



GIORNATE EMATOLOGICHE VICENTINE

X edizione

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Palazzo Bonin Longare - Vicenza

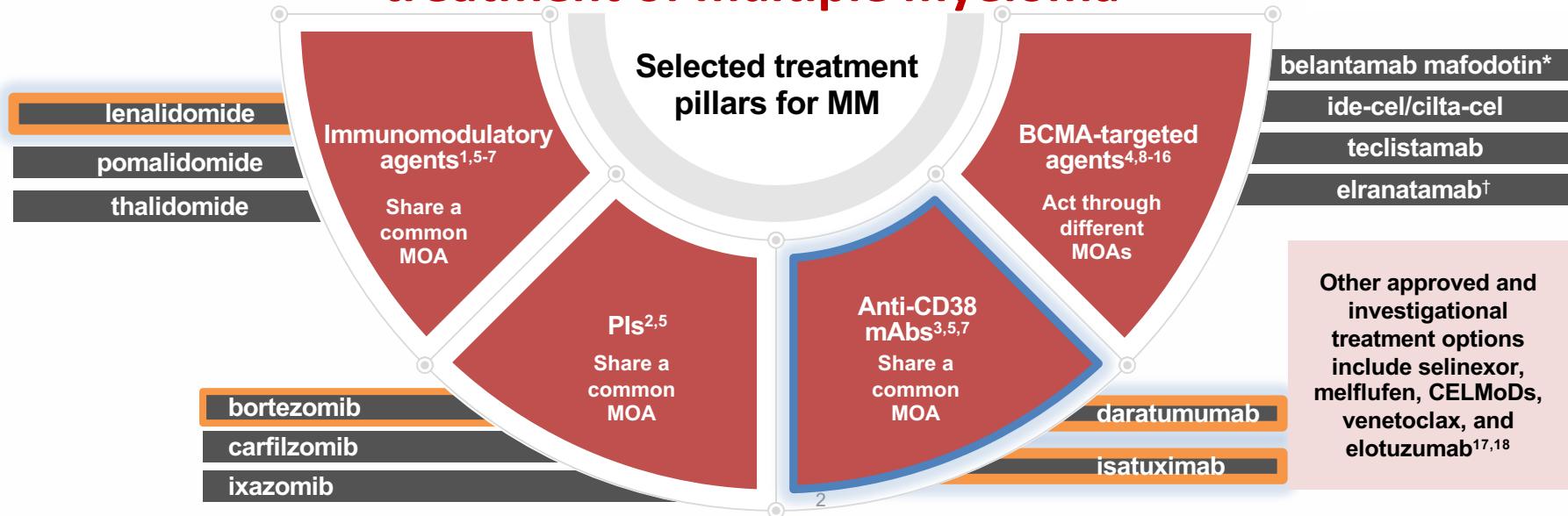
La progressione post-autotripianto – strategie attuali

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Four treatment pillars are currently key backbones for the treatment of multiple myeloma¹⁻⁴



Anti-CD38 mAbs and lenalidomide are increasingly used in the front-line setting with impressive efficacy, however, patients will relapse at variable intervals after diagnosis¹⁷⁻²⁰

*Approved in the European Union only.^{8,9} †Approved in the US only.¹⁶

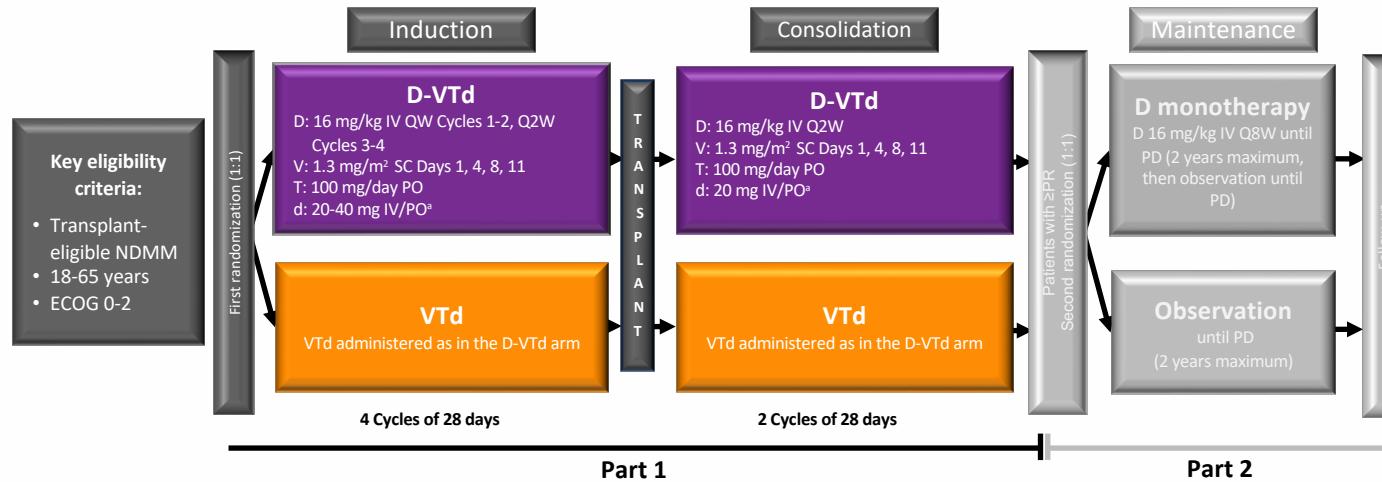
BCMA, B-cell maturation antigen; CD, cluster of differentiation; CELMoD, cereblon E3 ligase modulator; cilta-cel, cilacitabagene autoleucel; ide-cel, idecabtagene vicleucel; mAb, monoclonal antibody; MM, multiple myeloma; MOA, mechanism of action; PI, proteasome inhibitor. 1. Holstein A, McCarthy PL. *Drugs*. 2017;77(5):505-520. 2. Nunes AT, Annunziata CM. *Semin Oncol*. Published online April 12, 2018. doi:10.1053/j.seminoncol.2018.01.004 3. Gozzetti A et al. *Hum Vaccin Immunother*. 2022;18(5):2052658. doi:10.1080/21645515.2022.2052658 4. Shah N et al. *Leukemia*. 2020;34(4):985-1005. 5. Shah N et al. *Clin Drug Investig*. 2021;41(3):201-210. 6. Richardson PG et al. *Blood*. 2014;123(12):1826-1832. 7. Richardson PG et al. *Blood Cancer J*. Published online July 12, 2023. doi:10.21203/rs.3.rs-3117230/v1 8. BLNREP. Summary of Product Characteristics. GlaxoSmithKline (Ireland) Limited; 2023. 9. BLNREP. Dear health care provider letter. GlaxoSmithKline; 2022. 10. Abecma. Prescribing Information. Bristol Myers Squibb; 2021. 11. Abecma. Summary of Product Characteristics. Bristol Myers Squibb Pharma EEIG; 2021. 12. Carvykti. Prescribing Information. Janssen Biotech, Inc.; 2022. 13. Carvykti. Summary of Product Characteristics. Janssen-Cilag International NV; 2022. 14. Tecvayli. Prescribing Information. Janssen Biotech, Inc.; 2022. 15. Tecvayli. Summary of Product Characteristics. Janssen-Cilag International NV; 2022. 16. Elexriflo. Prescribing Information. Pfizer Inc.; 2023. 17. Dimopoulos MA et al. *Ann Oncol*. 2021;32(3):309-322. 18. Bhatt P et al. *Curr Oncol*. 2023;30(2):2322-2347. 19. Kumar S et al. *Blood Cancer J*. 2022;12(6):98. doi:10.1038/s41408-022-00695-5 20. Facon T et al. *N Engl J Med*. 2019;380(22):2104-2115.

First-line treatment Transplant eligible multiple myeloma

- ***Global strategy*** ***Induction → ASCT and conditioning → consolidation → maintenance***
- ***2 major changes in first-line treatment***
 - ***incorporation of anti-CD38 MoAb***
 - ***lenalidomide is increasingly be used***

CASSIOPEIA Study Design

Phase 3 study of D-VTd versus VTd in transplant-eligible NDMM (N = 1,085), 111 sites from 9/2015 to 8/2017



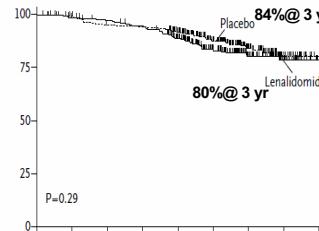
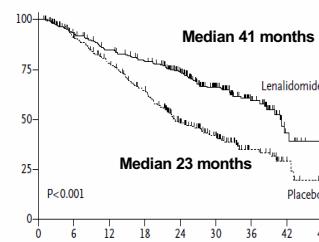
D-VTd, daratumumab/bortezomib/thalidomide/dexamethasone; VTd, bortezomib/thalidomide/dexamethasone; ECOG, Eastern Cooperative Oncology Group; IV, intravenous; QW, weekly; Q2W, every 2 weeks; SC, subcutaneous; PO, oral; PR, partial response; Q8W, every 8 weeks; PD, progressive disease.

^aDexamethasone 40 mg on Days 1, 2, 8, 9, 15, 16, 22, 23 of Cycles 1-2 and Days 1 & 2 of Cycles 3-4; 20 mg on Days 8, 9, 15, 16 of Cycles 3-4; 20 mg on Days 1, 2, 8, 9, 15, 16 of Cycles 5-6.

