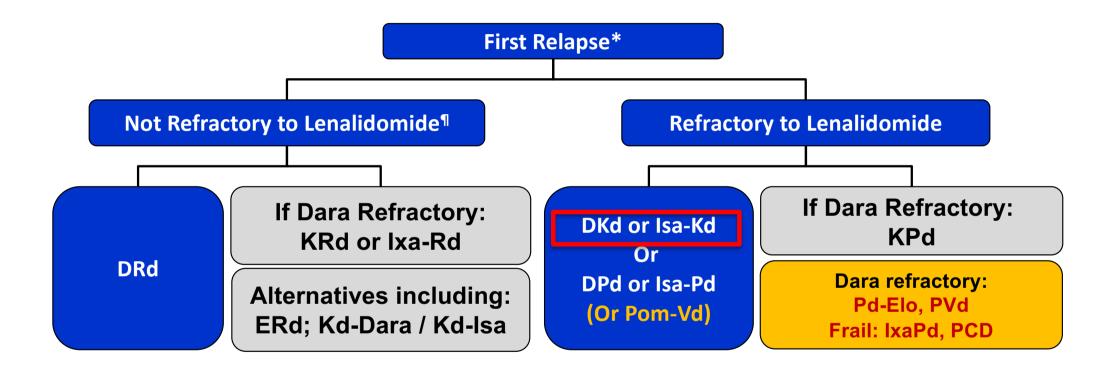


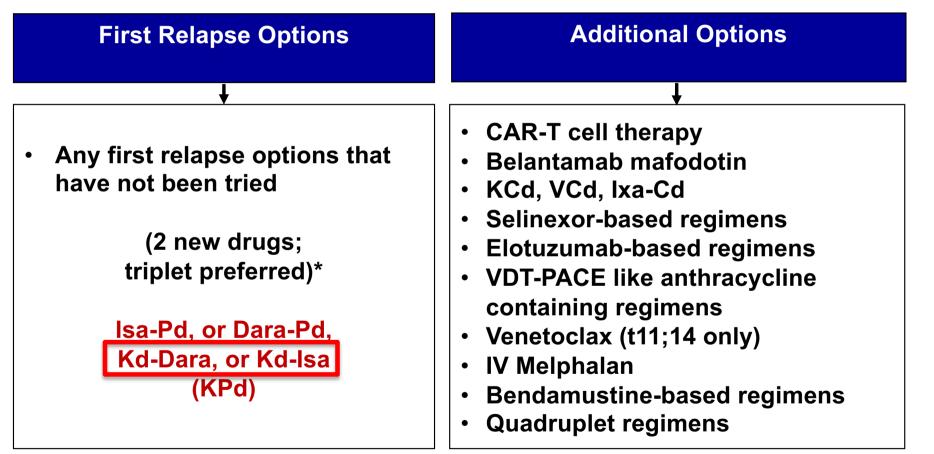
Myeloma: First Relapse



*Consider salvage auto transplant in eligible patients

Relapse occurring while off all therapy, or while on small doses of single-agent lenalidomide, or on bortezomib maintenance Rajkumar SV © 2021 and P. Moreau

Myeloma: Second or Higher Relapse

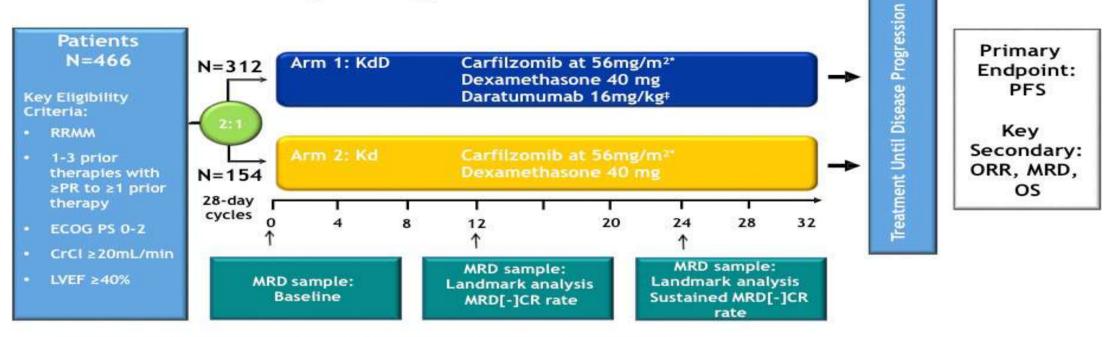


*Consider ixazomib instead of carfilzomib or bortezomib if an all-oral regimen is needed Rajkumar SV © 2021 and P. Moreau

