working Group; MM, multiple myeloma; TCE, T-cell engager; TCRT, T-cell redirecting therapies.

1. Costa LJ, et al. *Leukemia*. 2025;39(3):543–554; 2. Baljevic M, et al. *EJHaem*. 2022;3(4):1270–1276; 3. Chari A, et al. *Br J Haematol*. 2020;189(4):e126–e130.


Outcomes of CAR-T cell therapy after prior BCMA-DT

- In a retrospective, multicenter observational study, the impact of prior BCMA-DT was evaluated in patients with R/R MM receiving ide-cel
- A total of **50 patients** with **prior BCMA-DT exposure** (**38 ADC, 7 bispecific antibodies, 5 CAR-T**) and 153 patients with no prior BCMA-DT were infused with ide-cel
- **Response rates to ide-cel** The prior BCMA-DT cohort had a lower ORR, ٠ **ORR 100%** median DoR (7.4 vs. 9.6 months; p=0.03), and (N=5) **ORR 88% ORR 86%** median PFS (3.2 months vs. 9.0 months; p=0.0002) 100% 100% (N=144) (N=7) **ORR 74%** compared to the cohort without prior BCMA-DT **ORR 68%** 80% 80% (N=49) (N=37) 60% 43% 48% 60% 29% 60% Treatment with ide-cel after prior Percent Percent 22% BCMA-DT resulted in a relatively high ORR, 40% 40% 20% 24% 20% 22% but significantly lower ORR, median DOR, 43% 20% 20% 24% and median PFS compared to patients not 22% 20% 17% 0% receiving a prior BCMA-DT ADC CAR T Bispecific Prior BCMA-DT No prior BCMA-DT PR VGPR ≥CR

ADC, antibody drug conjugate; BCMA, B-cell maturation antigen; CAR-T, chimeric antigen receptor T cell; CR, complete response; DOR, duration of response; DT, directed therapy; ide-cel, idecabtagene vicleucel; MM, multiple myeloma; ORR, overall response rate; PFS, progression-free survival; PR, partial response; R/R, relapsed/refractory; VGPR, very good partial response.



Ferreri CJ, et al. Blood Cancer J. 2023;13(1):117.

Prior exposure to belantamab adversely impacted efficacy outcomes with ide-cel therapy in late-line settings



- Patients with **prior exposure to belantamab** had significantly **inferior median PFS** (p=0.049) and **median OS** (p=0.036) vs. those without prior exposure to belantamab
- Among patients who received belantamab, median PFS was significantly lower in patients who had a partial response or better with belantamab vs. patients with no response (p=0.014)
- PFS and OS did not differ significantly based on the time from the last dose of belantamab to the ide-cel infusion

BCMA, B-cell maturation antigen; ide-cel, idecabtagene vicleucel; m, median; OS, overall survival; PFS, progression-free survival.



Teclistamab efficacy is strongly affected by prior exposure to BCMA-DT



- The prior BCMA-DT cohort had **worse ORR** (p=0.012) **and** ≥**VGPR** (p=0.009), but **similar** ≥**CR rates** (p=0.78) compared with those without prior BCMA-DT
- In MVA there was a strong signal for worse ORR in the prior BCMA-DT cohort; however, prior BCMA-DT was not independently associated with the likelihood of achieving response (HR 0.64, 95% CI: 0.41–1.01; p=0.057)

BCMA-DT, B-cell maturation antigen directed therapy; CI, confidence Interval; CR, complete response; DOR, duration of response; DT: directed therapy; HR, hazard ratio; MVA, multivariate analysis; ORR, overall response rate; PFS, progression-free survival; PR, partial response; VGPR, very good partial response.

Dima D, et al. Abstract #897; oral presentation at ASH 2024.



The optimal cut-off for time from last BCMA-DT exposure to teclistamab initiation is 8.7 months



Patients with >8.7 months between last exposure to prior BCMA-DT and teclistamab initiation had a **superior median PFS with teclistamab** (8.1 months, 95% CI: 4.6–11.7) vs. <8.7 months (2.5 months, 95% CI: 1.1–5.7; p=0.001)

BCMA-DT, B-cell maturation antigen directed therapy; CI, confidence interval; PFS, progression-free survival

Dima D, et al. Abstract #897; oral presentation at ASH 2024.



XPO1 inhibitors have potential to promote T-cell fitness and reduce T-cell exhaustion

XPO1 inhibitors:¹

- Have direct cytotoxic effects on tumor cells
- Decrease inflammation in infectious disease
- May facilitate a favorable immune microenvironment for effector T cells to combat T-cell exhaustion



"The **XPO1 inhibitors** selinexor and eltanexor **reduced T-cell exhaustion** in cell lines and animal models, suggesting their potential role in revitalizing these key effector cells¹"

XPO1, exportin 1.