Lenalidomide maintenance

IFM 05-02

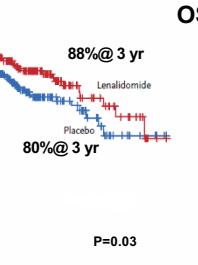
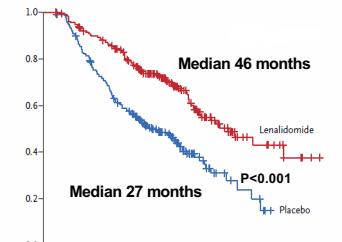
Median follow-up 45 months



Attal M, et al. NEJM 2012;366:1782

CALGB 100104

Median follow-up 34 months

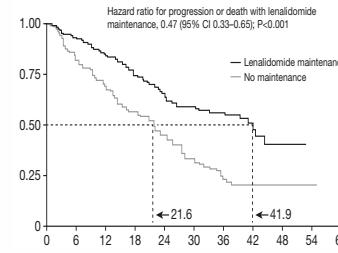


McCarthy PL, et al. NEJM. 2012;366:1770

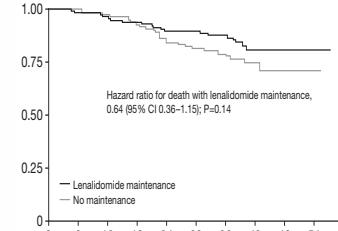
GIMEMA MM RV 209

Median follow-up 51 months

PFS



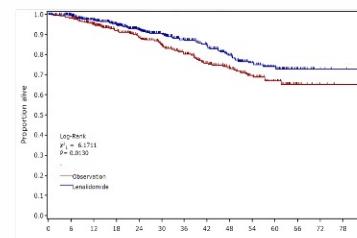
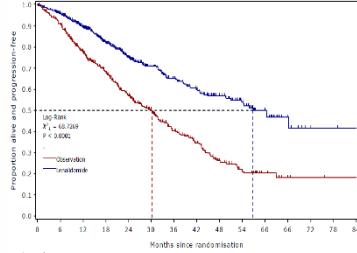
OS



Palumbo A, et al. NEJM 2014;371:10

Myeloma XI

Median follow-up 31 months



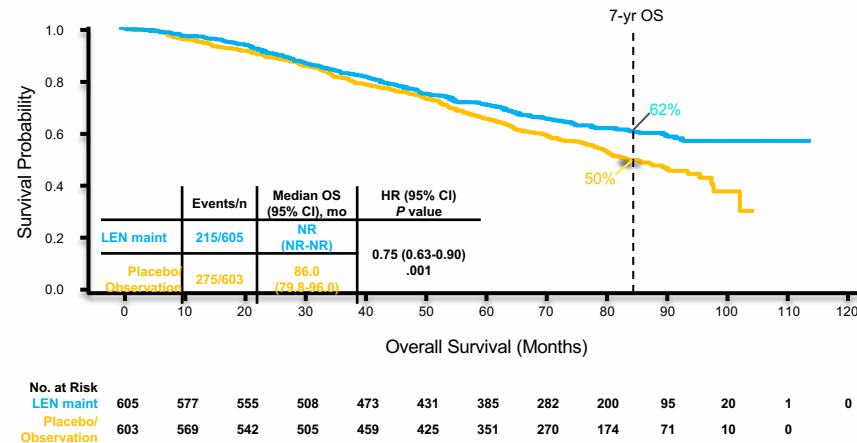
Jackson G, et al. ASH 2017 (Abs 436)

Meta-analysis of 3 lenalidomide maintenance trials

Overall Survival:

Median Follow-Up of 80 Months

There is a 25% reduction in risk of death, representing an estimated 2.4-year increase in median survival^a



McCarthy P et al. IMW Delhi 2017

Multiple myeloma

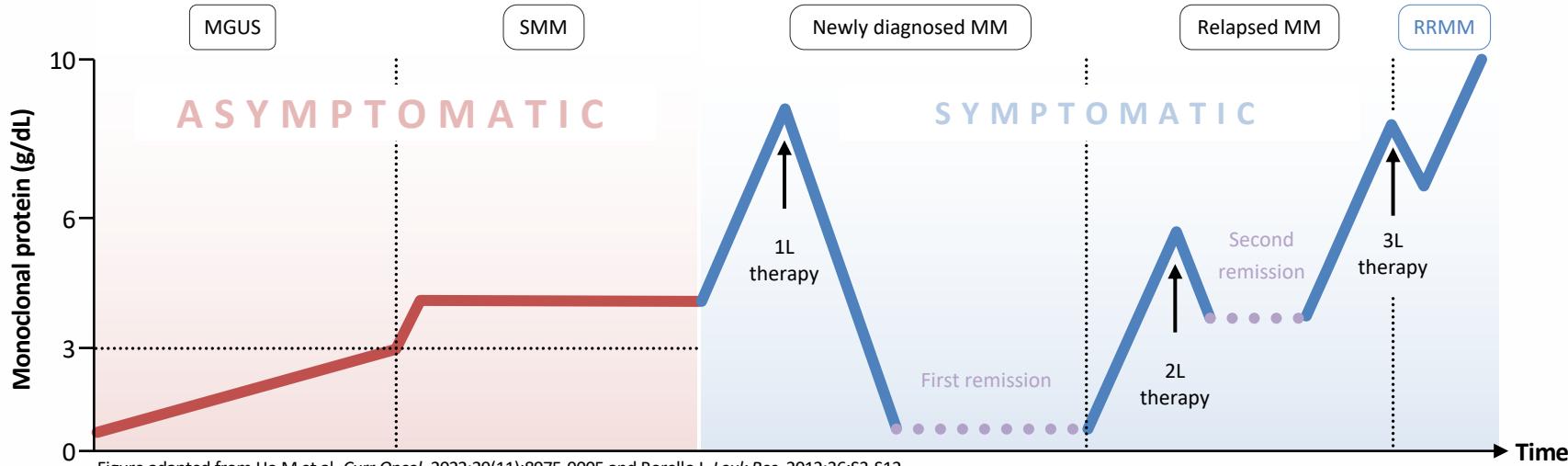
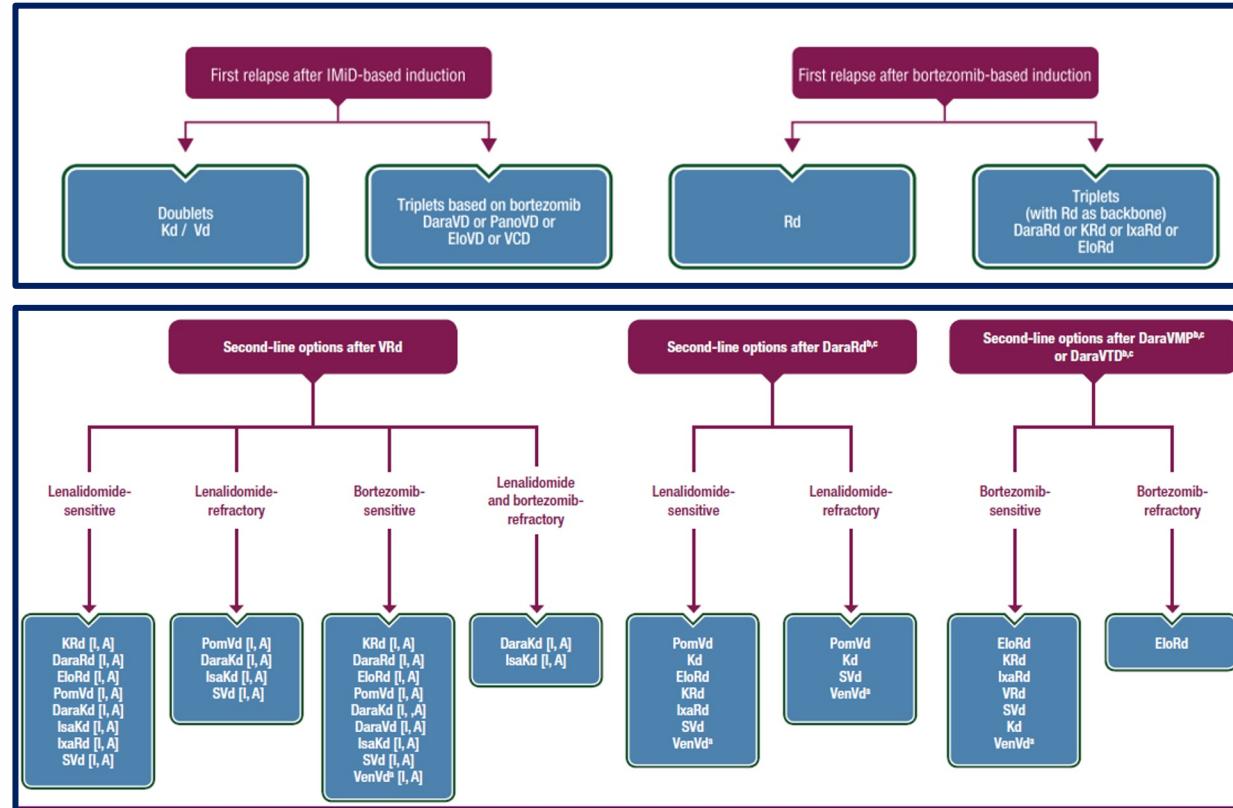


Figure adapted from Ho M et al. *Curr Oncol.* 2022;29(11):8975-9005 and Borello I. *Leuk Res.* 2012;36:S3-S12.

- 1L, first-line; 2L, second-line; 3L, third-line; MGUS, monoclonal gammopathy of undetermined significance; MM, multiple myeloma; RRMM, relapsed/refractory multiple myeloma; SMM, smoldering multiple myeloma.
- 1. Facon T et al. *N Engl J Med.* 2019;380(22):2104-2115. 2. Dimopoulos MA et al. *Ann Oncol.* 2021;32(3):309-322. 3. Dima D et al. *Cancer Manag Res.* 2020;12:7891-7903. 4. Ho M et al. *Curr Oncol.* 2022;29(11):8975-9005. 5. Bonello F et al. *Cancers (Basel).* 2020;12(11):3106. doi:10.3390/cancers12113106 6. Borello I. *Leuk Res.* 2012;36:S3-S12.