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CANDOR Study Design



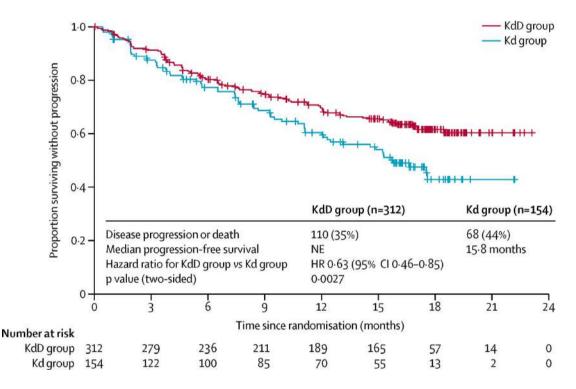
*Carfilzomib at 56 mg/m² administered twice weekly; 20 mg/m² administered on days 1 and 2 of cycle 1 only

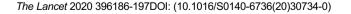
+The first dose of daratumumab is split over two days (8 mg/kg each).

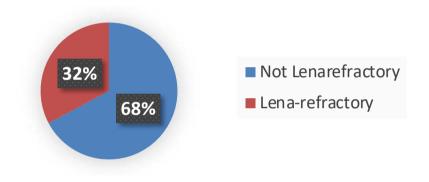
CrCl, creatinine clearance; ECOG PS, Eastern Cooperative Oncology Group Performance Status; LVEF, left ventricular ejection fraction; PD, progressive disease; RRMM, relapsed or refractory multiple myeloma

Dimopulos M et al Lancet 2020; 396: 186–97

CANDOR Trial: DKd versus Kd







...PFS 28.6 months (95% CI 22.7–not estimable [NE]) in the KdD group and 15.2 months (11.1–19.9) in the Kd group (hazard ratio 0.59 [95% CI 0.45–0.78], log-rank p<0.0001)....

Usmani Lancet Oncol 2022

1-2 Febbraio 2022

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PFS Hazard-Ratios Across Prespecified Subgroups

	KdD			
	group	Kd group		Hazard ratio for
	(n=312)	(n=154)		KdD group vs. Kd group
Subgroup	No. of	subjects		(95% CI)
Number of prior lines of therapy				
1	133	67		0.70 (0.42-1.17)
≥2	179	87		0.63 (0.44-0.92)
Prior lenalidomide exposure	111100			
No	189	80	нон	0.87 (0.56-1.35)
Yes	123	74		0.52 (0.34-0.80)
Refractory to lenalidomide				
No	213	99	-0-	0.85 (0.57-1.27)
Yes	99	55	HOH	0.45 (0.28-0.74)
Prior proteasome inhibitor exposure		11.010		
No	33	15		0.93 (0.29-3.02)
Yes	279	139	101	0.64 (0.47-0.88)
Refractory to bortezomib				
No	224	107	HOH	0.59 (0.40-0.85)
Yes	88	47	+0+1	0.83 (0.49-1.41)
			r	
			0.01 0.1 1 10	100
			KdD better Kd better	
			Rub better nu better	

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Carfilzomib, Dexamethasone, and Daratumumab (KdD) vs Kd: Subgroup Analysis of the CANDOR Study by Prior Autologous Stem Cell Transplantation, Lenalidomide Exposure, or Lenalidomide-Refractory Disease

