

Highlights in seconda linea nel mieloma multiplo

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RENDE (CS)

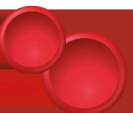
23-24 MAGGIO 2025

Università della Calabria, University Club

Highlights in
**EMATO
LOGIA**

Key issues

- Treatment paths are rapidly evolving as of occurrence of new therapies and shifting of the most efficacious combos in I line
- As a consequence, emergence of lenalidomide refractoriness is a challenging issue in early lines of MM treatment
- Clinical data from trials and RW have shown the impact of lena refractoriness on overall outcomes



Len Ref outcomes in Clinical Trials

PI-Based Regimens														
Studio [Ref]	Regimens	Overall							Len Refractory					
		Prior LOTs (m)	mFU (mos)	mPFS (mos)	mOS (mos)	ORR (%)	≥CR (%)	MRD- (%)	Len-ref (%)	mPFS (mos)	mOS (mos)	ORR (%)	≥CR (%)	MRD- (%)
CASTOR [30–32]	D-Vd vs. Vd	2 (1–9)	72.6	16.7 vs. 7.1 (27.0 vs. 7.9 as 2nd LOT)	49.6 vs. 38.5	84 vs. 63	29 vs. 10	14 vs. 2	24	7.8 vs. 4.9	/	/	/	/
ENDEAVOR [33–35]	Kd56 vs. Vd	2 (1–3)	44.3	18.7 vs. 9.4	47.8 vs. 38.8 (51.3 vs. 43.7 as 2nd LOT)	77 vs. 63	13 vs. 6	/	25	8.6 vs. 6.6	29.2 vs. 21.4	/	15.5 (Kd56)	/
CANDOR [36–38]	D-Kd vs. Kd	2 (1–5)	50.6	28.4 vs. 15.2	50.8 vs. 43.6	84 vs. 73	22 vs. 8	28 vs. 9	32 vs. 36	28.1 vs. 11.1	NR vs. 38.2	79.8 (D-Kd)	/	/
IKEMA [39–44]	isa-Kd vs. Kd	2 (1–4)	56.6	35.7 vs. 19.2	NR vs. 50.6	87 vs. 84	44 vs. 29	34 vs. 15	32 vs. 34	HR 0.6 in favor of isa-Kd	/	/	39 vs. 12	25 vs. 10
BOSTON [45]	SVd vs. Vd	2 (1–3)	28	13.2 vs. 9.5 (21.0 vs. 10.7 as 2nd LOT)	36.7 vs. 32.8 (NR vs. 32.8 as 2nd LOT)	76 vs. 62	17 vs. 11	/	37 vs. 39	10.2 vs. 7.1	26.7 vs. 18.6	67.9 vs. 47.2	/	/

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Len Ref outcomes in Clinical Trials

IMiD-based regimens														
Overall									Len Refractory					
Studio	Regimens	Prior LOTs (m)	mFU (mos)	mPFS (mos)	mOS (mos)	ORR (%)	≥CR (%)	MRD- (%)	Len-ref (%)	mPFS (mos)	mOS (mos)	ORR (%)	≥CR (%)	MRD- (%)
OPTIMISMM [46-48]	PVd vs. Vd	2 (1-3)	64.5	11.7 vs. 6.9 (20.73 vs. 11.63 as 2nd LOT)	35.6 vs. 31.6	82 vs. 50	13 vs. 3	/	71 vs. 69	17.8 vs. 9.5 (2nd LOT)	29.8 vs. 24.2	85.9 vs. 50.8	/	/
APOLLO [49-51]	D-Pd vs. Pd	2 (1-5)	39.6	12.4 vs. 6.9	34.4 vs. 23.7	69 vs. 46	25 vs. 4	9 vs. 2	63 vs. 73	9.9 vs. 6.5	/	/	/	/
MM-014 [63.64]	D-Pd	2 (1-2)	41.9	23.7	56.7	78.6	26.8	/	76	23.0	53.6	77.6	22.4	/
ICARIA [52-54]	isa-Pd vs. Pd	3 (2-4)	52.4	11.5 vs. 6.5	24.6 vs. 17.7	60 vs. 35	9 vs. 2	/	94 vs. 92	/	22.7 vs. 17.5	/	/	/
ELOQUENT-3 [55,56]	elo-Pd vs. Pd	3 (2-8)	45	10.3 vs. 4.7	29.8 vs. 17.4	53 vs. 26	20 vs. 9	/	90 vs. 84	/	/	/	/	/
CAR-T-based regimens														
cilta-cel vs. SOC [57,58]	CARTITUDE-4	2 (1-3)	33.6	NR vs. 11.8 (30-mos PFS: 59.4% vs. 25.7%)	NR (30-mos OS: 76.4% vs. 63.8%)	85 vs. 67	77 vs. 24	62 vs. 19 (ITT) 89 vs. 38 (MRD evaluable pts)	All	/	/	/	/	/

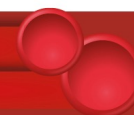
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Dara based Clinical Trials

Daratumumab clinical trials overview.

Daratumumab trial	Clinicaltrials.gov trial number	Study start year	Clinical study phase	Study population, N*	Summary
APOLLO	NCT03180736	2017	3	299	D-Pd vs Pd in RRMM
CASTOR	NCT02136134	2014	3	480	D-Vd vs Vd in RRMM
CANDOR	NCT03158688	2017	3	461	D-Kd vs Kd in RRMM
EQUULEUS	NCT01998971	2014	1b	240	Safety and tolerability of D-Pd or D-Kd in RRMM
ALCYONE	NCT02195479	2014	3	700	D-VMP vs VMP in transplant-ineligible NDMM
MAIA	NCT02252172	2015	3	729	D-Rd vs Rd in frontline therapy in transplant-ineligible patients with NDMM
GRIFFIN	NCT02874742	2016	2	217	D-RVd vs RVd in transplant-eligible patients with NDMM
POLLUX	NCT02076009	2014	3	564	D-Rd vs Rd in RRMM
CASSIOPEIA	NCT02541383	2015	3	1074	D-VTd vs VTd as induction and D monotherapy vs observation as maintenance in transplant-eligible NDMM