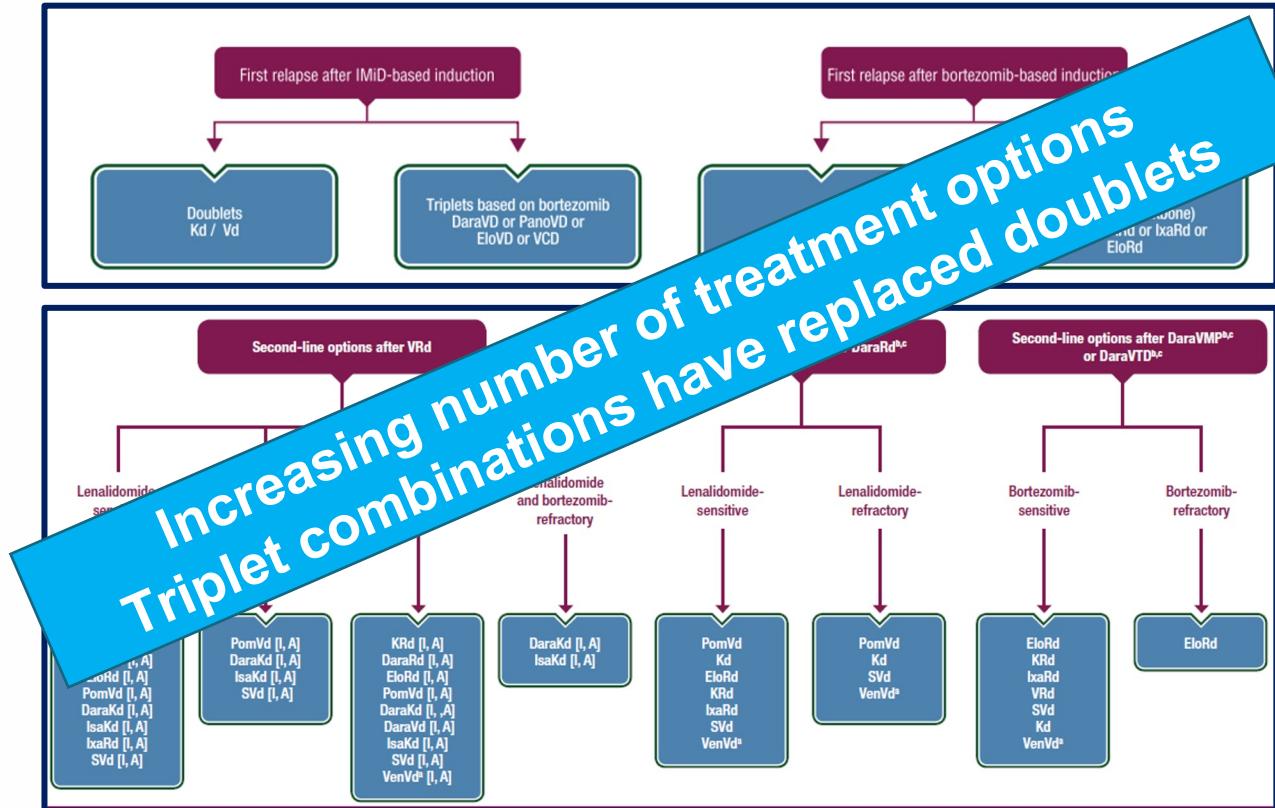
Treatment options at first relapse: EHA-ESMO guidelines



C, cyclophosphamide; d/D, dexamethasone; Dara, daratumumab; Elo, elotuzumab; IMiD, immunomodulatory drug; Isa, isatuximab; Ixa, ixazomib; K, carfilzomib; M, melphalan; P, prednisone; Pano, panobinostat; Pom, pomalidomide; R, lenalidomide; S, selinexor; T, thalidomide; V, bortezomib; Ven, venetoclax.

1. Moreau P, et al. Ann Oncol 2017;28:iv52-iv61; 2. Dimopoulos MA, et al. Ann Oncol 2021;32:309-322.

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1. Moreau P, et al. Ann Oncol 2017;28:iv52-iv61; 2. Dimopoulos MA, et al. Ann Oncol 2021;32:309-322.

Treatment optimisation for patients with relapsed MM¹

- Disease-related characteristics:
 - Biochemical vs symptomatic relapse
 - High-risk vs standard-risk FISH
 - Absence vs presence of extramedullary disease
- Patient-related factors:
 - Fit or frail
 - Comorbidities
 - Patient preference
- Treatment history:
 - Type of drugs administered
 - Fixed duration treatment or until disease progression
 - Type and reversibility of adverse events

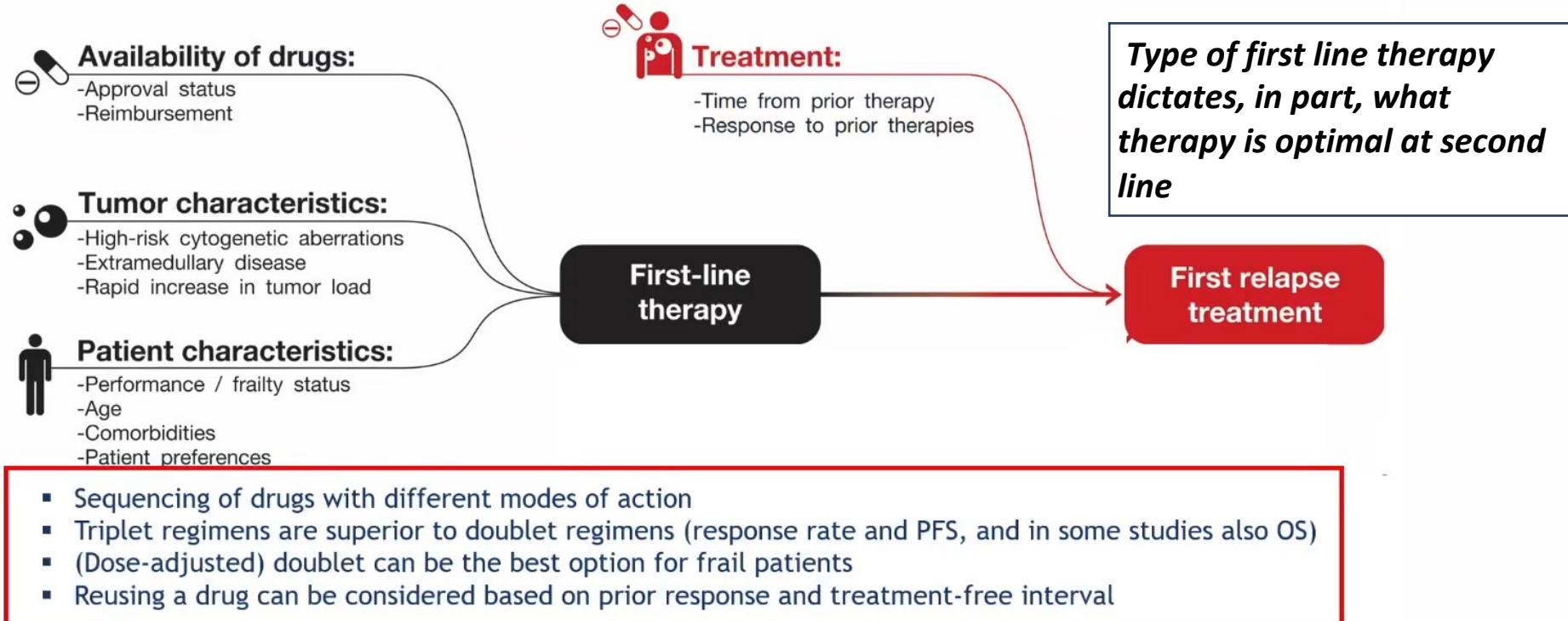
FDA, EMA, AIFA REGULATORY APPROVAL

FISH, fluorescence in situ hybridisation.

1. Adapted from Moreau P, et al. Lancet Oncol 2021;22:e105–118.

First Relapse

- Treatment selection dependent on patient-, tumor-, and treatment-related factors



Treatment options ('triplets') at first relapse¹



d, dexamethasone; dara, daratumumab; elo, elotuzumab; ixa, ixazomib; K, carfilzomib; R, lenalidomide.

1. Adapted from Moreau P, et al. Lancet Oncol 2021;22:e105–118 and Dimopoulos MA, et al. Ann Oncol 2021;32:309–322.

Lenalidomide-based regimens at first relapse

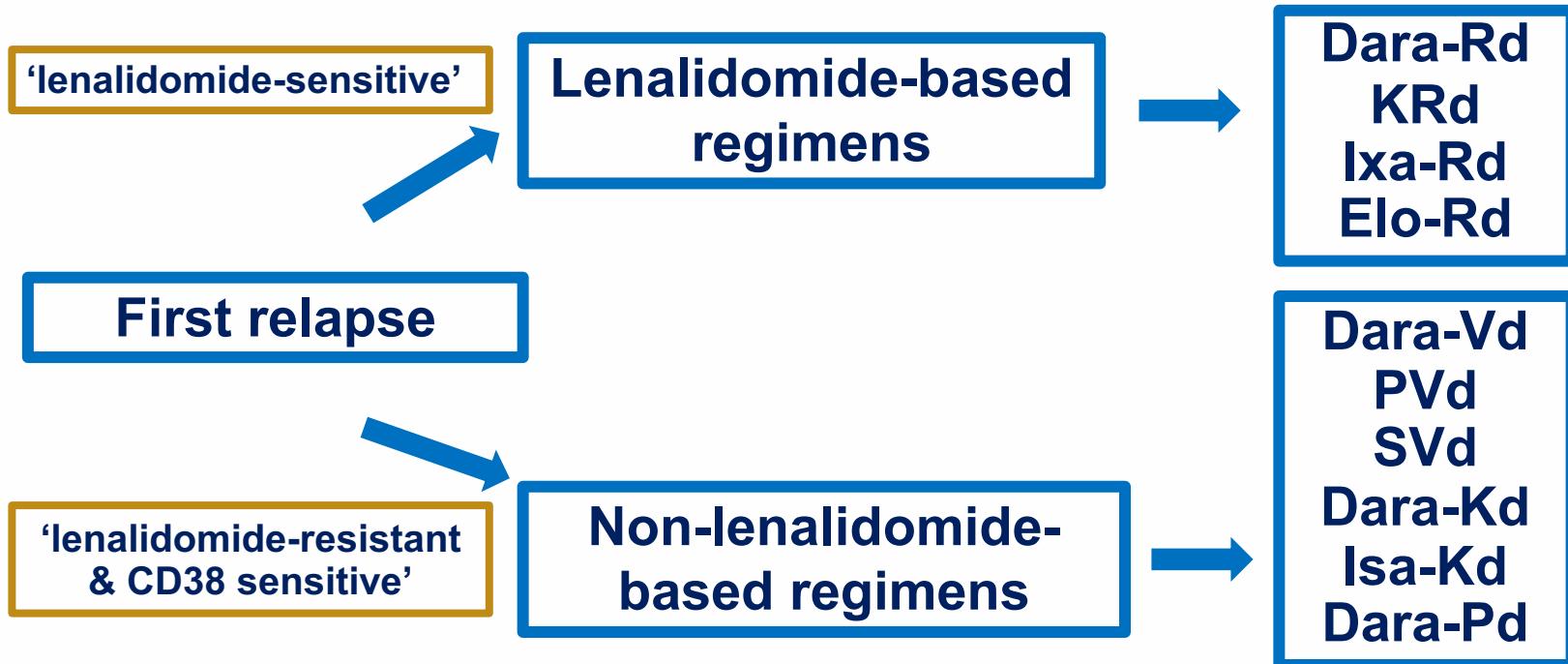
	mPFS (months)	mOS (months)
Dara-Rd vs Rd (POLLUX)	53.3 vs 19.6 (HR: 0.42; p<0.0001) ^{1,2}	77.8 vs 57.7 (HR: 0.75) ³
KRd vs Rd (ASPIRE)	29.6 vs 17.6 (HR: 0.71; p=0.001) ⁴	47.3 vs 35.9 (HR: 0.81) ⁵
Ixa-Rd vs Rd (TOURMALINE-MM1)	20.6 vs 16.6 (HR: 0.88; p=0.41) ⁶	53.6 vs 51.6 (HR: 0.94; p=0.50)* ⁷
Elo-Rd vs Rd (ELOQUENT-2)	Not reported (HR: 0.75) ⁸	48.3 vs 39.6 (HR: 0.82; p=0.04)* ⁹

*Results only reported for the global patient population.

d, dexamethasone; dara, daratumumab; elo, elotuzumab; HR, hazard ratio; ixa, ixazomib; K, carfilzomib; (m)OS, (median) overall survival; (m)PFS, (median) progression-free survival; NR, not reached; R, lenalidomide.