Maria-Victoria Mateos, MD, PhD;¹ Saad Z Usmani, MD;² Hang Quach, MBBS, FRACP, FRCPA, MD;³ Meletios Dimopoulos, MD;⁴ Rafael Fonseca, MD;⁵ Ian McFadden, PhD;⁶ Akeem Yusuf, PhD;⁶ Monica Khurana, MD;⁶ Mihaela Obreja, PhD;⁶ Andrew Spencer, MBBS, FRACP, FRCPA, MD⁷

University Hospital Salamanca/ISAI, Salamanca, Spain; ²Atrium Health, Charlotte, NC, USA; ³St Vincent's Hospital, Melbourne, Victoria, Australia; ⁴National and Kapodistrian University of Athens, School of Medicine, Athens, Greece;

⁵ Mayo Clinic, Phoenix, AZ, USA; ⁶	Amgen Inc., Thousand Oaks, CA, USA;	7Alfred Health-Monash University	Melbourne, Australia
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		v= 312)	Kd (N	i=154)
Baseline Characteristic	With Prior ASCT (n = 194)	Without ASCT (n = 118)	With Prior ASCT (n = 75)	Without ASCT (n = 79)
Median age, years (range) ≤ 64	61 (29–76) 124 (63.9)	70 (37–84) 39 (33.1)	62 (35–75) 50 (66,7)	69 (43–83) 27 (34.2)
65–74 ≥ 75	65 (33.5) 5 (2.6)	56 (47 5) 23 (19 5)	23 (30.7) 2 (2.7)	32 (40.5) 20 (25.3)
ECOG PS, n (%) 0 or 1 2 Missing	187 (96.4) 6 (3.1) 1 (0.5)	108 (91.5) 9 (7.6) 1 (0.8)	73 (97.3) 2 (2.7) 0	74 (93.7) 5 (6.3) 0
ISS stage per IXRS at screening, n (%) I or II III	160 (82.5) 34 (17.5)	92 (78.0) 26 (22.0)	64 (85.3) 11 (14.7)	63 (79.7) 16 (20.3)
Number of prior therapies, n (%) 1 ≥ 2	91 (46.9) 103 (53.1)	53 (44.9) 65 (55.1)	35 (46.7) 40 (53.3)	35 (44.3) 44 (55.7)
Prior therapies, n (%) Proteasome inhibitor Len	177 (91 <i>2</i>) 75 (38.7)	113 (95.8) 48 (40.7)	68 (90.7) 35 (46.7)	71 (89.9) 39 (49.4)
Refractory to Len, n (%)	57 (29.4)	42 (35.6)	23 (30.7)	32 (40.5)

- Overall, baseline characteristics were generally similar between treatment arms
- Of 466 patients in the study, 62% in the KdD arm and 49% in the Kd arm had prior ASCT
- Patients without prior ASCT were typically older and more likely to be Len refractory

ASCT, autologous stem-cell transplant; ECOG PS, Eastern Cooperative Oncology Group Performance Status; ISS, International Staging System; IXRS, Interactive Voice/Web Response System; Kd, carfilzomib and dexamethasone; KdD, carfilzomib, dexamethasone, and daratumumab; Len, lenalidomide.

Mateos MV P-204

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Median PFS by Subgroup

- After a median follow-up of approximately 27 months, PFS consistently favored KdD across all subgroups, consistent with the primary analysis
- Tests for interactions showed no statistically significant differences among subgroups

	KdD	(N=312)	Kd (I	N=154)		
	Events/ Patients	Median PFS, mo	Events/ Patients	Median PFS, mo	Favors KdD Favors Kd	Hazard ratio KdD vs Kd (95% Cl
With prior ASCT						
All patients	88/194	28.1	48/75	13.9	Here i	0.54 (0.37-0.77)
Prior Len exposure	34/75	25.0	27/35	12.0	⊢ ••-1	0.35 (0.20-0.61)
Len refractory	26/57	25.0	18/23	11.1	H • 1	0.30 (0.15-0.59)
Len naive	54/119	28.6	21/40	20.3		0.72 (0.42-1.22)
Without ASCT						
All patients	52/118	NE	37/79	15.8	i ∎ i	0.68 (0.44-1.05)
Prior Len exposure	23/48	NE	20/39	11.1	Fe H	0.62 (0.33-1.15)
Len refractory	20/42	NE	17/32	11.1	H.	0.62 (0.31-1.22)
Len naive	29/70	NE	17/40	24.0	⊢ ●4	0.59 (0.31-1.14)
					0 1 2	
					Hazard Ratio: KdD/Kd (95% CI)	

NE, not evaluable; PFS, progression-free survival.