"In addition to direct cytotoxicity against malignant cells, **XPO1** inhibitors may modulate the immune microenvironment to promote T-cell fitness and reduce markers of T-cell exhaustion²"

Leukemia	www.nature.com/leu
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MULTIPLE MYELOMA, GAMMOPATHIES	
International myeloma working group immunotherapy	
committee recommendation on sequencing immunotherapy	
for treatment of multiple myeloma	
Luciano J. Costa (b ¹⁵⁷ , Rahul Banerjee (b ² , Hira Mian (b ³ , Katja Weisel ⁴ , Susan Bal ¹ , Benjamin A. Derman (b ⁵ , Maung M. Htut ⁶ , Chandramouli Nagarajan ⁷ , Cesar Rodriguez ⁸ , Joshua Richter (b ⁸ , Matthew J. Frigault ⁹ , Jing C. Ye ¹⁰ , Niels W. C. J. van de Donk (b ¹¹ , Peter M. Voorhees (b ¹² , Benjamin Puliafito ⁵ , Nizar Bahlis (b ¹³ , Rakesh Popat (b ¹⁴ , Wee Joo Chng ¹⁵ , P. Joy Ho ¹⁶ , Gurbakhash Kaur ⁸ , Prashant Kaporo (b ¹⁷ , Juan Duo (¹⁶), Fredrik Schigevold (¹⁶), Lesus Berdeja (²⁰), Hermann Einsele (b ²¹), Adam D. Cohen ²² , Joseph Mikhael (b ^{23,24} , Yelak Biru ²⁴ , S. Vincent Rajkumar (b ¹⁷ , Yi Lin (b ¹⁷ , Thomas G. Martin ²⁵ and Ajai Chari ²⁵	

1. Binder AF, et al. Front Immunol. 2023:14:1275329; 2. Costa, LJ, et al. Leukemia. 2025;39(3):543-554.



Selinexor once or twice weekly dosing schedules allow for normal CD8+ T-cell functioning and development of anti-tumor immunity

- Many chemotherapeutics kill rapidly dividing cells, which includes cells of the immune system; effector CD8 T cells could easily be collateral damage in many combination regimens
- A preclinical study was conducted to examine the effects of selinexor on normal immune homeostasis in mice

In a model of implantable melanoma, decreased frequency of selinexor treatment restored immune homeostasis better than decreased dose (CD8 T cells comparable to vehicle treated mice) Bone marrow Spleen CD8 T cells Schedule Treatment Group CD8 T cells 3 14 p=n.s. 2.5 12 Vehicle Vehicle 3x week of CD45+ cells % CD45+ cells p=n.s. p=0.007 10 p=0.01 2 Selinexor 15 mg/kg 15x3 3x week 8 1.5 p=0.008 6 1 p=0.003 Selinexor 15 mg/kg 15x1 1x week 4 % 0.5 2 Selinexor 7.5 mg/kg 7.5x3 3x week 0 0 vehicle 15x3 15x1 7.5x3 vehicle 15x3 15x1 7.5x3

n.s., not significant.

Tyler P, et al. Mol Cancer Ther. 2017;16(3):428-439.



Patient history

Age: ~71 years

- IgGK MM (diagnosed in Oct 2018) with anemia, acute kidney injury and bone lesions, ISS 3, R-ISS 3 (t[14;16] and ampl1q in FISH)
- *Comorbidities*: **skin melanoma** treated surgically in 2023

1–4L treatment

- 1L: 4 cycles VTD (+sFLC removal) obtaining a VGPR and metabolic CR, followed by one ASCT in Mar 2019. In Aug 2019, biochemical relapse.
 - Adverse events: restless legs syndrome
- 2L: DRd (Sep 2019–Jan 2021); in Jan 2021, biochemical relapse and PET progression (skeletal lesion, possible EMD in liver but no biopsy undertaken due to bleeding risk)
 - Adverse events: Grade 3 HBV infection, Grade 3 salmonella infection
- 3L: 3 cycles Kd (Feb 2021–Apr 2021); in Apr 2021, biochemical relapse and MRI progression with paramedullary lesion in D9, requiring orthopedic intervention
- 4L: 2 cycles DPACE in spring/summer 2021, obtaining a SD

Real-world clinical case provided by speaker

Ampl1q, amplification of 1q; ASCT, autologous stem cell transplant; CR, complete response; DRd, daratumumab/lenalidomide/dexamethasone; DPACE,dexamethasone/cisplatin/doxorubicin/cyclophosphamide/etoposide; EMD, extramedullary MM; FISH, fluorescence in situ hybridization; HBV, Hepatitis B; IgGK, immunoglobulin G Kappa; Kd, carfilzomib/dexamethasone; L, line; (R-)ISS, (revised) international staging system; MM, multiple myeloma; MRI, magnetic resonance imaging; PET, positron emission tomography; SD, stable disease; sFLC, serum free light chains; VGPR, very good partial response; VTD, bortezomib/thalidomide/daratumumab.