1. Bahlis NJ, et al. Leukemia 2020;34:1875–1884; 2. Kaufman JL, et al. Blood 2019;134 (Supplement 1):1866; 3. Dimopoulos MA, et al. J Clin Oncol 2023;41:5190–5199; 4. Dimopoulos MA, et al. Blood Cancer J 2017;7:e554; 5. Siegel DS, et al. J Clin Oncol 2018;36:728–734; 6. Mateos MV, et al. Haematologica 2017;102:1767–1775; 7. Richardson PG, et al. J Clin Oncol 2021;39:2430–2442; 8. Lonial S, et al. N Engl J Med 2015;373:621–631; 9. Dimopoulos MA, et al. Blood Cancer J 2020;10:91.

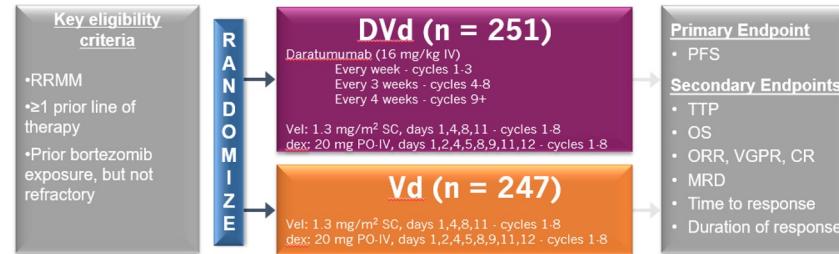
Treatment options ('triplets') at first relapse¹



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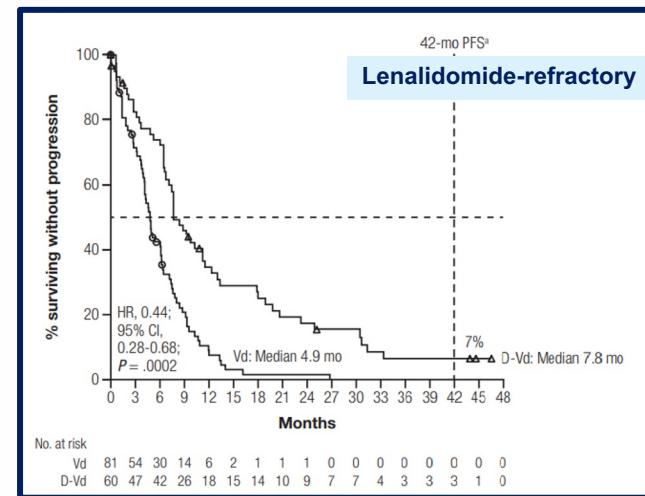
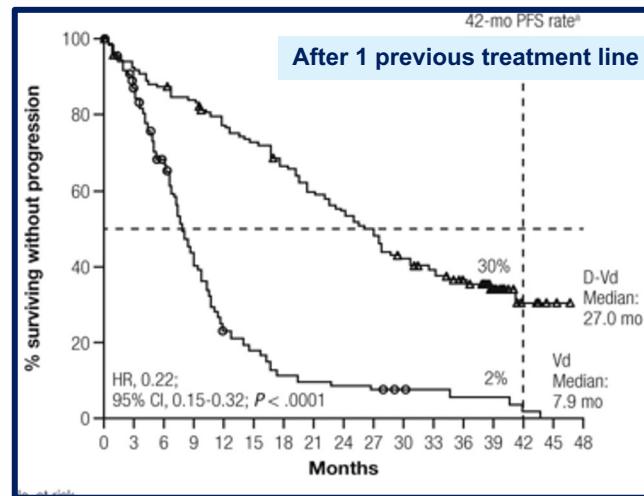
CASTOR: Dara-Vd vs Vd for relapsed MM^{1,2}



1-3 prior lines (median 2)

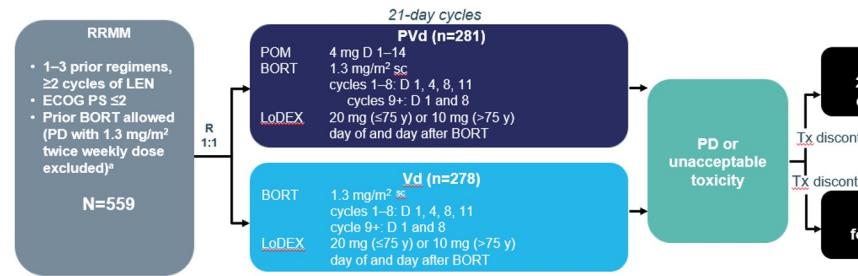
24% (Dara-Vd) and 33% (Vd) len-refractory

PFS 16.7 months vs 7.1 months, HR: 0.31



AIFA approved from II line

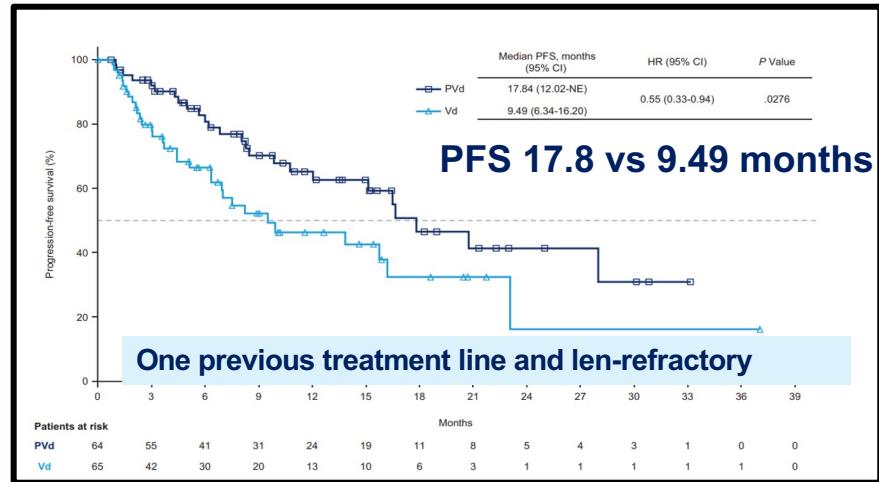
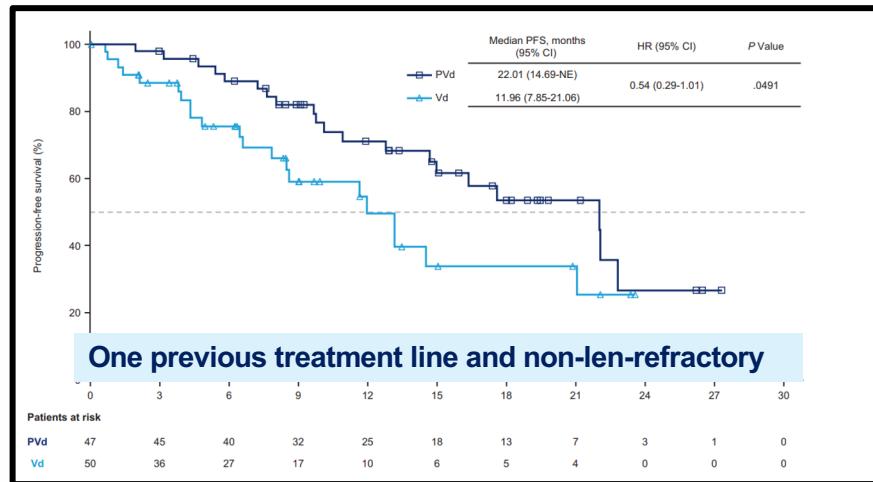
OPTIMISMM: PVd vs Vd for relapsed MM^{1,2}



1–3 prior lines (median 2)

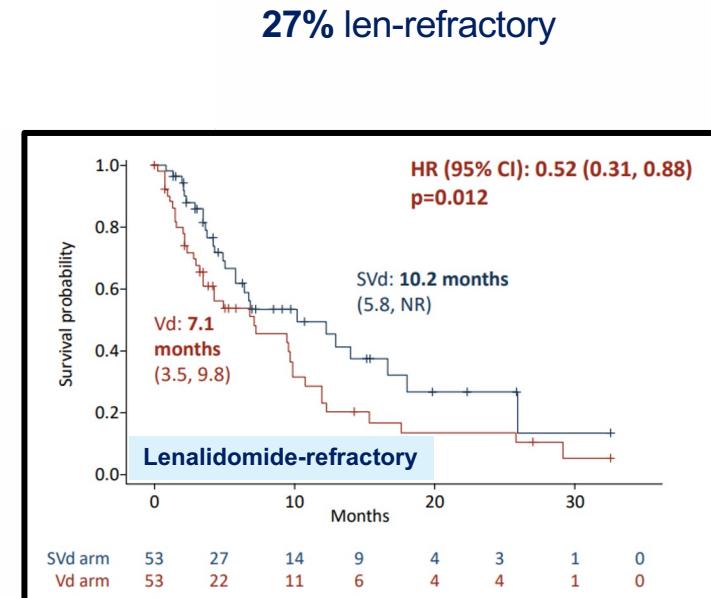
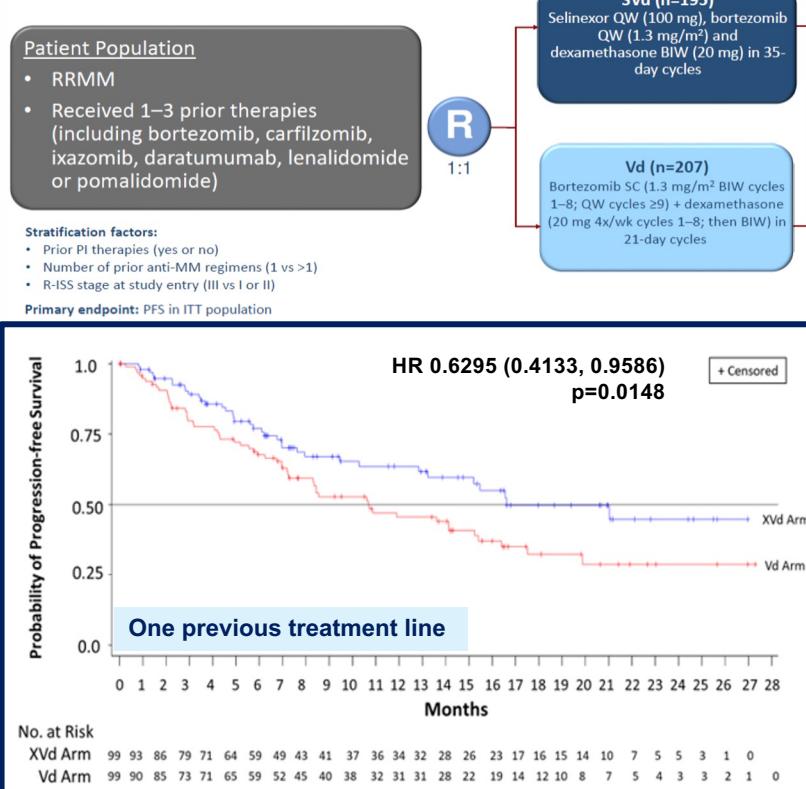
71% (PVd) and 69% (Vd) len-refractory¹