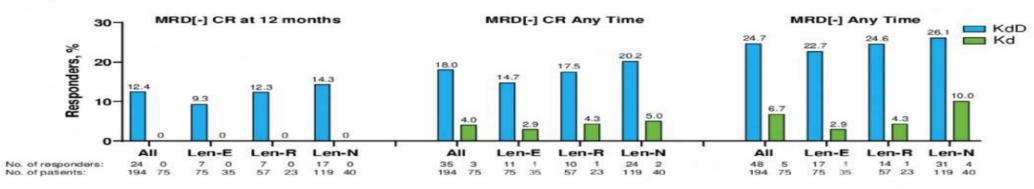
Mateos MV P-204

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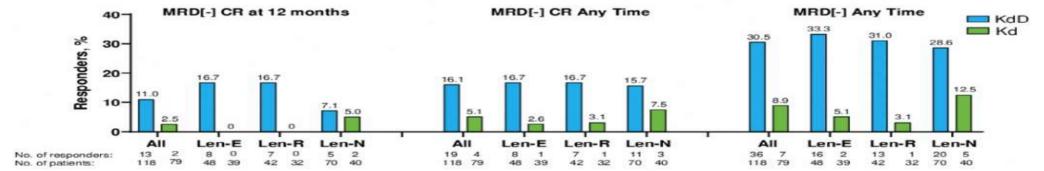
MRD-negative CR Rates by Subgroup

MRD-negative CR rates consistently favored KdD vs Kd across all subgroups*

With prior ASCT



Without ASCT



*MRD status assessed by next generation sequencing at 12 months (during an 8 to 13 month window) or at any time during the study; MRD-negative disease at the 10⁻⁵ level. ASCT, autologous stem-cell transplant; CR, complete response; E, exposed; Kd, carfilzomib and dexamethasone; KdD, carfilzomib, dexamethasone, and daratumumab; Len, Ienalidomide; MRD, minimal residual disease; N, naïve; R, refractory.

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Grade ≥ 3 Adverse Events by Subgroup

Grade ≥ 3 adverse events were consistent across Len subgroups

	With pric	or ASCT	Without prior ASCT		
Grade ≥ 3 adverse events	KdD (n = 192)	Kd (n = 75)	KdD (n = 116)	Kd (n = 78)	
Subgroups, n/N (%)					
All patients	172/192 (89.6)	59/75 (78.7)	96/116 (82.8)	57/78 (73.1)	
Prior Len exposure	69/74 (93.2)	28/35 (80.0)	39/48 (81.3)	28/39 (71.8	
Len-refractory	51/56 (91.1)	20/23 (87.0)	33/42 (78.6)	22/32 (68.8	
Len naive	103/118 (87.3)	31/40 (77.5)	57/68 (83.8)	29/39 (74.4	
AEs of interest, n (%)					
Acute renal failure	6 (3.1)	5 (6.7)	4 (3.4)	5 (6.4)	
Cardiac failure	7 (3.6)	3 (4.0)	5 (4.3)	10 (12.8)	
Daratumumab-related infusion reactions	5 (2.6)	0 (0.0)	2 (1.7)	0 (0.0)	
Ischemic heart disease	9 (4.7)	2 (2.7)	5 (4.3)	3 (3.8)	
Peripheral neuropathy	5 (2.6)	0 (0.0)	1 (0.9)	0 (0.0)	
Respiratory tract infections	65 (33.9)	13 (17.3)	39 (33.6)	12 (15.4)	
Viral infections	16 (8.3)	3 (4.0)	5 (4 3)	0 (0.0)	

AE, adverse event; ASCT, autologous stem-cell transplant; Kd, carfilzomib and dexamethasone; KdD, carfilzomib, dexamethasone, and daratumumab; Len, lenalidomide.