Patient history

Age: ~71 years

- IgGK MIM (diagnosed in Oct 2018) with anemia, acute kidney injury and bone lesions, ISS 3, R-ISS 3 (t[14;16] and ampl1q in FISH)
- *Comorbidities*: **skin melanoma** treated surgically in 2023

Real-world clinical case provided by speaker

*Belantamab was fully approved in Italy at time of this case study; ¹Talquetamab obtained via compassionate-use program in Italy. Ampl1q, amplification of 1q; CRS, cytokine release syndrome; Elo, elotuzumab; FISH, fluorescence in situ hybridization; IgGK, immunoglobulin G Kappa; KVA, Keratopathy Visual Acuty; L, line; (R-)ISS, (revised) international staging system; MM, multiple myeloma; Pd, pomalidomide/dexamethasone; PET, positron emission tomography; PD, progressive disease; PR, partial response; VGPR, very good partial response.

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5-7L treatment

- 5L: 5 cycles EloPd (Sep 2021–Jan 2022) obtaining a VGPR; PET progression in Jan 2022
- 6L: 17 cycles belantamab mafodotin* (Mar 2022–May 2023), obtaining a metabolic and laboratory PR (assessed in Mar 2022); PET progression in May 2023, in the absence of lab PD (non-secretory)
 - Adverse events: Grade 3 H. influenzae pneumonia
 - Moderate KVA, resolved after skipping and delaying doses
- 7L: 15 cycles talquetamab⁺ (Jul 2023–Sep 2024), obtaining a metabolic PR (assessed in Oct 2023); PET progression in Sep 2024, yet non-secretory.
 - Adverse events: Grade 1 CRS, Grade 1 skin (painful rash with desquamation), oral (dysgeusia) and nail toxicity

SVd therapy*: started in September 2024

- Starting dose: 60 mg⁺ because of multiple prior treatments and last line with talquetamab, still with dysgeusia
- At the beginning of therapy, no lab abnormalities, PD in PET (left scapula, rib lesions, pelvic lesions, laterocervical lymph nodes and periscapular lymph nodes – the latter have been biopsied, but no diagnostic material was obtained)

SVd in 8L

- *Response*: after 3 cycles, partial response in PET: reduced uptake in the scapula and one of rib lesions, other rib and pelvic lesions no longer active along with lymph nodes; PET repeated after 6 months: complete metabolic response
- Adverse events: Grade 2 diarrhea starting from C1, requiring a dose reduction of selinexor from 60 mg to 40 mg from C5; hypertensive crisis (200/100 mmHg) in Apr 2025, requiring emergency care evaluation (brain CT scan, echocardiogram, troponin determinations normal)[‡]
- Therapy still ongoing
 - *Response*: non secretory pt, PET still in CMR, cycle 8 ongoing

Real-world clinical case provided by speaker.

*SVd obtained via Named Patient Program in Italy; ¹The recommended selinexor dose based on a 35-day cycle is 100 mg once weekly on Day 1 of each week. Dose modification should occur after adverse events in a prespecified stepwise manner (as outlined in selinexor SmPC); ¹Adverse events under control, 40 mg dose maintained.

C, cycle; CMR, complete metabolic response; CT, computed tomography; L, line; PD, progressive disease; PET, positron emission tomography; SVd, selinexor/bortezomib/dexamethasone.





SVd, selinexor/bortezomib/dexamethasone; TCR, triple class refractory.