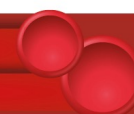
Yong et al., Eur J Cancer 2025



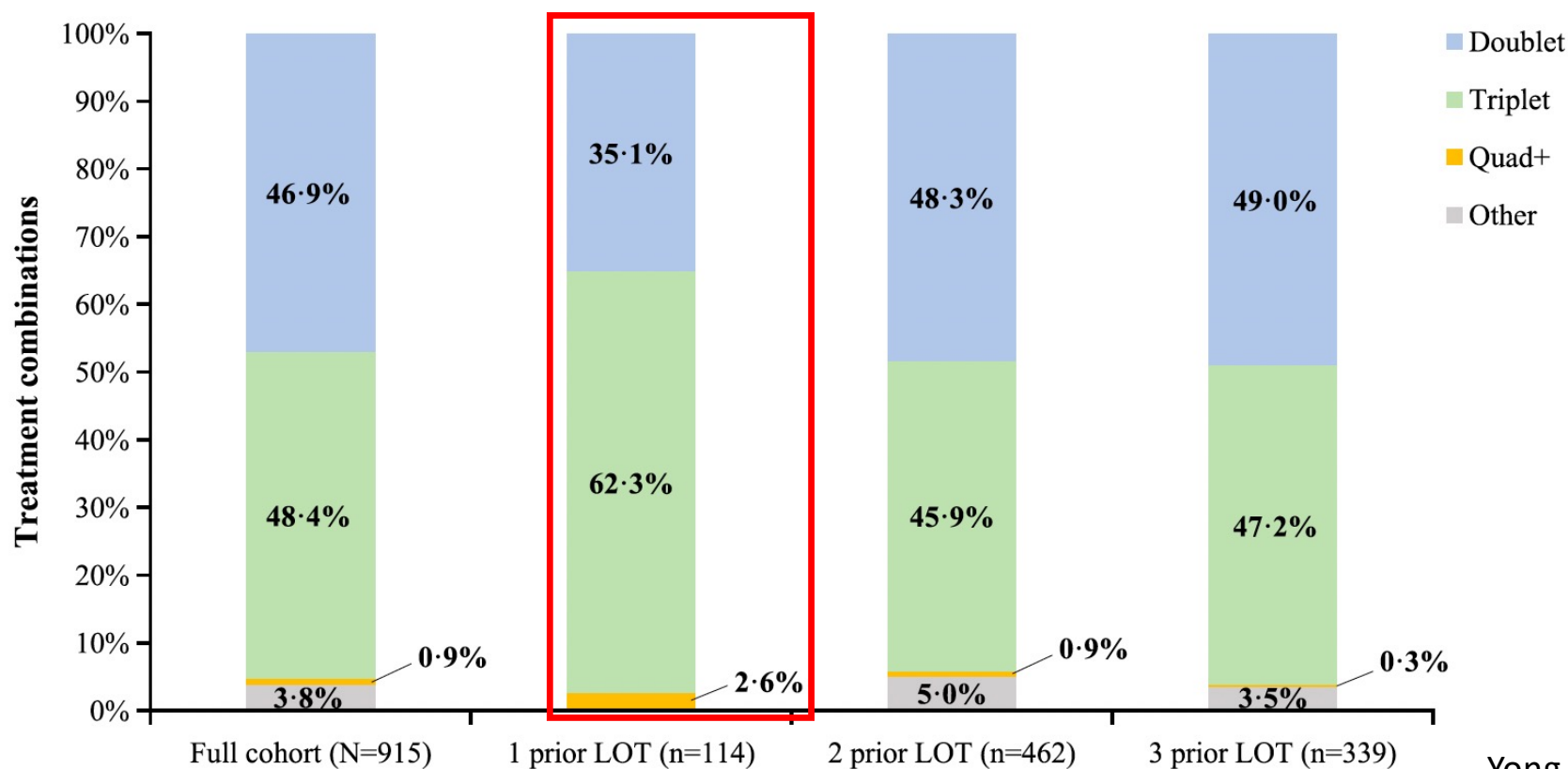
Individual patient level analysis in Len ref MM pts

Baseline characteristic	Total (N = 915)	1 prior LOT (n = 114)	2 prior LOT (n = 462)	3 prior LOT (n = 339)
ISS stage, n (%)				
I	339 (37.0)	46 (40.4)	174 (37.7)	119 (35.1)
II	285 (31.1)	20 (17.5)	162 (35.1)	103 (30.4)
III	159 (17.4)	10 (8.8)	76 (16.5)	73 (21.5)
Unknown	132 (14.4)	38 (33.3)	50 (10.8)	44 (13.0)
Prior stem cell transplant, n (%)	539 (58.9)	68 (59.6)	247 (53.5)	224 (66.1)
ECOG PS, n (%)				
0	452 (49.4)	69 (60.5)	223 (48.3)	160 (47.2)
1	463 (50.6)	45 (39.5)	239 (51.7)	179 (52.8)
Time to PD on last regimen, median months (IQR) [§]	11.9 (5.4–24.7)	22.4 (11.7–36.2)	10.8 (4.6–22.1)	11.0 (5.0–21.2)
Prior treatments, n (%)				
Bortezomib	880 (96.2)	105 (92.1)	445 (96.3)	330 (97.3)
Thalidomide	295 (32.2)	8 (7.0)	136 (29.4)	151 (44.5)
Daratumumab	166 (18.1)	10 (8.8)	91 (19.7)	65 (19.2)
Carfilzomib	109 (11.9)	7 (6.1)	49 (10.6)	53 (15.6)
Ixazomib	72 (7.9)	7 (6.1)	38 (8.2)	27 (8.0)
Pomalidomide	33 (3.6)	2 (1.8)	7 (1.5)	24 (7.1)
Elotuzumab	23 (2.5)	0 (0)	10 (2.2)	13 (3.8)
Isatuximab	0 (0)	0 (0)	0 (0)	0 (0)
Refractory status, n (%)				
Last LOT	835 (91.3)	111 (97.4)	411 (89.0)	313 (92.3)
PI	585 (63.9)	110 (96.5)	240 (51.9)	235 (69.3)
Anti-CD38 mAb	140 (15.3)	10 (8.8)	67 (14.5)	63 (18.6)
Triple refractory [¶]	87 (9.5)	10 (8.8)	32 (6.9)	45 (13.3)
Penta refractory	9 (1.0)	0 (0)	6 (1.3)	3 (0.9)

Yong et al., Eur J Cancer 2025



Most Common Treatment combos in Len ref MM pts

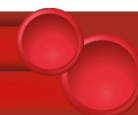


Yong et al., Eur J Cancer 2025

RR by prior LOT in Len ref MM pts

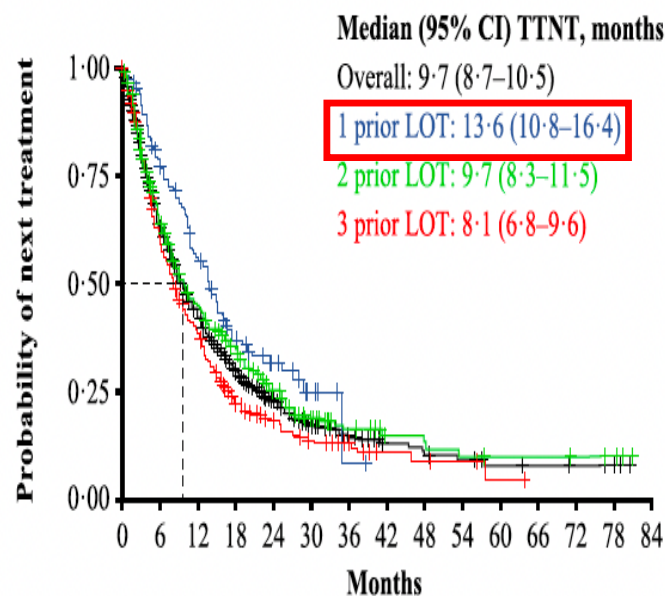
Response rate, n (%)	Total (N = 915)	1 prior LOT (n = 114)	2 prior LOT (n = 462)	3 prior LOT (n = 339)
ORR	507 (55.4)	84 (73.7)	249 (53.9)	174 (51.3)
VGPR or better	305 (33.3)	57 (50.0)	152 (32.9)	96 (28.3)
CR or better	131 (14.3)	22 (19.3)	70 (15.2)	39 (11.5)