PFS 11.2 months vs 7 months, HR 0.61



AIFA approved from II line (after lenalidomide)

BOSTON: SVd vs Vd for relapsed MM^{1–3}

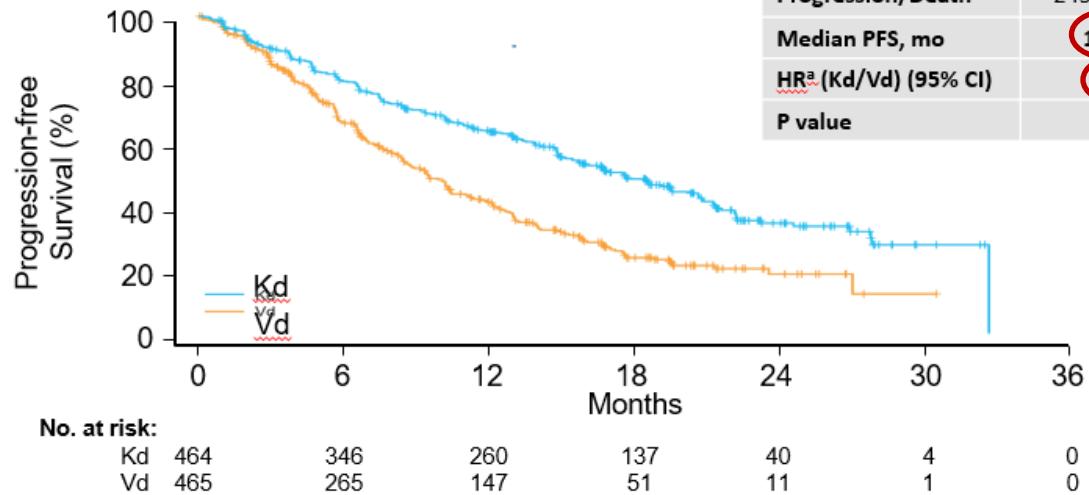


FDA/EMA approved from 2L, AIFA awaited

ENDEAVOR phase 3 trial: Kd vs Vd

Pts characteristics Kd vs Vd:

- ✓ Median age 65y in both arms
- ✓ ISS II-III 56% in both arms
- ✓ HR cytogenetic: 21% and 24%
- ✓ 1-3 prior line (median 2)
- ✓ lena exposed 38% (refractory 24%)



Median FU 37 months

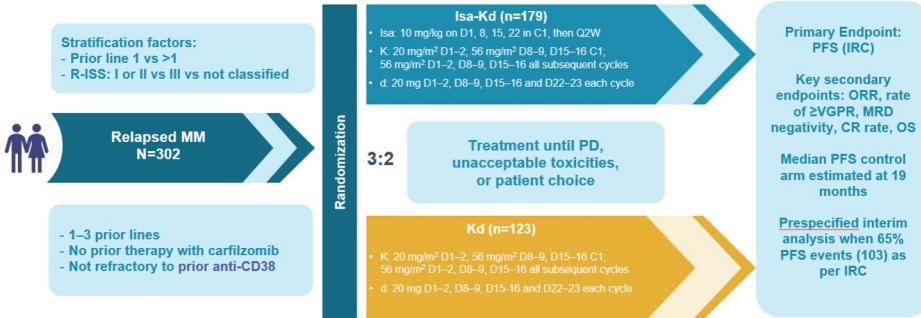
Kd > Vd in response, PFS and OS

	Kd (N = 464) n (%)	Vd (N = 465) n (%)
Progression/Death	245 (52.8)	298 (64.1)
Median PFS, mo	17.6	9.4
HR ^a (Kd/Vd) (95% CI)	0.53 (0.44 – 0.63)	
P value	<0.0001	

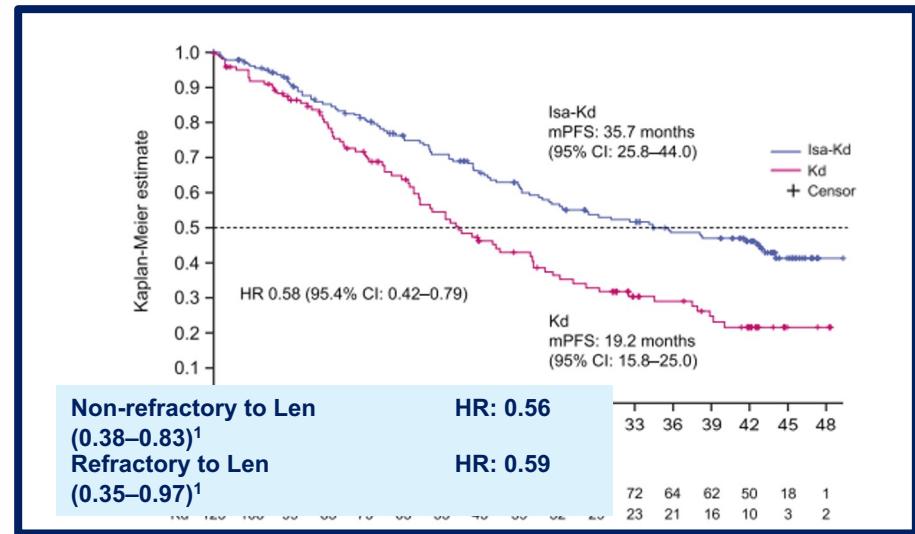
AIFA approved from 2L

Dimopoulos MA et al, Lancet Oncology 2016; Palumbo A et al, N Engl J Med 2016; Spencer et al, Haematologica 2018; Mateos MV et al, Clinical Lymphoma, Myeloma & Leukemia 2019; Moreau P et al. Leukemia 2017; 31(1):115-122; Usmani SZ et al. ASH 2018;132:3288

IKEMA: Isa-Kd vs Kd for relapsed MM^{1–4}



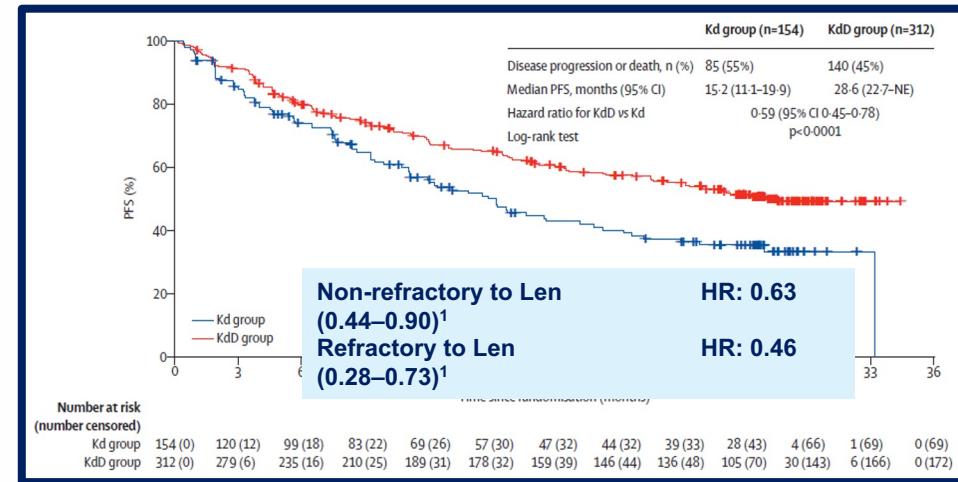
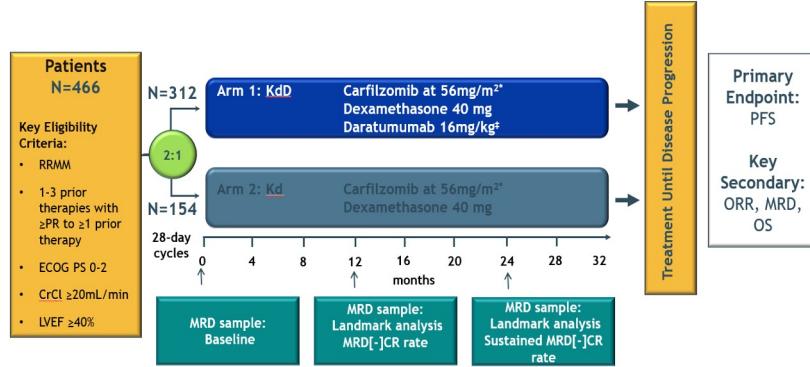
1-3 prior lines
32% (Isa-Kd) and 34% (Kd) len-refractory¹
PFS 35.7 vs 19.2 months



AIFA approved from II line to IV line

1. Martin T, et al. Blood Cancer J 2023;13:72; 2. Facon T, et al. EHA 2021 (Abstract No. EP980 – poster); 3. NCT03275285. Available at: <https://classic.clinicaltrials.gov/ct2/show/NCT03275285> (last accessed September 2023); 4. Moreau P, et al. Lancet 2021;397:2361–2371.