Selinexor triplet regimens are effective in patients with R/R MM, especially those with prior exposure to an anti-CD38 mAb in the immediate prior LOT

• This study analyzed real-world treatment patterns and survival outcomes using a nationwide electronic health record-derived, deidentified database of patients with R/R MM treated with an eligible **selinexor-containing**, **triplet-based regimen**, including combinations with dexamethasone and pomalidomide, bortezomib, carfilzomib, or daratumumab



 Patients with previous exposure to anti-CD38 mAbs in the most recent regimen prior to the selinexor treatment had numerically higher survival outcomes (rwOS, 20.9 [95% CI: 13.4–NR] months; dPFS, 8.7 [95% CI: 5.8–11.7] months)



The median duration of follow-up for the study cohort was 9.4 months. Derived PFS is a calculated measure of time during which a patient does not have disease

progression based on data collected in a clinical trial or real-world setting

CI, confidence interval; dPFS, derived progression-free survival; LOT, line of therapy; mAb, monoclonal antibody; MM, multiple myeloma; NR, not reached; OS, overall survival; R/R, relapsed/refractory; rwOS, real-world OS.

Whiteley A, et al. Current Oncology 2025; 32(5):268



Assessment of post-DRd treatment options for MM in Italy: SVd as a preferred therapy from a multi-stakeholder perspective

- This study identified key decision criteria* for assessing 2L therapies for post-DRd MM from an Italian multi-stakeholder perspective (n=20, hematologists; n=1, methodologist; n=2, decision-makers; n=1, patient representative)
- Efficacy was the most critical criterion, indicating its priority role in the context of post-DRd treatment, followed by safety (peripheral neuropathy was identified as the most significant safety sub-criterion)

Based on elicited preferences, SVd was ranked as the most valuable therapy



Boccadoro M, et al. Abstract #P56; poster presentation at EMN Research Italy 2025;

Boccadoro M, et al. Abstract #PB2976; poster presentation at EHA 2025.

*Decision criteria were identified through a targeted literature review, discussed in a multi-stakeholder workshop, and finalized with a pragmatic literature review to assess data availability for each alternative. Stakeholders were asked to weigh the importance of each criterion and sub-criterion and to score performance levels through an online structured questionnaire.

DRd, daratumumab/lenalidomide/dexamethasone; Kd, carfilzomib/dexamethasone; L, line; MM, multiple myeloma;

PVd, pomalidomide/bortezomib,/dexamethasone; SVd, selinexor/ bortezomib/dexamethasone.



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Patient history

Age: ~79 years

- IgG lambda MM (diagnosed in May 2022)
- Treated based on slim-CRAB (2 MRI bone lesions, sFLC ratio >100, with evolving pattern); ISS 1, R-ISS 2 (t[4;14], amp1q21 in FISH)
- Comorbidities: Ischemic cardiomyopathy, treated with stent, positioned in 2016; hypertension; dyslipidaemia; septic arthritis in 2016 (need for a knee prothesis); prostate adenoma (treated with TURP)

- 1L treatment

23 cycles DRd, Jun 2022–May 2024

- **Daratumumab stopped in Apr 2024** for recurrent URIs and Grade 3 urinary tract infection
- Best response: PR after 9 cycles, but biochemical relapse from Mar 2024, PET negative in Mar 2024; change of therapy in May 2024 for progressive increase of disease parameters
 - Adverse events: Recurrent infections, ataxic gait (from the beginning of 2023), attributed to chronic cerebrovascular disease; post-traumatic femur fracture (Apr 2024)

Amp1q21, amplification of 1q21; DRd, daratumumab/lenalidomide/dexamethasone; FISH, fluorescence in situ hybridization; IgG, immunoglobulin G; (R-)ISS, (revised) international staging system; MM, multiple myeloma; MRI, magnetic resonance imaging; PET, positron emission tomography; PR, partial response; SFLC, serum free light chains; TURP, transurethral resection of the prostate; URI, upper respiratory infection.



Real-world clinical case provided by speaker.

Patient history

Age: ~79 years

- IgG lambda MM (diagnosed in May 2022)
- Treated based on slim-CRAB (2 MRI bone lesions, sFLC ratio >100, with evolving pattern); ISS 1, R-ISS 2 (t[4;14], amp1q21 in FISH)
- Comorbidities: Ischemic cardiomyopathy, treated with stent, positioned in 2016; hypertension; dyslipidaemia; septic arthritis in 2016 (need for a knee prothesis); prostate adenoma (treated with TURP)

- C 2L options

What to do in this elderly patient with double-refractory relapse and several comorbidities/ criteria for frailness?

- Not a lenalidomide-based triplet
- Not an anti-CD38 retreatment
- Not a clinical trial/immediate immunotherapy for recurrent infections/comorbidities
- Not PVd: Reserving pomalidomide for 3L

Selinexor-Vd in the Italian CNN access

Real-world clinical case provided by speaker.