Yong et al., Eur J Cancer 2025

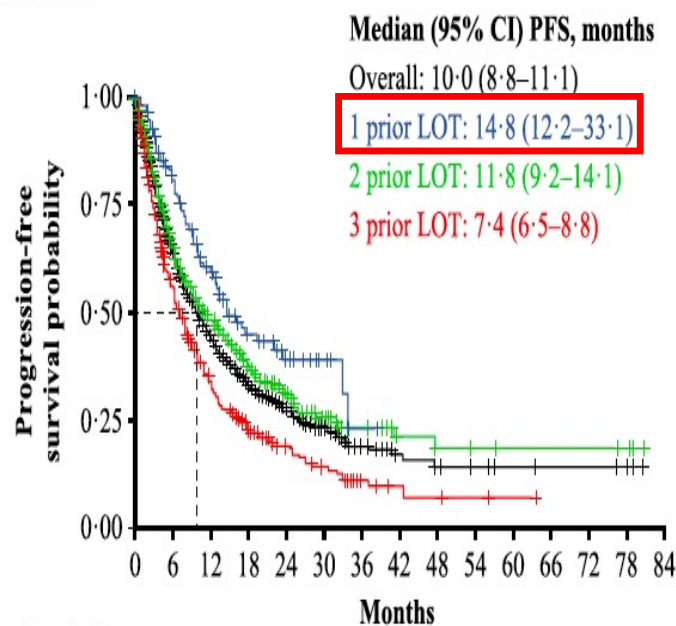


Overall Outcomes by prior LOT in Len ref MM pts

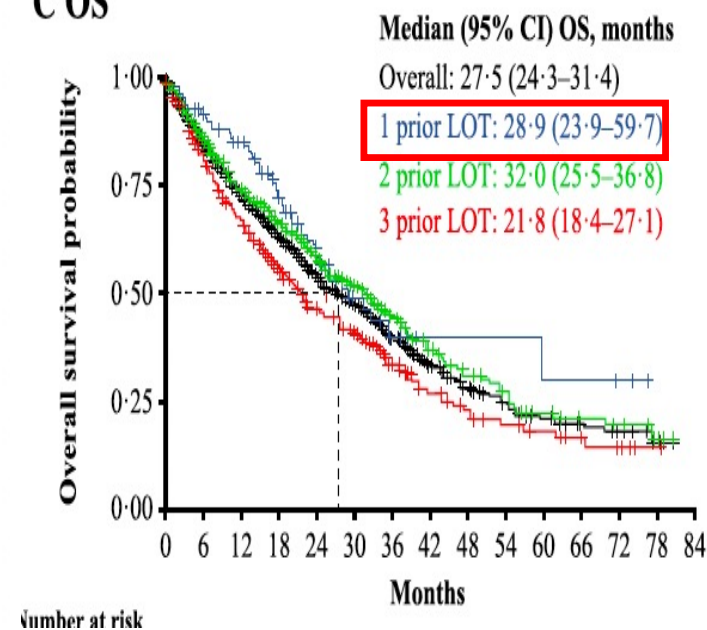
A TTNT



B PFS



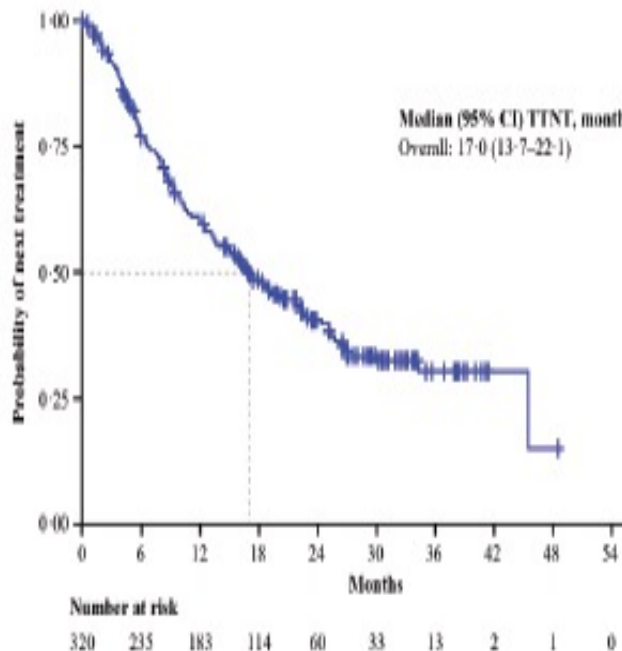
C OS



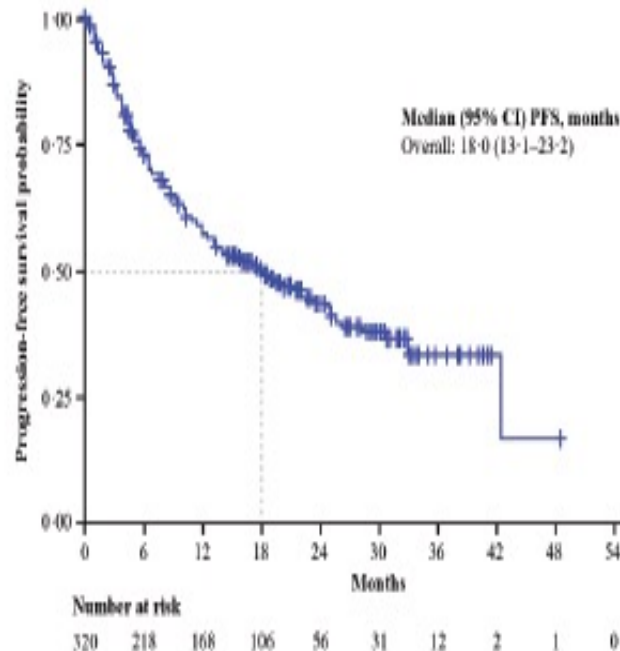
Yong et al., Eur J Cancer 2025

Overall Outcomes by prior LOT in Len ref MM pts treated according to ESMO guidelines