- Rates of treatment-emergent adverse events leading to discontinuation of any study drug:
 - Patients with prior ASCT: 28.6% vs 21.3% for KdD and Kd patients, respectively
 - Patients without prior ASCT: 25.9% vs 28.2% for KdD and Kd patients, respectively
- Median duration of carfilzomib therapy:
 - Patients with prior ASCT: 56 weeks vs 53 weeks for KdD and Kd patients, respectively
 - Patients without prior ASCT: 74 weeks vs 33 weeks for KdD and Kd patients, respectively

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CONCLUSIONS

- These findings are consistent with previous studies and further support the clinical efficacy and safety of KdD among patients with RRMM, with or without prior ASCT
- KdD provides consistent clinical efficacy and safety in the high unmet need group of patients with Len-refractory disease
- The KdD regimen should be considered for RRMM patients beginning at first relapse, including those who are Len-exposed or Len-refractory

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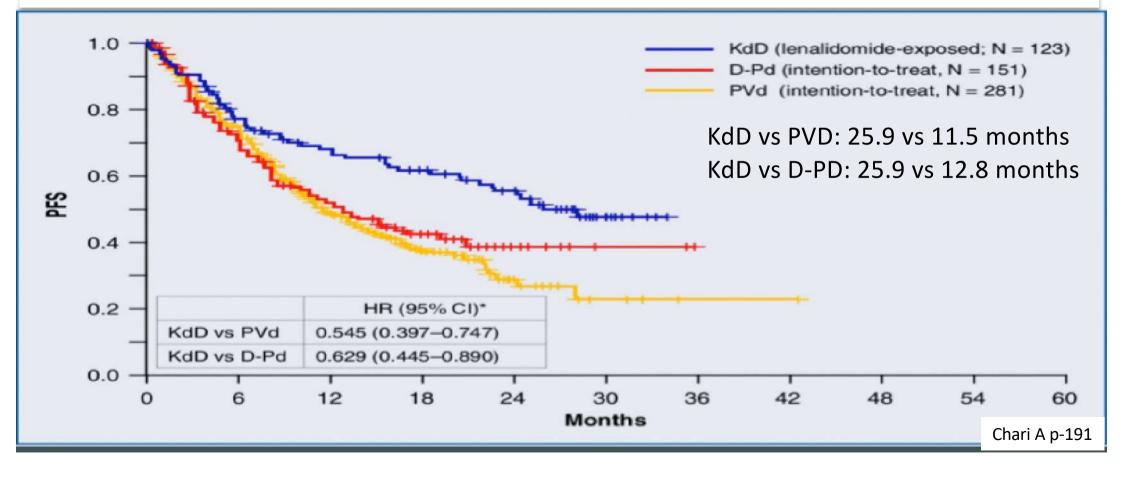


Comparison of Efficacy Outcomes for Carfilzomib Plus Dexamethasone and Daratumumab (KdD) Versus Pomalidomide Plus Bortezomib and Dexamethasone (PVd) and D-Pd in Relapsed or Refractory Multiple Myeloma Ajai Chari,¹ Meletios A. Dimopoulos,² Meral Beksac,³ Xavier Leleu,⁴ Katja Weisel,⁵ Joshua Richter,¹ Franziska Dirnberger,⁶ Karim Iskander,⁶ Akeem Yusuf,⁶ Joseph Mikhael⁷