CANDOR: Dara-Kd vs Kd for relapsed MM^{1,2}



1-3 prior line

32% (Dara-Kd) and 36% (Kd) len-refractory¹

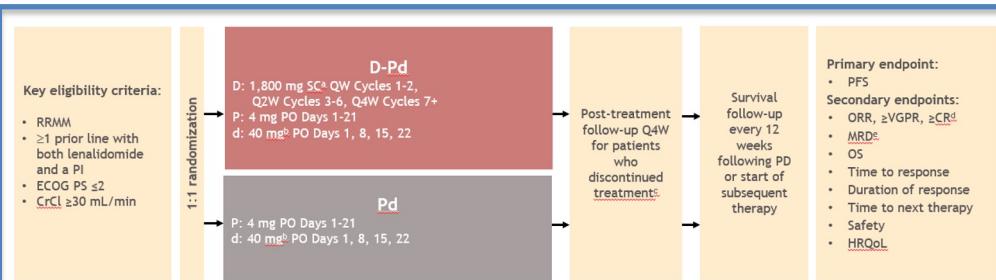
PFS 28.6 vs 15.2

AIFA approved from 2L, but not refund

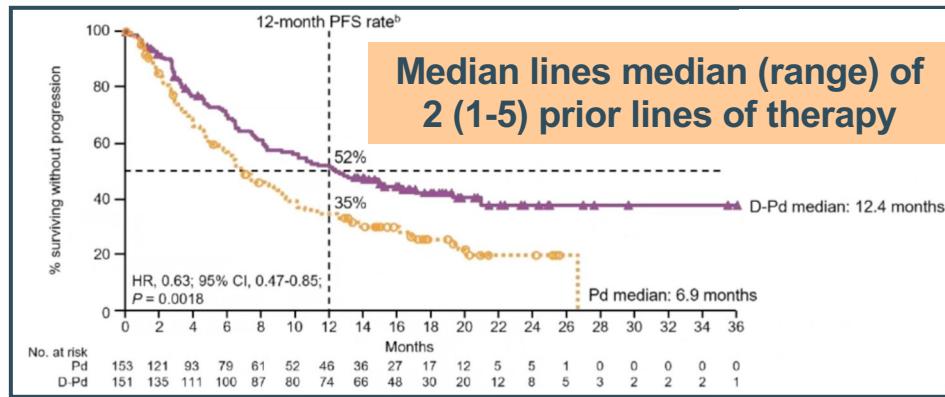
CI, confidence interval; CR, complete response; CrCl, creatinine clearance; d, dexamethasone; D/Dara, daratumumab; ECOG PS, Eastern Cooperative Oncology Group performance status; HR, hazard ratio; K, carfilzomib; len, lenalidomide; LVEF, left ventricular ejection fraction; MM, multiple myeloma; MRD, minimal residual disease; NE, non-evaluable; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PR, partial response; RRMM, relapsed/refractory multiple myeloma.

1. Usmani SZ, et al. Lancet Oncol 2022;23:65-76; 2. NCT03158688. Available at: <https://classic.clinicaltrials.gov/ct2/show/NCT03158688> (last accessed September 2023).

APOLLO: Dara-Pd for relapsed MM¹⁻³

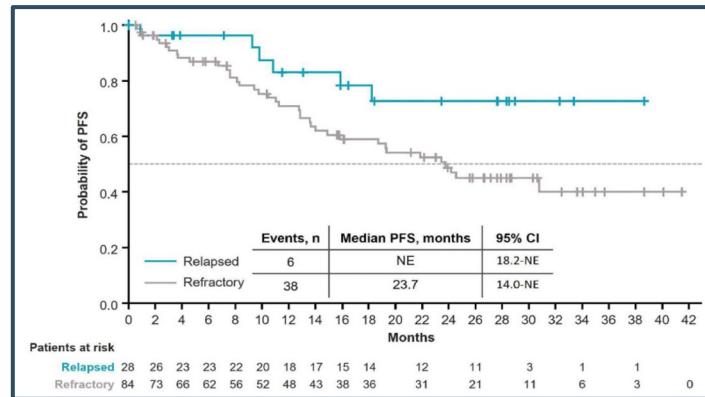


79% (Dara-Pd) and 80% (Pd) len-refractory^{1,2}



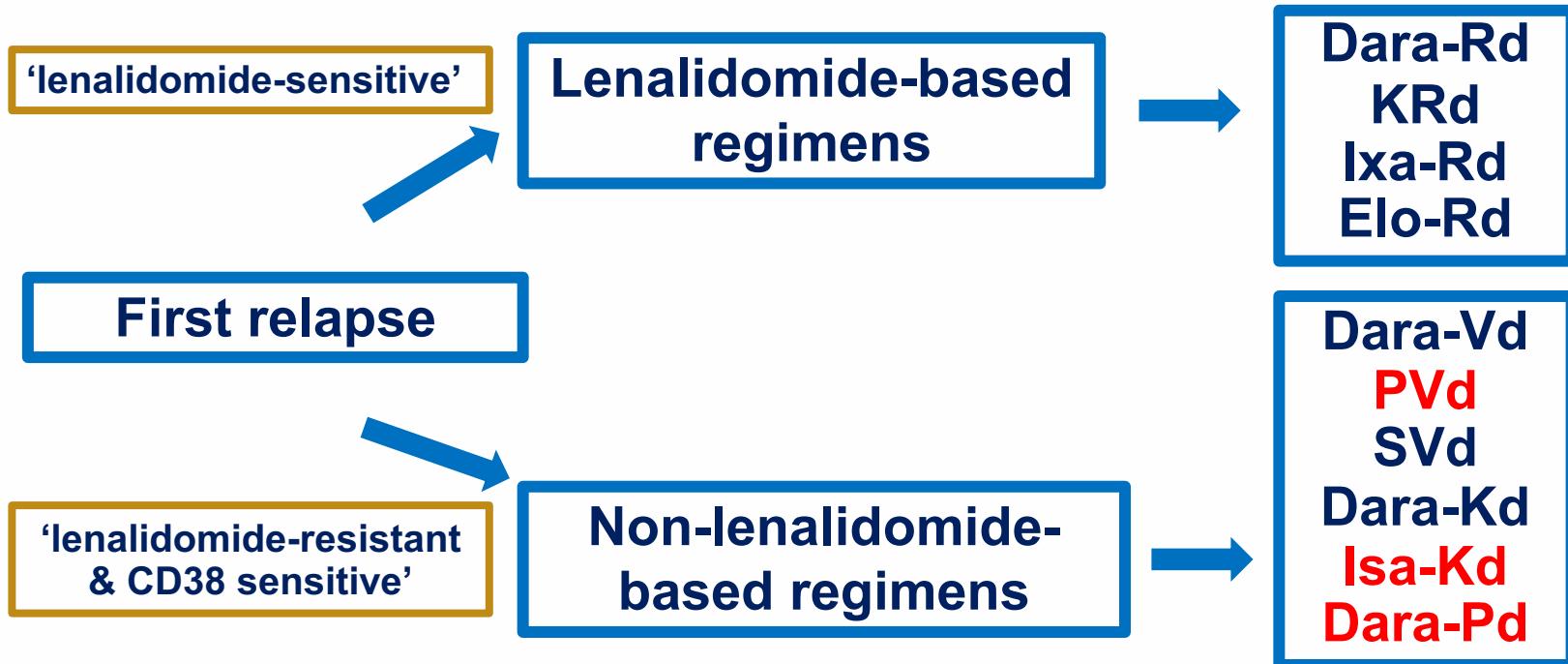
Phase II MM-014 study, cohort B:
non-randomised Dara-Pd³

75% len-refractory in ITT population³



II line after 1L with PI and LENA and LENA refractory
III line after PI and LENA

Treatment options ('triplets') at first relapse¹



d, dexamethasone; dara, daratumumab; elo, elotuzumab; isa, isatuximab; ixa, ixazomib; K, carfilzomib; P, pomalidomide; R, lenalidomide; S, selinexor; V, bortezomib.

1. Adapted from Moreau P, et al. Lancet Oncol 2021;22:e105–118 and Dimopoulos MA, et al. Ann Oncol 2021;32:309–322.

How to further improve the outcome?



- New targets
- Innovative mechanism of action
- Newer combinations

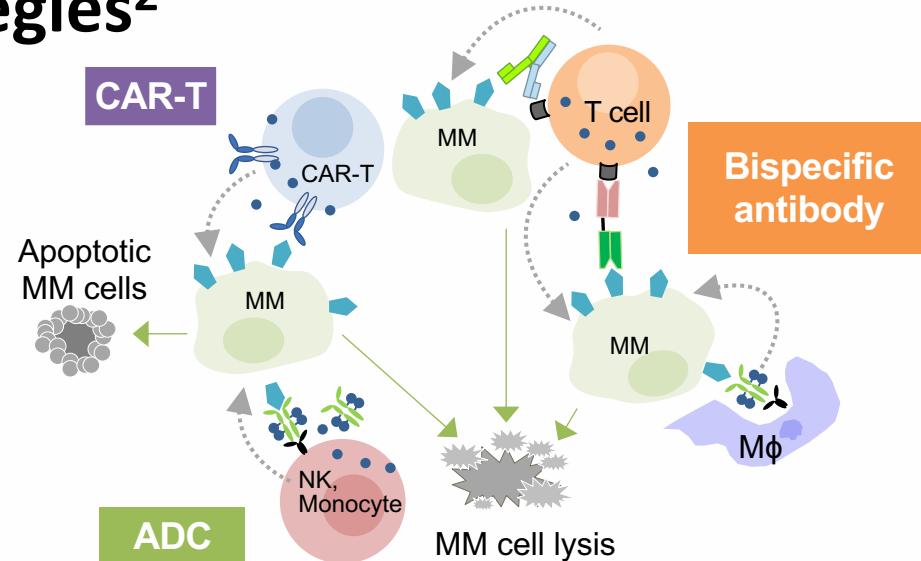
BCMA, B-cell maturation antigen; CAR, chimeric antigen receptor; FcRH5, Fc receptor-homolog 5; GPRC5D, G protein-coupled receptor, class C, group 5, member D; MM, multiple myeloma; scFv, single chain variable fragment; SLAMF7, signalling lymphocytic activation molecule family member 7.

1. Rodríguez-Lobato LG, et al. *Front Oncol* 2020;10:1243; 2. Swan D, et al. *Cancers (Basal)* 2023;15:1819; 3. Verkleij CPM, et al. *Curr Opin Oncol* 2020;32:664–71.