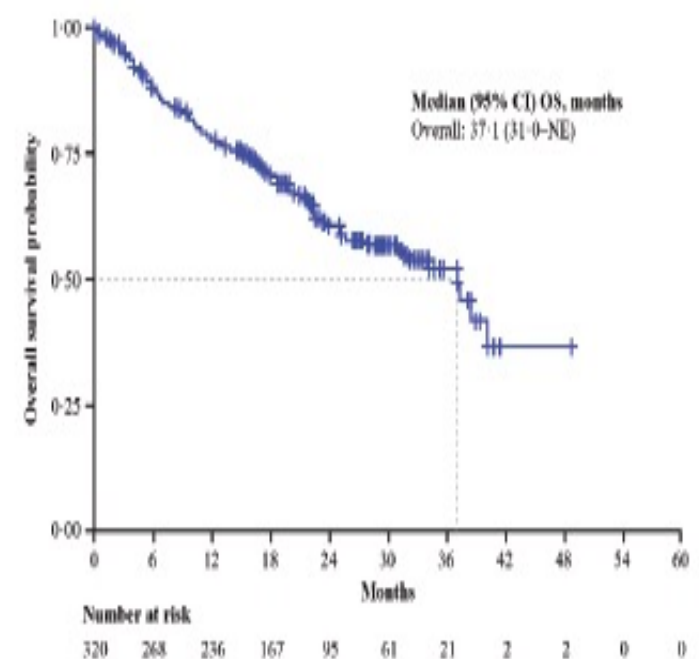
A TTNT



B PFS



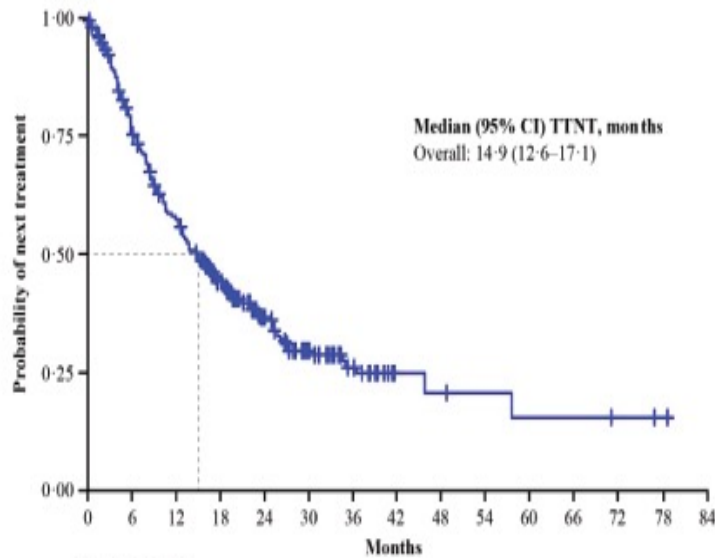
C OS



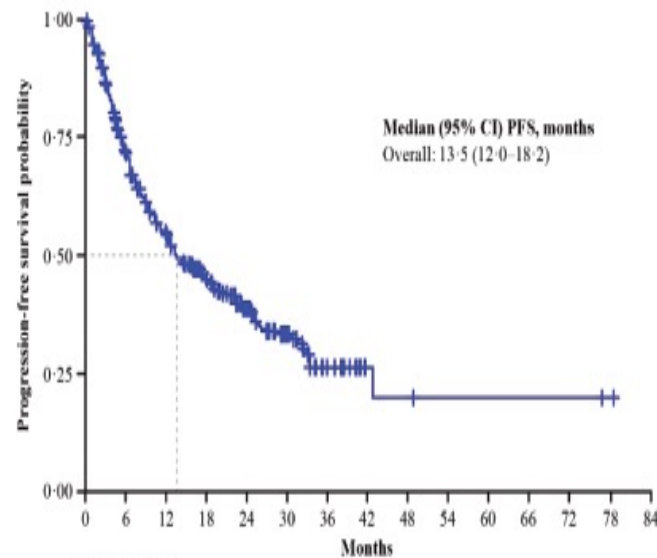
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Overall Outcomes by prior LOT in Len ref MM pts treated according to NCCN guidelines

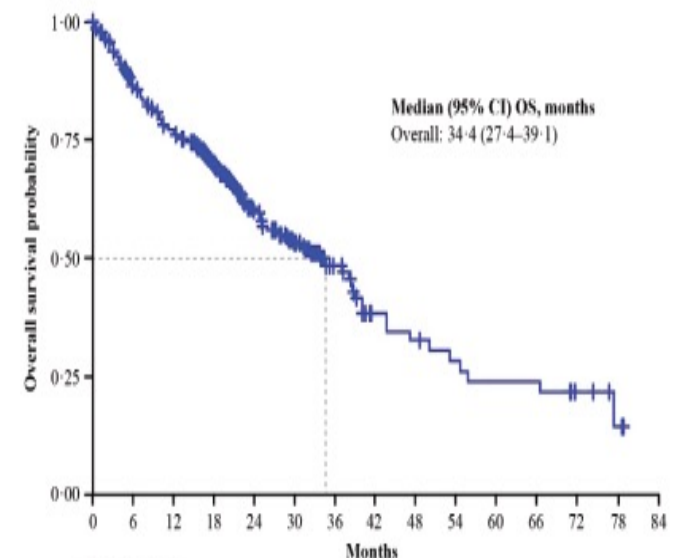
A TTNT



B PFS

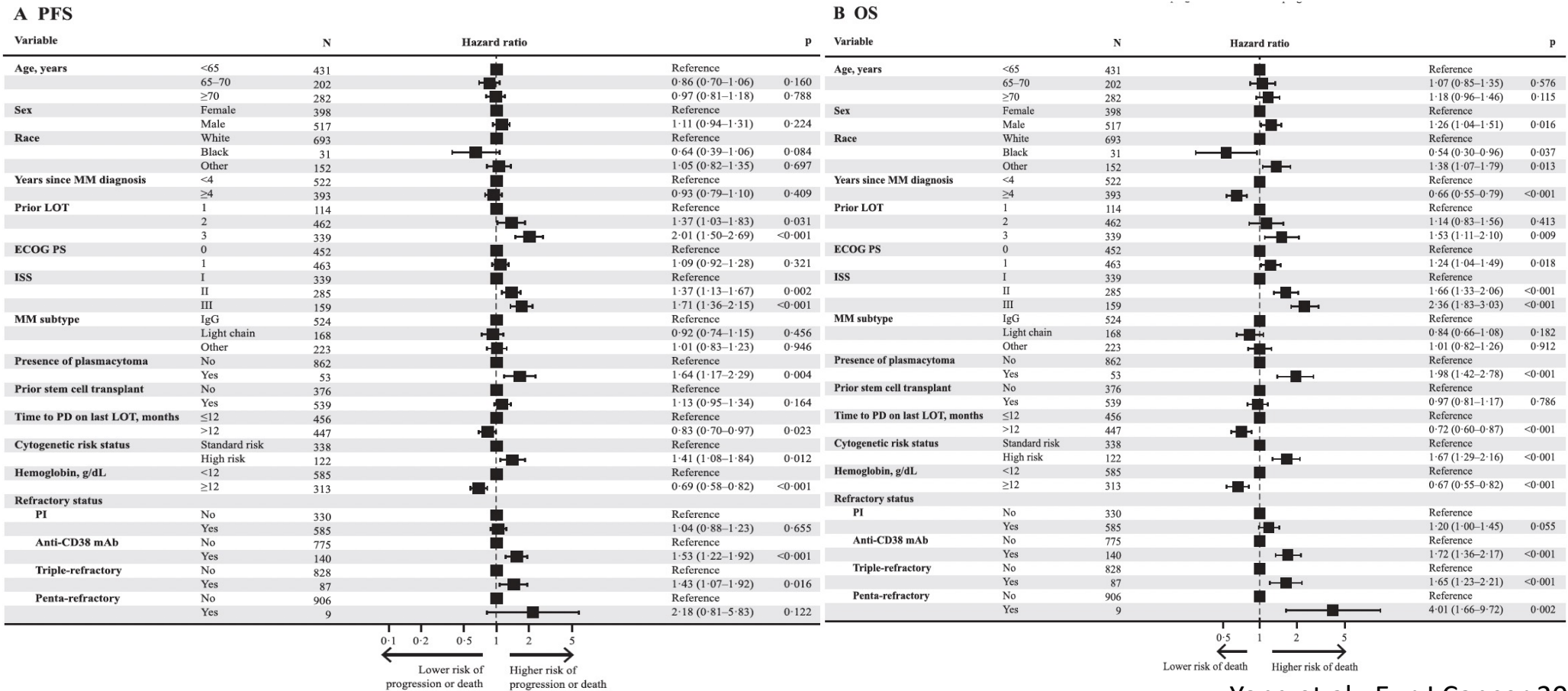


C OS



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HR for PFS and OS in Len-ref MM pts