	CANDOR	OPTIMISMM ⁶	APOLLO ⁷
Data source	CANDOR data (June 2020 data cut)	Richardson et al. Lancet Oncol. 2019	Dimopoulos et al. ASH 2020
Intervention and comparator	KdD (n = 312) vs Kd (n = 154)	PVd (n = 281) vs Vd (n = 278)	D-Pd (n = 151) vs Pd (n = 153)
Comparison of KdD, PVd, and D-Po	d populations (lenalidom	nide-exposed patients)	
Age > 65 years, > 75 years*, %	46.3, 5.7	56.2, 16.4	58.3, 16.6
ISS disease stage: I, II, III, %	50.8, 29.5, 19.7	53.0, 30.2, 16.7	45.0, 33.1, 21.9
\geq 2 prior therapies, %	78.0	60.5	89.4
Lenalidomide exposed, n	123	281	151
Lenalidomide refractory, %	80.5	71.2	79.5
Bortezomib refractory, %	31.7	8.5	Not reported
Comparison of KdD, PVd, and D-Po	d outcomes (lenalidomid	le-exposed patients)	
Median follow-up, months	27.6	15.9	16.9
Median PFS, months	KdD: 25.9 / Kd: 11.1	PVd: 11.2 / Vd: 7.1	D-Pd: 12.4 / Pd: 6.9
Hazard ratio (95%CI)	0.49 (0.33, 0.74)	0.61 (0.49, 0.77)	0.63 (0.47, 0.85)

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Naive comparisons for PFS favoured KdD



Scenario and Subgroup Analysis among Lenalidomide-Exposed or Refractory patients

- In lenalidomide-exposed patients, scenario analyses indicated MAIC results were robust using different sets of matching variables
- In lenalidomide-refractory patients, the median PFS was 28.1 months for unmatched KdD-treated patients and 9.5 months for PVd-treated patients
 - MAIC was not feasible in this subgroup as baseline characteristics were not reported and sample sizes were small

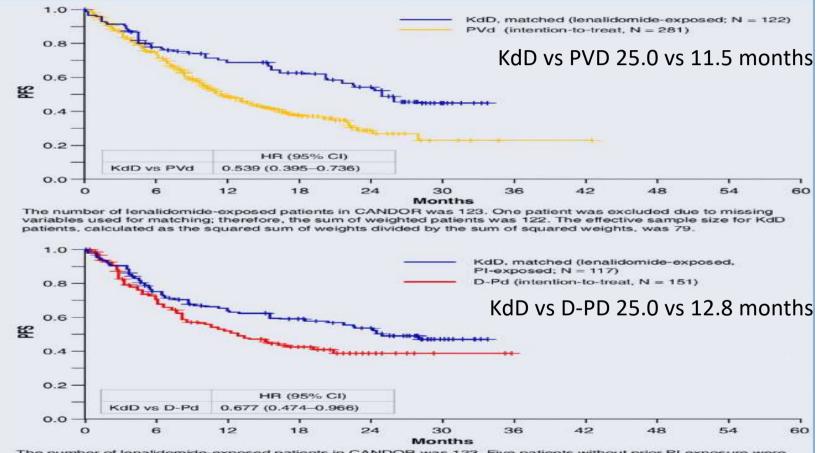
			Hazard ratio	o (95% CI)
	Patient population	Description of analysis	KdD vs D-Pd	KdD vs PVd
	Len-exposed	Matched: Base case	0.677 (0.474–0.966)	0.539 (0.395–0.736)
Scenario	Len-exposed	Matched: included refractoriness to last previous regimen in matching algorithm	0.685 (0.480–0.978)	0.539 (0.395–0.736)
analysis	Len-exposed	Matched: included ECOG status in matching algorithm	0.690 (0.479–0.994)	0.551 (0.404–0.751)
	Len-exposed	Matched: included prior stem-cell transplant in matching algorithm	0.676 (0.473-0.964)	0.527 (0.386–0.721)
Subgroup analysis	Len-refractory	Unmatched	PFS curve not reported	0.468 (0.326–0.671)

D-Pd, daratumumab, pomalidomide, and dexamethasone; ECOG, Eastern Cooperative Oncology Group; KdD, carfilzomib, dexamethasone, and daratumumab; Len, lenalidomide; PFS, progression-free survival; PVd, pomalidomide, bortezomib, and dexamethasone.

Chari A p-191

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The number of lenalidomide-exposed patients in CANDOR was 123. Five patients without prior PI exposure were excluded because APOLLO required patients to have prior PI therapy, 1 other patient was excluded due to missing variables used for matching. Therefore, the sum of weighted patients was 117. The effective sample size for KdD patients, calculated as the squared sum of weights divided by the sum of squared weights, was 108.