BCMA-targeted agents use different modalities to target and kill multiple myeloma cells¹

- BCMA-targeted strategies²**

ADC	mAbs conjugated to a toxic payload that specifically bind BCMA and target myeloma cells ^{1,3}
CAR-T cell therapy	Genetically modified T cells that recognize and kill BCMA-expressing tumor cells ^{1,4}
Bispecific antibody	Dual-antigen specificity facilitating cell-to-cell interactions between T cells and tumor cells ^{1,5}

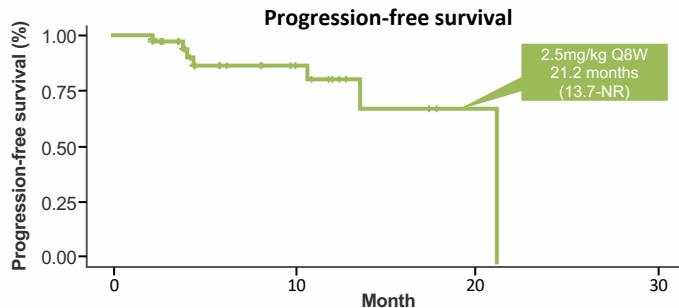


- ADC, antibody-drug conjugate; BCMA, B-cell maturation antigen; CAR-T, chimeric antigen receptor T cell; Mφ, macrophage; MM, multiple myeloma; NK, natural killer.
- 1. Shah N et al. *Leukemia*. 2020;34(4):985-1005. 2. Cho SF et al. *Front Immunol*. 2018;9:1821. doi:10.3389/fimmu.2018.01821 3. Montes de Oca R et al. *Mol Cancer Ther*. 2021;20(10):1941-1955. 4. Wang Q et al. *Cell Immunol*. 2021;363:104342. doi:10.1016/j.cellimm.2021.104342 5. Moreau P et al. *N Engl J Med*. 2022;387(6):495-505.

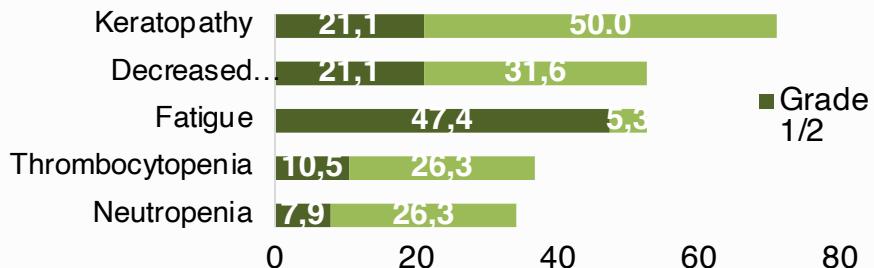
ALGONQUIN: belaPd demonstrated clinically meaningful combination efficacy in patients with 2L+ RRMM who were CD38- and len-refractory

Part 1 and 2: belantamab mafodotin RP2D in combination with Pd in TCE/TCR RRMM*

Patient characteristics	All cohorts (N=61)
Median age, years (range)	67 (36-85)
Median prior lines of therapy, n (range)	3 (2-5)
Anti-CD38 (dara) exposed/refractory, n (%)	61 (100)/60 (98.4)
Len exposed/refractory, n (%)	61 (100)/60 (98.4)
Efficacy outcomes	Belantamab mafodotin 2.5mg/kg Q8W (n=38)
ORR, n (%)	27/33 (82) [†]
Median follow-up, months (range)	6.2 (0-21.2)



Safety outcomes for belantamab mafodotin 2.5mg/kg Q8W (n=38)



Percentage of patients who experienced TEAEs

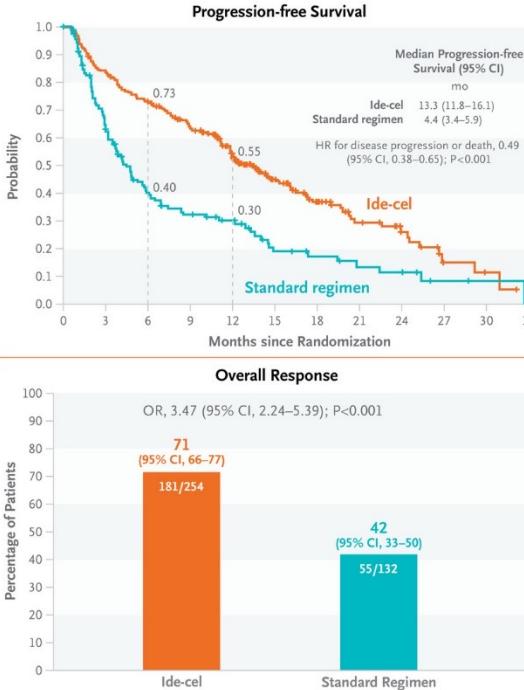
21 AE
AEs were successfully managed with supportive care and dose modifications, with no treatment discontinuations in the 2.5mg/kg Q8W cohort, suggesting that a **belantamab mafodotin combination regimen could potentially be a good option for all patients, especially those that are elderly and frail**

*This analysis reported results for the subgroup of patients exposed to lenalidomide, a PI, and an anti-CD38 agent treated at doses of 1.92mg/kg or 2.5mg/kg belantamab mafodotin in combination with Pd. [†]ORR calculation out of 33 eligible patients who received a belantamab mafodotin dose of 2.5mg/kg Q8W.
2L, second line; AE, adverse event; belaPd, belantamab mafodotin/pomalidomide/dexamethasone; CD, cluster of differentiation; CI, confidence interval; CR, complete response; len, lenalidomide; mPFS, median progression-free survival; NYR, not yet reached; ORR, overall response rate; Pd, pomalidomide/dexamethasone; PI, proteasome inhibitor; PR, partial response; PRO, patient-reported outcome; Pt, part; Q4W, every four weeks; Q8W, every eight weeks; RP2D, recommended phase II dose; RRMM, relapsed/refractory multiple myeloma; sCR, stringent complete response; TCE, triple-class exposed; TCR, triple-class refractory; TEAE, treatment-emergent adverse event; VGPR, very good partial response.

Trudel S et al. Presented at: American Society of Hematology Annual Meeting and Exposition; December 10-13, 2022; New Orleans, LA. Poster 3248.

CAR-T IN EARLY LINES OF THERAPY

KARMMMA 3 Ide-cell vs SOC



Ide-cell in patients with 2-4 prior lines of therapy

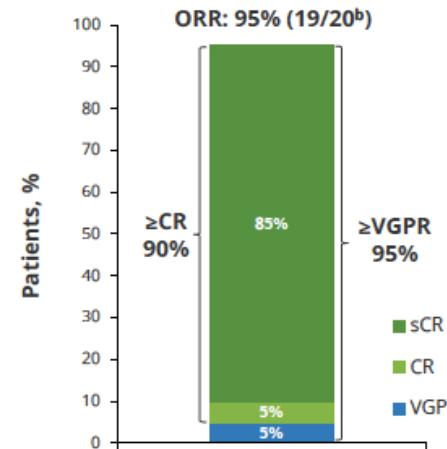
mPFS rate 13.3 months

ORR: 71%

CARTITUDE-2 Cohort A:

Cilta-cel in patients with early relapse (1-3 LOT) and Len-ref (n=20)

Overall Response Rate

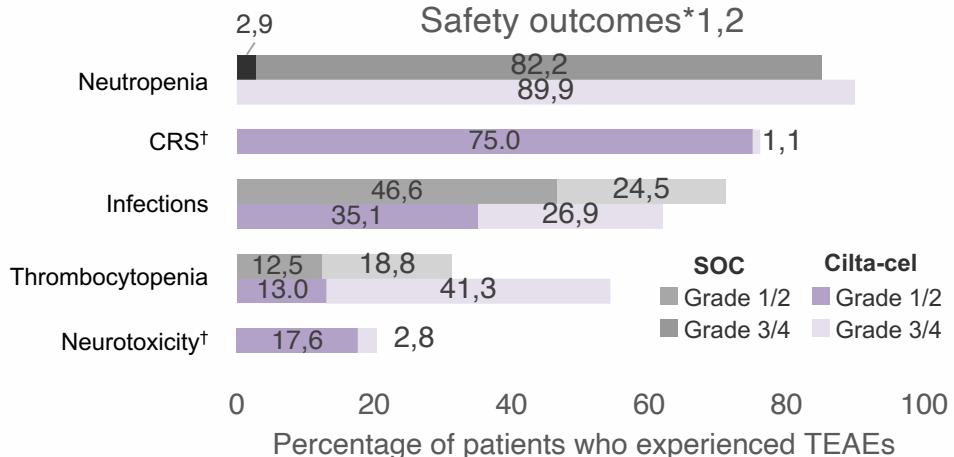
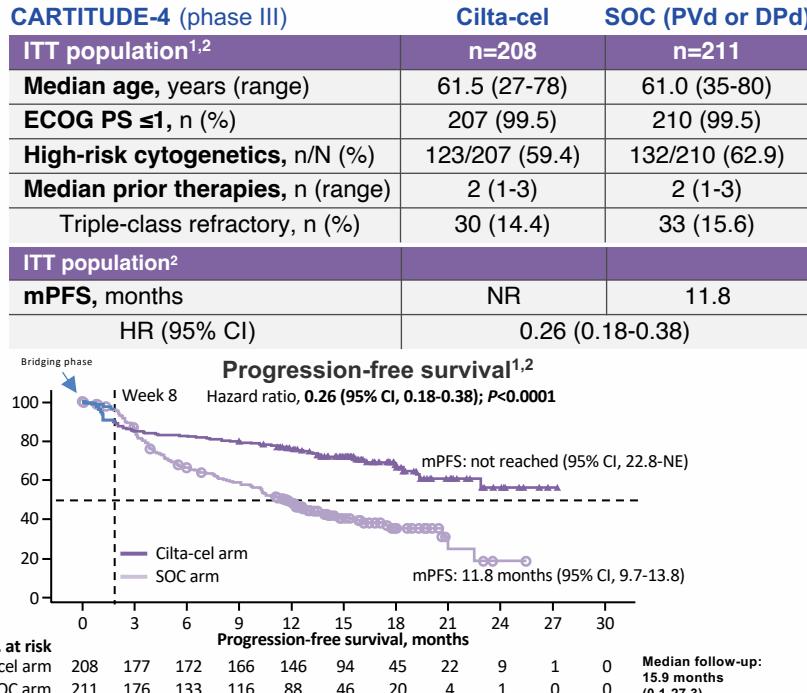


- Median DOR was NR
- **15-month PFS rate was 70% (95% CI, 45.1–85.3)**

CAR: chimeric antigen receptor; AE: adverse event; LOT: line of therapies; ORR: overall survival; NR: not reached

Rodriguez Otero P et al, NEJM 2023
Cohen AD et al. IMS 2022. Oral presentation.