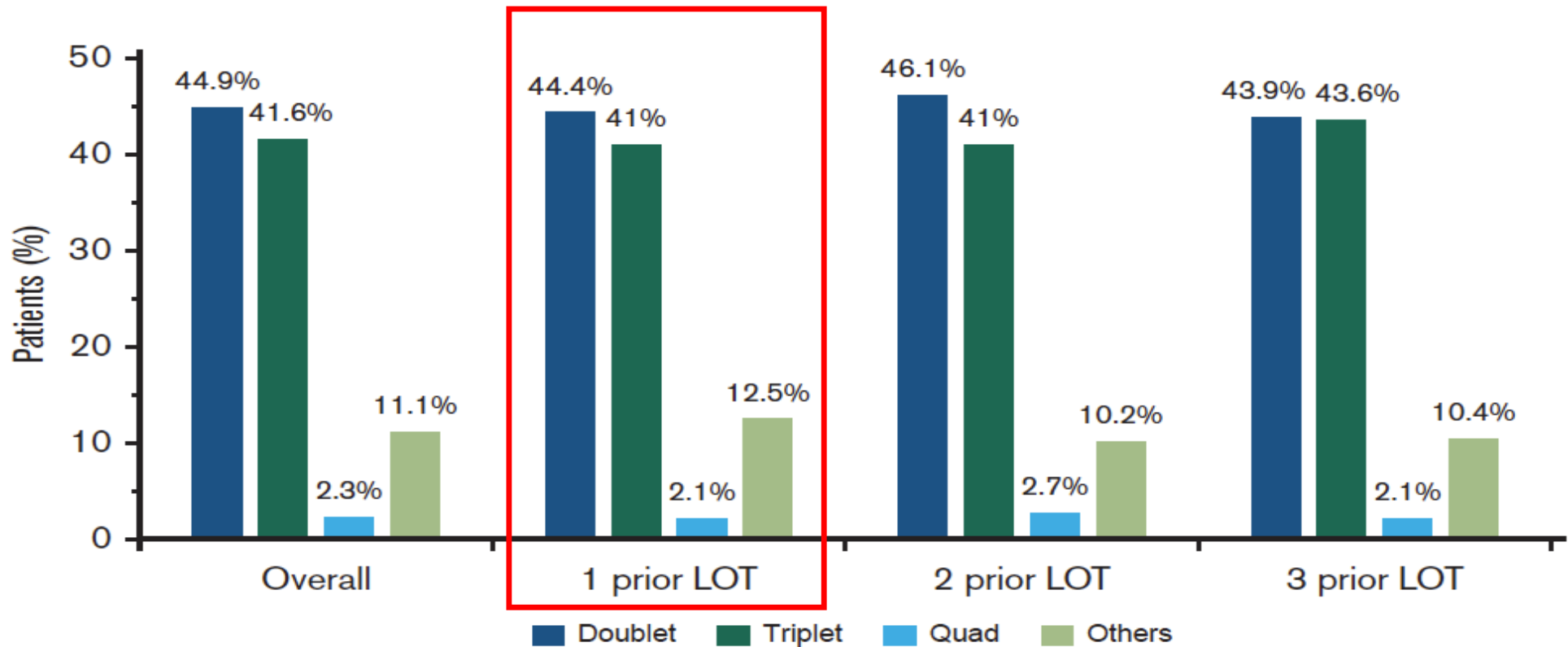


Yong et al., Eur J Cancer 2025

Highlights in **EMATOLOGIA**

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Most Common Treatment combos in Len ref MM pts RW data

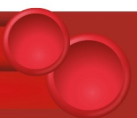


Dhakal et al., Blood Adv 2024

Main Treatment Regimens delivered in Len ref MM pts RW data

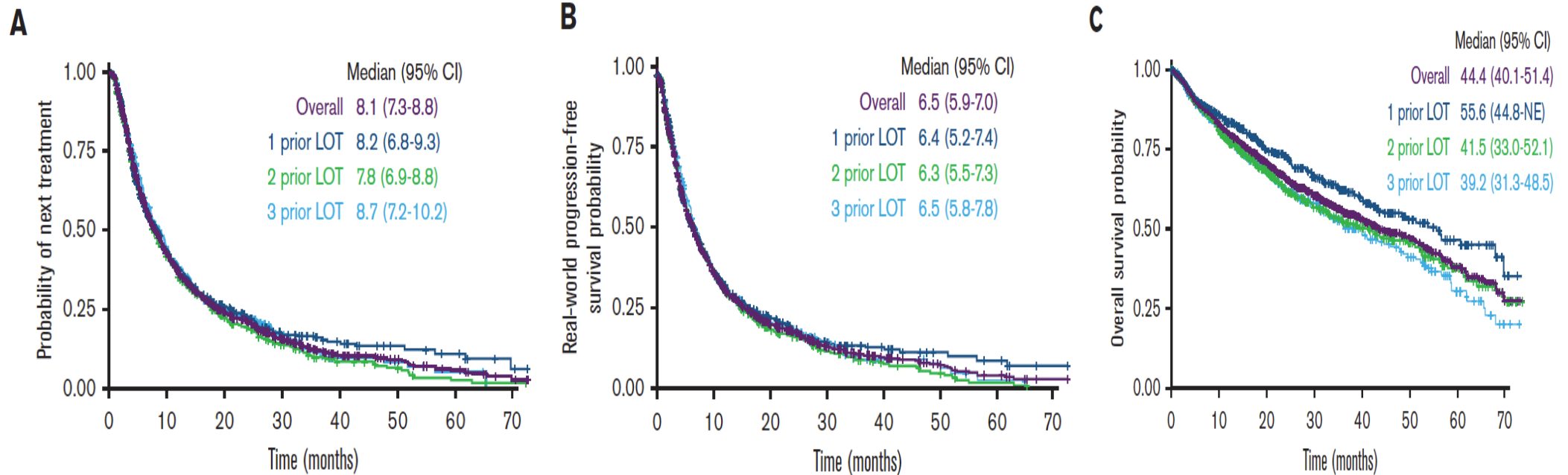
Treatment regimen, n (%)	Overall (N = 1455)	1 prior LOT (LOT 2) (n = 561)	2 prior LOT (LOT 3) (n = 566)	3 prior LOT (LOT 4) (n = 328)
NCCN-preferred regimens for lenalidomide-refractory 1-3 PL RRMM*				
DPd	192 (13.2)	58 (10.3)	80 (14.1)	54 (16.5)
KPd	104 (7.1)	53 (9.4)	34 (6.0)	17 (5.2)
DVd	95 (6.5)	48 (8.6)	32 (5.7)	15 (4.6)
DKd	56 (3.8)	24 (4.3)	25 (4.4)	7 (2.1)
PVd	39 (2.7)	23 (4.1)	11 (1.9)	5 (1.5)
IxaPd	14 (1.0)	4 (0.7)	6 (1.1)	4 (1.2)
IxaKd	3 (0.2)	1 (0.2)	2 (0.4)	0
IxaPd	3 (0.2)	0	2 (0.4)	1 (0.3)
Total	506 (34.8)	211 (37.6)	192 (33.9)	103 (31.4)