Chari A p-191

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CONCLUSIONS

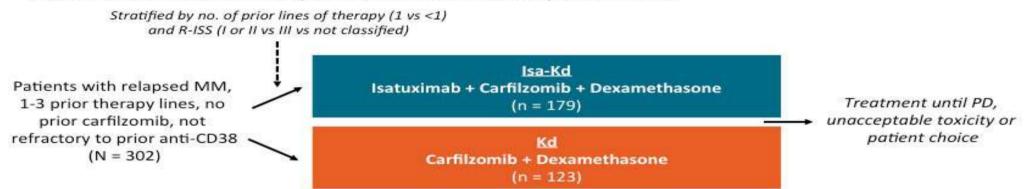
- This analysis shows that in patients with RRMM and previous lenalidomide exposure, KdD extended PFS compared with PVd and D-Pd in both naive and matching-adjusted comparisons
- A comparison of overall survival was not undertaken due to immature data in the studies considered for this analysis
- Results suggest KdD offers clinically meaningful improvements over pomalidomide-based triplet regimens for patients with RRMM previously exposed and/or refractory to lenalidomide

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IKEMA: Study Design

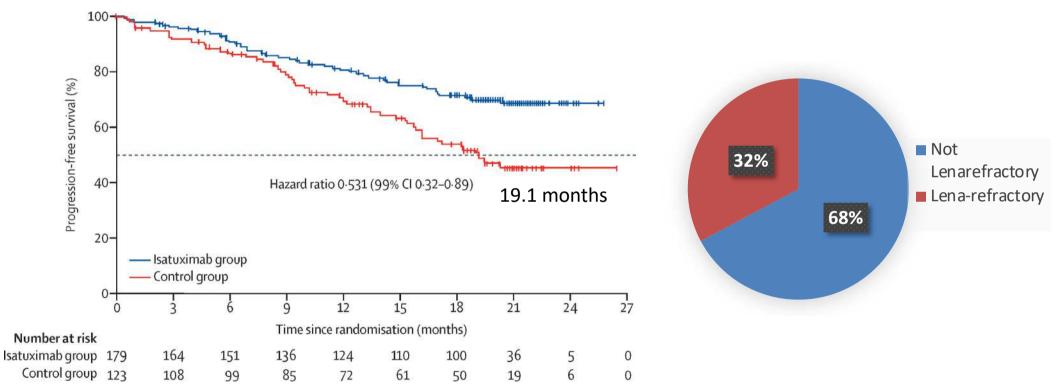
Multicenter, randomized, open-label, active-control phase III trial



Isatuximab: 10 mg/kg on Days 1, 8, 15, 22 in cycle 1, then Q2W. Carfilzomib: 20 mg/m² on Days 1, 2; 56 mg/m² on Days 8, 9, Days 15, 16 in cycle 1; 56 mg/m² on Days 1, 2, 8, 9, 15, 16 in subsequent cycles. Dexamethasone: 20 mg on Days 1, 2, 8, 9, 15, 16, 22, 23 of each cycle of 28-day cycles.

- Primary endpoint: PFS by IRC
- Key secondary endpoints: ORR, ≥VGPR, MRD negativity, CR, OS, safety

Moreau. Lancet. 2021



IKEMA Trial: Isatuximab-Kd versus Kd

The Lancet 2021 3972361-2371DOI: (10.1016/S0140-6736(21)00592-4)

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Isatuximab Plus Carfilzomib and Dexamethasone in Relapsed Multiple Myeloma Patients With High-Risk Cytogenetics: IKEMA Subgroup Analysis Ivan Spicka', Philippe Moreau², Thomas G. Martin', Thierry Facon⁴, Gracia Martinez⁴, Albert Oriol⁴, Youngil Koh², Andrew Lim⁴, Gabor Mikala⁴, Laura Rosiñol¹⁰, Münci Yağci¹¹, Michele Cavo¹², Marie-Laure Risse¹¹, Gaëlle Asset¹⁴, Sandrine Macé¹², Helgi van de Velde¹⁴, Kwee Yong¹