CARTITUDE-4: cilda-cel vs PVd or DPd in 2L+ RRMM patients, len refractory^{1,2}

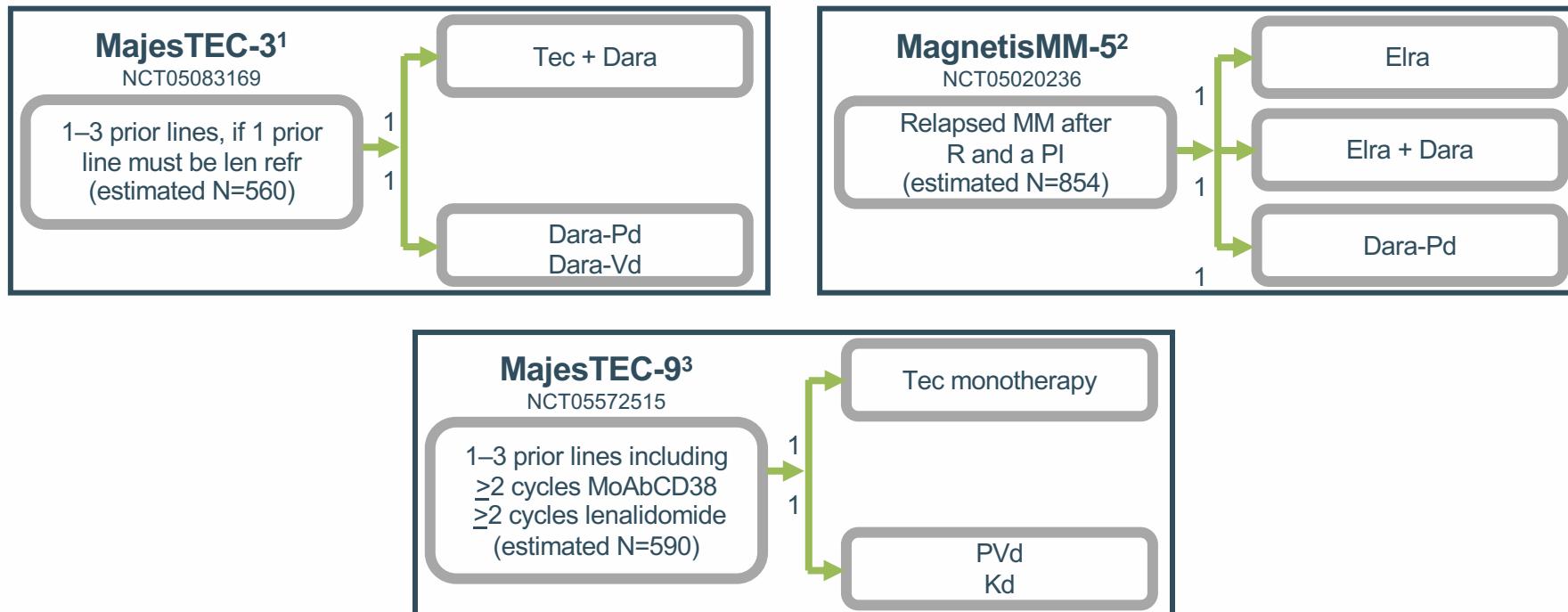


Of the 208 patients in the ITT population, **32 discontinued** treatment before receiving cilda-cel; median time from first apheresis to cilda-cel infusion: **79 days** (range, 45-246)^{1,3}

The rate of CRS and infections in this fairly fit and young patient population suggests this regimen **might be difficult** for elderly and immunocompromised patients to tolerate^{1,2}

¹The safety population had 208 patients in each arm. ²In 176 evaluated patients who received cilda-cel in the as-treated population. ³L, second-line; AE, adverse event; cilda-cel, ciltacabtagene autoleucel; CR, complete response; CRS, cytokine release syndrome; DOR, duration of response; DPd, daratumumab/pomalidomide/dexamethasone; ECOG PS, Eastern Cooperative Oncology Group performance status; ITT, intent-to-treat; mPFS, median progression-free survival; NA, not available; NR, not reached; ORR, overall response rate; OS, overall survival; Pd, pomalidomide/dexamethasone; PR, partial response; PVd, pomalidomide/bortezomib/dexamethasone; RRMM, relapsed/refractory multiple myeloma; sCR, stringent complete response; SOC, standard of care; VGPR, very good partial response. ¹San-Miguel J et al. *N Engl J Med*. 2023;389(4):335-347. ²Dhakal B et al. Presented at: American Society of Clinical Oncology Annual Meeting; June 2-6, 2023; Chicago, IL. Presentation LBA106. ³San-Miguel J et al. Supplementary appendix. *N Engl J Med*. 2023;389(4):335-347. doi:10.1056/NEJMoa2303379

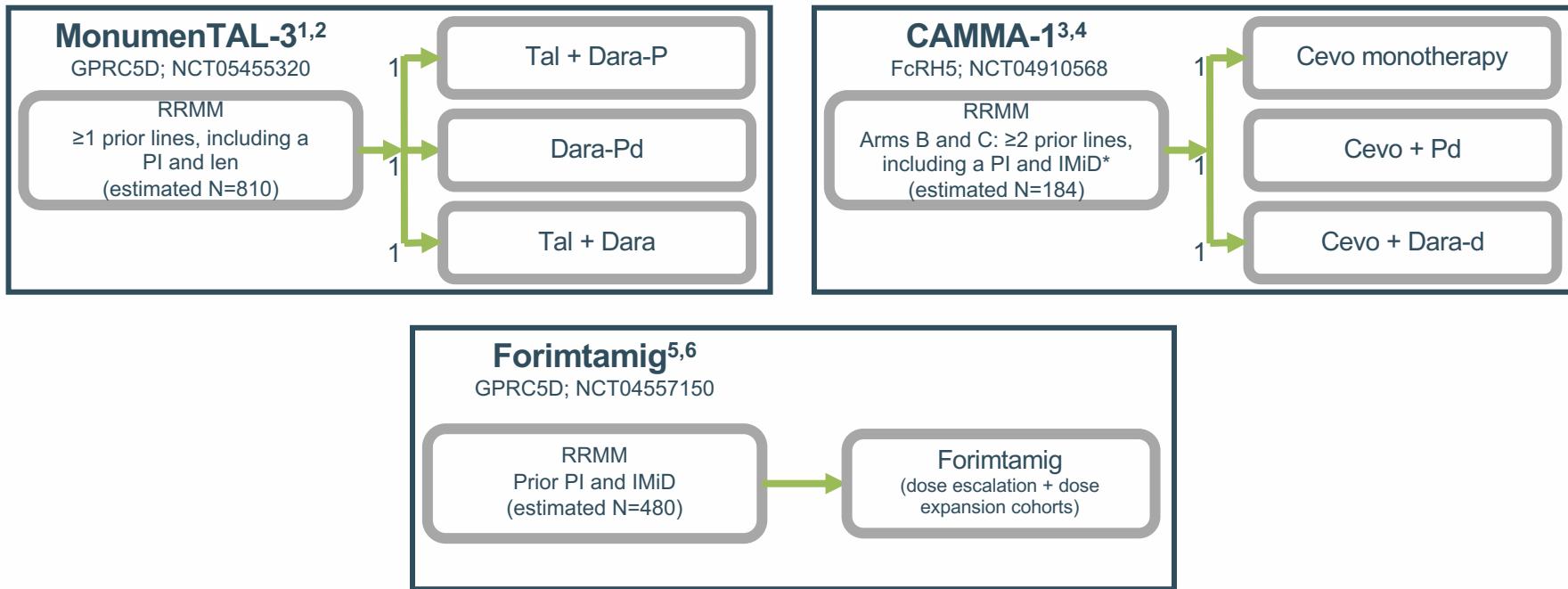
Bringing BCMA-targeting bispecific antibodies to earlier lines of relapse



BCMA, B-cell maturation antigen; d, dexamethasone; D/Dara, daratumumab; Elra, elranatamab; K, carfilzomib; MM, multiple myeloma; P, pomalidomide; PI, proteasome inhibitor; R, lenalidomide; Tec, teclistamab; V, bortezomib.

1. NCT05083169. Available at: <https://classic.clinicaltrials.gov/ct2/show/NCT05083169> (last accessed September 2023); 2. NCT05020236. Available at: <https://classic.clinicaltrials.gov/ct2/show/NCT05020236> (last accessed September 2023); 3. Touzeau C, et al. ASCO 2023 (Abstract No. TPS8067 – presentation).

Other bispecific antibody targets being explored in earlier lines of relapse: GPRC5D and FcRH5



*Arm A inclusion criteria: No established therapy for MM is appropriate and available, or intolerance to established therapies.

Cevo, cevostamab; d, dexamethasone; Dara, daratumumab; FcRH5, Fc receptor-homolog 5; GPRC5D, G protein-coupled receptor, class C, group 5, member D; IMiD; immunomodulatory drug; len; lenalidomide; P, pomalidomide; PI, proteasome inhibitor; RRMM, relapsed/refractory multiple myeloma; Tal, talquetamab.

1. NCT05455320. Available at: <https://classic.clinicaltrials.gov/ct2/show/NCT05455320> (last accessed September 2023); 2. Cohen YC, et al. ASH 2022 (Abstract No. 1925 – poster); 3. NCT04910568. Available at: <https://classic.clinicaltrials.gov/ct2/show/NCT04910568> (last accessed September 2023); 3. Vij R, et al. HemSphere 2022;6:1905–1906; 5. NCT04557150. Available at: <https://classic.clinicaltrials.gov/ct2/show/NCT04557150> (last accessed September 2023); 6. Carlo-Stella C, et al. ASH 2022 (Abstract No. 161 – presentation).

Conclusions

- The treatment options for relapsed MM have significantly increased over recent years
- Treatment choice should be tailored based on disease and patient characteristics, previous treatment and available options
- Triplet drug combinations are the current standard of care
- However, the majority of patients at first relapse are now lenalidomide-refractory and a growing population will also be progressing on daratumumab, limiting the available treatment options
- Anti-BCMA bispecific antibodies showed great efficacy in heavily pre-treated RRMM patients: ORR and CR rates up to 80% and 40% and durable responses (>12 months).
- Bispecific antibodies are associated with lower rates and grades of CRS and ICANS as compared to CAR T-cells, thus allowing older patients to be treated.
- In the near future, bispecific antibodies are expected to further improve the outcome for patients with relapsed MM
- Based on the results from KarMMA-3 and CARTITUDE-4, BCMA-targeting CAR-T cells are expected to set a new standard in the management of first and later relapse

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