Dhakai et al., Blood Adv 2024

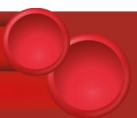


Overall Outcomes in Len ref MM pts by prior LOT

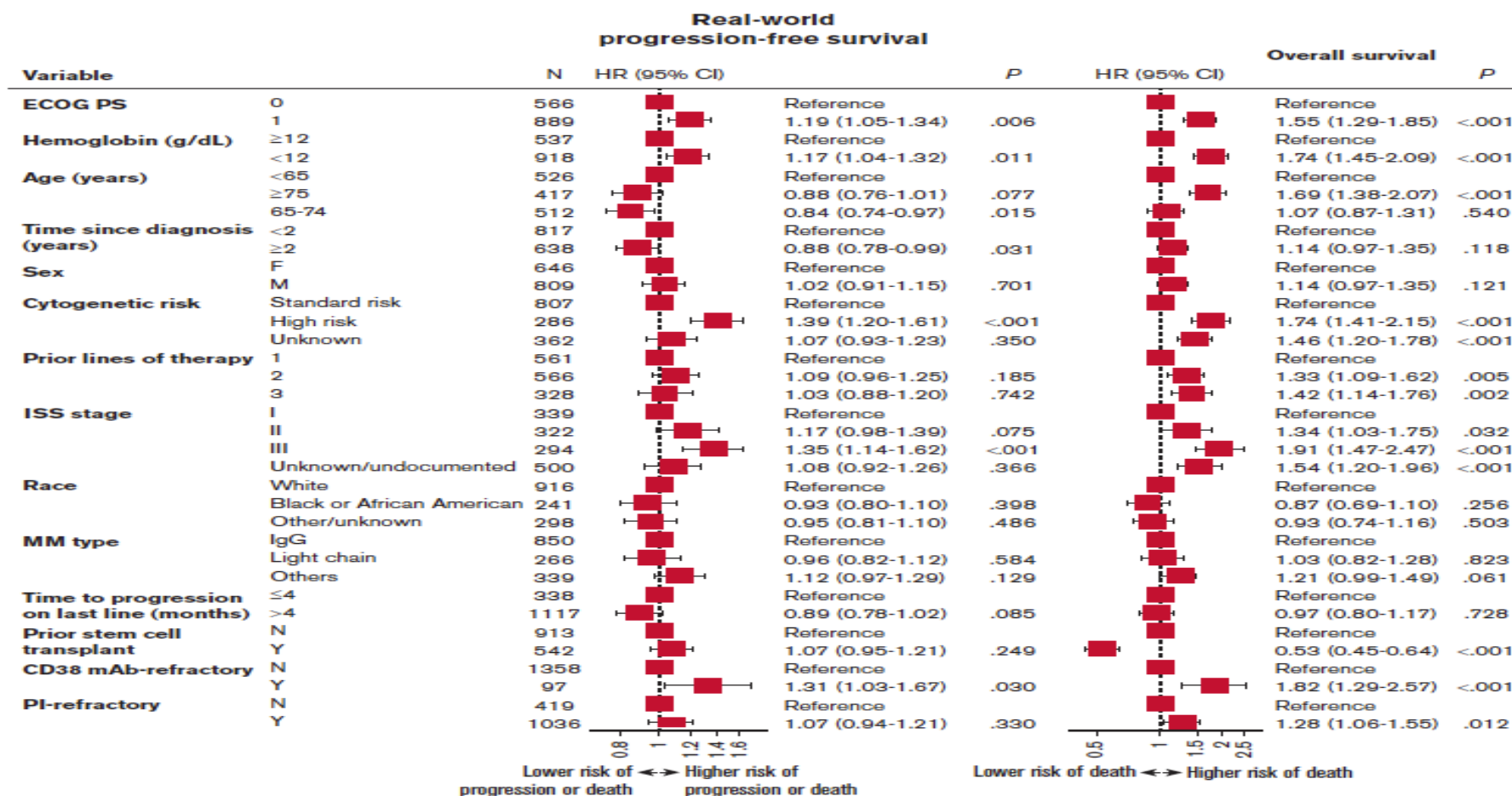
RW data



Dhakar et al., Blood Adv 2024



HR for PFS and OS in Len-ref MM pts



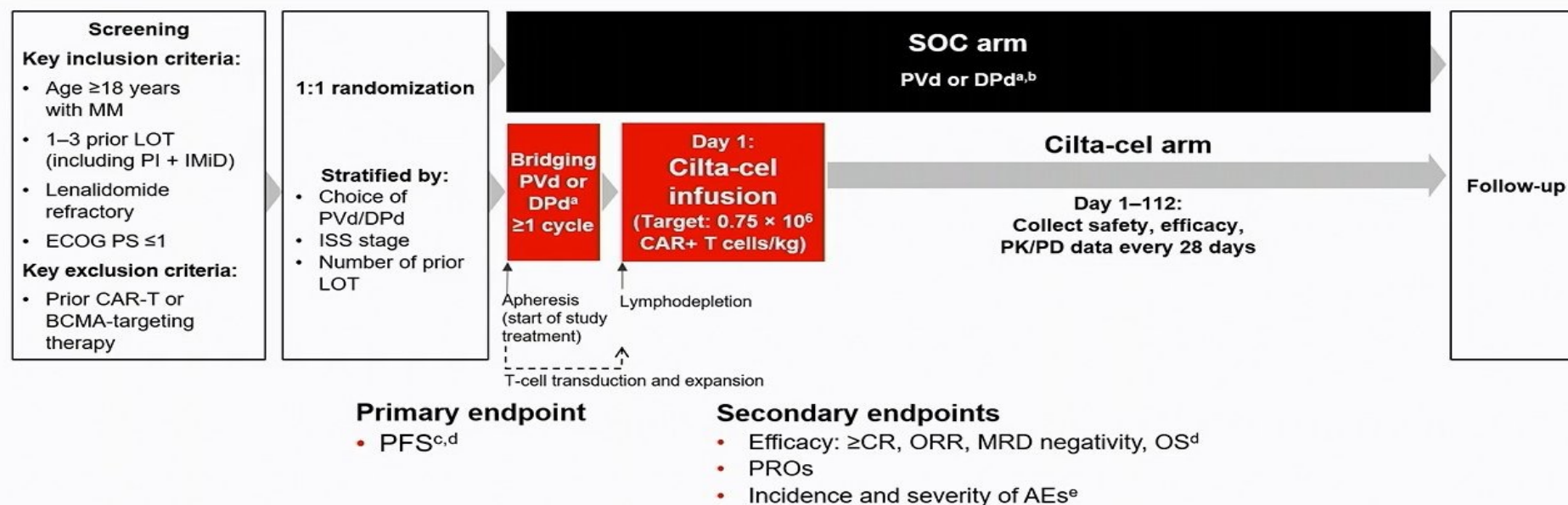
Dhakai et al., Blood Adv 2024

Potential strategies in len ref MM upon approval

Overall									Len Refractory					
Regimen	Study	Prior LOTs (m)	mFU (mos)	mPFS (mos)	mOS (mos)	ORR (%)	≥CR (%)	MRD- (%)	Len-ref (%)	mPFS (mos)	mOS (mos)	ORR (%)	≥CR (%)	MRD- (%)
ide-cel vs. SOC [74,75]	KarMMa-3	6 (3–16)	30.9	13.8 vs. 4.4	41.4 vs. 37.9	71 vs. 42	44 vs. 6	35 vs. 2	73 vs. 79	/	/	/	/	/
bela-Vd vs. D-Vd [76–78]	DREAMM-7	≥1	39.4	36.6 vs. 13.4	NR in either group (36-mos OS: 74% vs. 60%)	83 vs. 71	34.6 vs. 17.1	39 vs. 17	33 vs. 35 (28 vs. 31 ref 1 prior LOT)	25.0 vs. 8.6	/	84 vs. 61	35 vs. 11	42 vs. 13
Overall									Len Refractory					
bela-Pd vs. PVd [79,80]	DREAMM-8	≥1	21.8	NR vs. 12.7 (NR vs. 18.5 as 2nd LOT)	NR in either group (12-mos OS: 83% vs. 76%)	77 vs. 72	40 vs. 16	24 vs. 5 (CR) 32 vs. 5 (VGPR)	81 vs. 76	24.0 vs. 9.2 (NR vs. 13.1 as 2nd LOT)	NR in either group (12-mos OS: 82% vs. 72%)	75 vs. 68	38 vs. 14	23 vs. 5 (CR) 31 vs. 5 (VGPR)