Amp1q21, amplification of 1q21; FISH, fluorescence in situ hybridization; IgG, immunoglobulin G; (R-)ISS, (revised) international staging system; L, line; MM, multiple myeloma; MRI, magnetic resonance imaging; PVd, pomalidomide/bortezomib/dexamethasone; sFLC, serum free light chains; TURP, transurethral resection of the prostate; Vd, bortezomib/dexamethasone.



SVd therapy: started in Jun 2024

- At the beginning of therapy, M protein 1985 mg/dl, sFLC lambda 593 mg/l, ratio 94, Hb 11.9 g/dl, normal kidney function, proteinuria 188 mg/day with positive immunofixation; PET/CT scan negative (June 2024)
- Starting dose: Selinexor 80 mg* (age, frailty); bortezomib standard dose; dexamethasone 20 mg/week (age, recurrent infections)

SVd in 2L

- Response: **PR after 1 cycle** (after 1 cycle: • M protein 660 mg/dl, sFLC 110 mg/l); VGPR after 10 cycles: M protein 180 mg/dl, sFLC 85 mg/l, ratio k/l 9, lfu negative
 - Adverse events: Grade 3 pneumonia⁺ (Jan 2025) treated with IV antibiotics (amoxi/clav, then pip/tazo); for this reason, C2 undergone without bortezomib, resumed in C3. Introduced aprepitant and ondansetron since C1 with no nausea reported or no other Grade 1 side effects
- Therapy still ongoing, same dose
 - Response: VGPR, cycle 11 ongoing

Real-world clinical case provided by speaker

*The recommended selinexor dose based on a 35-day cycle is 100 mg once weekly on Day 1 of each week. Dose modification should occur after adverse events in a prespecified stepwise manner (as outlined in selinexor SmPC); †Resolved after treatment.

Amoxi/clav. amoxicillin/clavulanate; C, cycle; CT, computed tomography; Hb, hemoglobin; IV, intravenous; L, line; PET, positron emission tomography; pip/tazo, piperacillin/tazobactam;

PR, partial response; SFLC, serum free light chains; SmPC, summary of product characteristics; SVd, selinexor/bortezomib/dexamethasone; VGPR, very good partial response







SVd is effective in second line after double refractoriness



SVd is feasible and **well tolerated** in **elderly/frail patients**



SVd reserves the use of **subsequent anti BCMA/GPRC5D T-cell redirecting therapies**, in case patient fitness improves*

*Based on speaker opinion/not explicitly stated in selinexor SmPC. BCMA, B-cell maturation antigen; GPRC5D, G-protein-coupled receptor class C group 5 member D; SVd, selinexor/bortezomib/dexamethasone.



GIMEMA: Observational study on the combination of selinexor with bortezomib and dexamethasone for the treatment of MM patients



Study design: Multicenter, observational, retrospective and prospective (approximately 30 centers involved and 159 patients to be enrolled)



Inclusion criteria: Adult patients with active MM, relapse after **1–3 lines of therapy**, treatment with SVd at the time the combination has entered clinical practice in Italy (AIFA authorization in Aug 2024), prior treatment with and refractoriness to lenalidomide



Primary objective and endpoint: Effectiveness of SVd, as measured by 12-month PFS



Secondary objectives and endpoints: Hematologic response rate; safety and tolerability profile; second PFS; duration of response; OS; time to progression and time to next therapy; minimal residual disease in a subgroup of patients with available data

GIMEMA trial is open for enrolment. AIFA, Agenzia Italiana del Farmaco; MM, multiple myeloma; OS, overall survival; PFS, progression-free survival; SVd, selinexor/bortezomib/dexamethasone

https://clinicaltrials.gov/study/NCT06933277. Accessed 09 June 2025.



Summary

Bridging evidence and practice: Real-world insights and clinical case discussions



Incorporating selinexor combinations as T-cell sparing regimens can optimize sequencing and improve outcomes following prior BCMA-targeted therapies



SVd demonstrated **efficacy** in a **penta-refractory patient** who had received multiple prior lines of therapy, including T-cell redirecting therapy (*Clinical case #1*)



SVd has shown **effectiveness** as a **second-line treatment** after double lenalidomide and daratumumab refractoriness, and may enable subsequent use of T-cell redirecting therapies (*Clinical case #2*)



The ongoing **GIMEMA** observational study aims to collect data on **SVd** in 159 patients **refractory to lenalidomide**, who have received **1–3 prior lines** of therapy

BCMA, B-cell maturation antigen; CAR-T, chimeric antigen receptor T cell; MM, multiple myeloma; SVd, selinexor/bortezomib/dexamethasone.



Q&A and closing remarks

María Victoria Mateos University of Salamanca, Salamanca, Spain



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