Mancuso et al., Cancers 2025

CARTITUDE-4: Study Design and Endpoints¹



^aPhysicians' choice. ^bAdministered until disease progression. ^cTime from randomization to disease progression/death. ^dPrespecified first and second interim analyses performed after approximately 75% or 100% of planned 250 PFS events were accumulated, respectively. ^eAssessed per CTCAE version 5.0. CRS and ICANS were graded per ASTCT criteria. AE, adverse event; ASTCT, American Society for Transplantation and Cellular Therapy; BCMA, B-cell maturation antigen; CAR, chimeric antigen receptor; cilta-cel, ciltacabtagene autoleucel; CR, complete response; CRS, cytokine release syndrome; CTCAE, Common Terminology Criteria for Adverse Events; DPd, daratumumab, pomalidomide, and dexamethasone; ECOG PS, Eastern Cooperative Oncology Group performance status; ICANS, immune effector cell-associated neurotoxicity syndrome; IMiD, immunomodulatory drug; ISS, International Staging System; LOT, line of therapy; MM, multiple myeloma; MRD, minimal residual disease; ORR, overall response rate; OS, overall survival; PD, pharmacodynamics; PFS, progression-free survival; PI, proteasome inhibitor; PK, pharmacokinetics; PRO, patient-reported outcome; PVd, pomalidomide, bortezomib, and dexamethasone; SOC, standard of care. 1. San-Miguel J, et al. *N Engl J Med* 2023;389:335-47.

Presented by M-V Mateos at the 21st International Myeloma Society (IMS) Annual Meeting; September 25–28, 2024; Rio de Janeiro, Brazil

4



CAR-T as second line option

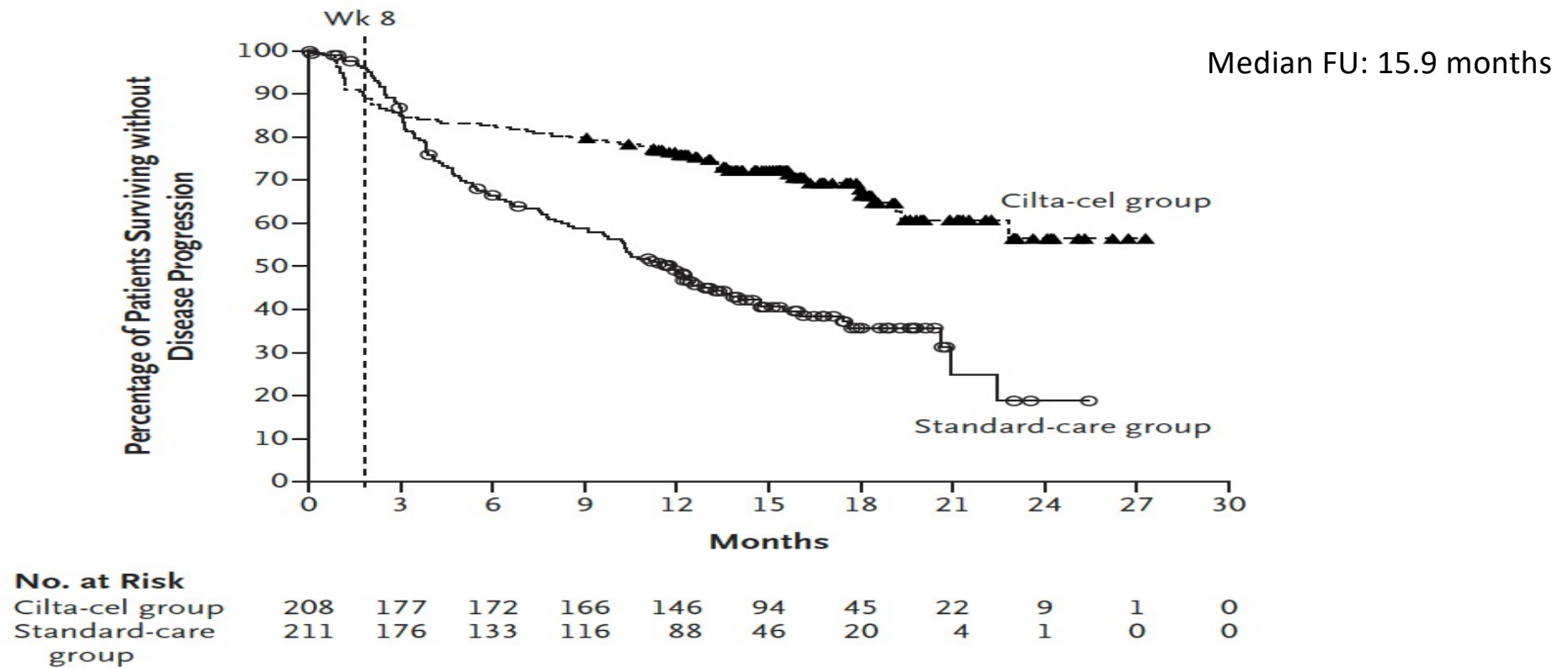
Clinical history		
ECOG performance-status score — no. (%)‡		
0	114 (54.8)	121 (57.3)
1	93 (44.7)	89 (42.2)
2	1 (0.5)	1 (0.5)
International Staging System stage — no. (%)		
I	136 (65.4)	132 (62.6)
II	60 (28.8)	65 (30.8)
III	12 (5.8)	14 (6.6)
Median time since diagnosis (range) — yr	3.0 (0.3–18.1)	3.4 (0.4–22.1)
Presence of soft-tissue plasmacytomas — no. (%)§	44 (21.2)	35 (16.6)
Bone marrow plasma cells ≥60% — no./total no. (%)¶	42/206 (20.4)	43/208 (20.7)
Cytogenetic risk — no./total no. (%)		
Standard	69/207 (33.3)	70/210 (33.3)
High	123/207 (59.4)	132/210 (62.9)
Gain/amp(1q)	89/207 (43.0)	107/210 (51.0)
del(17p)	49/207 (23.7)	43/210 (20.5)
t(4;14)	30/207 (14.5)	30/210 (14.3)
t(14;16)	3/207 (1.4)	7/210 (3.3)
With ≥2 high-risk abnormalities	43/207 (20.8)	49/210 (23.3)
With del(17p), t(4;14), or t(14;16)	73/207 (35.3)	69/210 (32.9)
Missing data	15/207 (7.2)	8/210 (3.8)
Tumor BCMA expression ≥50% — no. (%)	141 (67.8)	138 (65.4)

Table 1. (Continued.)

Characteristic	Cilta-cel (N = 208)	Standard Care (N = 211)
Previous lines of therapy — no. (%)		
1	68 (32.7)	68 (32.2)
2	83 (39.9)	87 (41.2)
3	57 (27.4)	56 (26.5)
Previous immunomodulatory drug — no. (%)	208 (100.0)	211 (100.0)
Lenalidomide	208 (100.0)	211 (100.0)
Pomalidomide	8 (3.8)	10 (4.7)
Previous anti-CD38 antibody	53 (25.5)	55 (26.1)
Daratumumab	51 (24.5)	54 (25.6)
Isatuximab	2 (1.0)	2 (0.9)
Previous proteasome inhibitor — no. (%)	208 (100.0)	211 (100.0)
Bortezomib	203 (97.6)	205 (97.2)
Carfilzomib	77 (37.0)	66 (31.3)
Ixazomib	21 (10.1)	21 (10.0)
Triple-class exposure — no. (%)	53 (25.5)	55 (26.1)
Penta-drug exposure — no. (%) **	14 (6.7)	10 (4.7)
Refractory status — no. (%)		
Lenalidomide	208 (100.0)	211 (100.0)
Bortezomib	55 (26.4)	48 (22.7)
Carfilzomib	51 (24.5)	45 (21.3)
Any anti-CD38 antibody	50 (24.0)	46 (21.8)
Daratumumab	48 (23.1)	45 (21.3)
Ixazomib	15 (7.2)	17 (8.1)
Pomalidomide	8 (3.8)	9 (4.3)
Triple-class	30 (14.4)	33 (15.6)
Penta-drug **	2 (1.0)	1 (0.5)

San Miguel et al., NEJM 2023

CAR-T as second line option

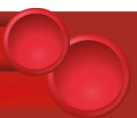


San Miguel et al., NEJM 2023

CAR-T as second line option

Variable	Cilta-cel (N = 208)	Standard Care (N = 211)	Odds Ratio (95% CI)*
Overall response — no. (%)†	176 (84.6)	142 (67.3)	3.0 (1.8–5.0)
Type of response — no. (%)			
Stringent complete response	121 (58.2)	32 (15.2)	
Complete response	31 (14.9)	14 (6.6)	
Very good partial response	17 (8.2)	50 (23.7)	
Partial response	7 (3.4)	46 (21.8)	
Minimal response	1 (0.5)	11 (5.2)	
Stable disease	13 (6.2)	47 (22.3)	
Progressive disease	17 (8.2)	6 (2.8)	
Not evaluable	1 (0.5)	5 (2.4)	
Complete response or better	152 (73.1)	46 (21.8)	10.3 (6.5–16.4)
Very good partial response or better	169 (81.2)	96 (45.5)	5.9 (3.7–9.4)
12-month duration of response — % (95% CI)	84.7 (78.1–89.4)	63.0 (54.2–70.6)	
Median time to first response (range) — mo	2.1 (0.9–11.1)	1.2 (0.6–10.7)	
Median time to best response (range) — mo	6.4 (1.1–18.6)	3.1 (0.8–20.6)	
No minimal residual disease — no. (%)‡	126 (60.6)	33 (15.6)	8.7 (5.4–13.9)
12-month progression-free survival — % (95% CI)	75.9 (69.4–81.1)	48.6 (41.5–55.3)	

San Miguel et al., NEJM 2023



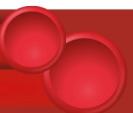
655.MULTIPLE MYELOMA: CELLULAR THERAPIES

Ciltacabtagene Autoleucel (Cilta-cel) Vs Standard of Care (SoC) in Patients with Lenalidomide (Len)-Refractory Multiple Myeloma (MM) after 1-3 Lines of Therapy: Minimal Residual Disease (MRD) Negativity in the Phase 3 Cartitude-4 Trial

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- At median FU of 33.6 months: MRD rates at 10^{-5} : 89% vs 38%
- MRD at d56: 48%; at 6 months: 60%
- MRD neg CR: 44%vs 8%; at 33.6 months: 57% vs 12%
- Median PFS in MRD neg: NR

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Comparative Efficacy of Ciltacabtagene Autoleucel Versus Isatuximab, Carfilzomib and Dexamethasone in the Treatment of Patients with Lenalidomide-Refractory Multiple Myeloma with 1-3 Prior Lines of Therapy Using a Matching-Adjusted Indirect Comparison

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Methods:

The unanchored MAIC was carried out by initially applying the primary exclusion criteria from the IKEMA study to the patient-level data (IPD) of cilta-cel. Subsequently, the IPD for cilta-cel cohort were reweighted to align the average baseline characteristics with those reported for IsaKd. To generate the necessary patient-level data for IsaKd for the MAIC analysis of PFS, we employed a two-step process. First, an exponential model was fitted between each of the provided data points to approximate the complete KM curve. Next, the Guyot algorithm was utilized, leveraging the KM curve and reported event data, to simulate the patient-level data for PFS. A weighted Cox proportional hazards model was then applied to all the IPD from both treatments to obtain hazard ratios (HRs) with 95% confidence intervals (CIs). For binary endpoints, relative effects were quantified using relative response ratios (RRs) with 95% CIs derived from a weighted logistic regression analysis.

Results:

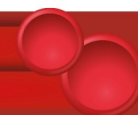
After applying the exclusion criteria from IKEMA to the IPD from CARTITUDE-4 (excluding patients refractory to an anti-CD38 monoclonal antibody), 158 cilta-cel patients were retained. When further adjusting for differences in cytogenetic risk and ISS stage, patients in the cilta-cel group (effective sample size [ESS]=79) had a 49% reduction in risk of disease progression or death (PFS) versus IsaKd (adjusted median not reached vs 19.4 months; HR: 0.51 [0.29,0.90], $p=0.0213$). Cilta-cel also demonstrated superior efficacy in response rates vs IsaKd (ORR RR: 1.07 [0.93,1.23], $p=0.3497$; \geq VGPR RR: 1.26 [1.02,1.55], $p=0.0191$; \geq CR RR: 2.09 [1.48,2.95], $p<0.0001$).

A sensitivity analysis additionally excluding patients with prior carfilzomib exposure confirmed previous reported results with a PFS HR of 0.45 [0.22,0.94], $p=0.0338$, in favor of cilta-cel vs IsaKd. Additional sensitivity analyses, matching patients based on prior lines and age, yielded consistent findings, showing the robustness of the results.

Conclusions:

This analysis demonstrated favorable efficacy outcomes of cilta-cel compared to IsaKd, despite the limited data available on lenalidomide-refractory patients in the IKEMA trial. Notably, cilta-cel demonstrated significant clinical improvement in terms of progression-free survival and depth of response, underscoring its potential as an effective therapeutic option for patients with PI exposed and len-refractory MM as early as first relapse. The findings of this analysis will be particularly relevant for countries where len-refractory patients may be treated with IsaKd.

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Take Home Messages

- Lena refractoriness is the most relevant challenge for II line strategies
- II line should be defined as part of a planned path according to disease and pt characteristics
- Although CAR-T has unveiled unprecedented results, innovative combos can be a valid alternative option in this poor prognosis subgroup