- High-risk cytogenetics was assessed by central laboratory and patients were classified as high risk if abnormalities were present in ≥1 of the following: del(17p): 50% cut-off; t(4;14) and/or t(14;16): 30% cut-off
- In addition, assessment of gain(1q21) was defined as ≥3 copies: 30% cut-off. Amplification of 1q21 was also evaluated and was defined as ≥4 copies: 30% cut-off
- Median PFS and corresponding CIs were calculated by the Kaplan-Meier method. HR estimates were determined using the stratified Cox proportional hazard model
- Adverse events (AEs) were graded per the National Cancer Information Center Common Terminology Criteria for AEs (NCI-CTCAE) version 4.03

Spicka et al P-213

Patients characteristics

	High	h risk	Standard risk			
Patient characteristic	lsa-Kd (n=42)	Kd (n=31)	lsa-Kd (n=114)	Kd (n=77)		
Age in years, median	61.7 (37-83)	62.5 (38-80)	63.5 (38-86)	63.0 (33-90		
(range) <65	23 (54.8)	17 (54.8)	54 (47,4)	41 (53.2)		
<03 ≥65 to <75	15 (35.7)	10 (32.3)	50 (43.9)	30 (39.0)		
≥75	4 (9.5)	4 (12.9)	10 (8.8)	6 (7.8)		
ISS stage at study entry, n						
Stage I	20 (47.6)	20 (64.5)	61 (53.5)	41 (53.2)		
Stage II	15 (35.7)	6 (19.4)	37 (32.5)	21 (27.3)		
Stage III	7 (16.7)	5 (16.1)	16 (14.0)	14 (18.2)		
Unknown	0	0	0	1 (1.3)		
R-ISS state at study entry, n (%)						
Stage I	0	0	45 (39.5)	33 (42.9)		
Stage II	35 (83.3)	26 (83.9)	60 (52.6)	39 (50.6)		
Stage III	7 (16.7)	5 (16.1)	8 (7.0)	3 (3.9)		
Not classified	0	0	1 (0.9)	2 (2.6)		
Present Absent	18 (42.9) 24 (57.1)	16 (51.6) 15 (48.4)	0	0		
t(4;14)	21(27117	15 (1011)	111(100)			
Present	22 (52.4)	20 (64.5)	0	0		
Absent	20 (47.6)	10 (32.3)	114 (100)	77 (100)		
t(14;16)						
Present	6 (14.3)	0	0	0		
Absent	36 (85.7)	31 (100)	114 (100)	77 (100)		
gain(1q21)						
Present	25 (59.5)	19 (61.3)	47 (41.2)	31 (40.3)		
Absent	17 (40.5)	11 (35.5)	65 (57.0)	43 (55.8)		
Unknown/missing	0	1 (3.2)	2 (1.8)	3 (3.9)		
Prior lines of therapy, median (range)	1 (1-3)	2 (1-3)	2 (1-4)	2 (1-4)		
Pat <mark>ionts refractory to treat</mark>						
Refractory to IMID	16(38.1)	13 (41.9)	52 (45.6)	37 (48.1)		
Refractory to Pl	14 (33.3)	12 (38.7)	34 (29.8)	25 (32.5)		
Refractory to IMiD and Pl	6 (14.3)	5 (16.1)	24 (21.1)	17 (22.1)		
Refractory to last regimen	20 (47.6)	18 (58.1)	59 (51.8)	43 (55.8)		

"High-risk status was defined as presence of del(17p), t(4;14), or t(14;16) by FISH. Cytogenetics was performed by a central laboratory with cut-off 50% for del(17p), 30% for t(4;14) and t(14;16). The cut-off for gain(1q21) was 30% d, dexamethasone; IMID, immunomodulatory drug; Isa, isatuximab; ISS, International Staging System; K, carfilzomib; PI, proteasome inhibitor; R-ISS, Revised International Staging System

Progression free survival across cytogenetic risk groups

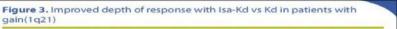
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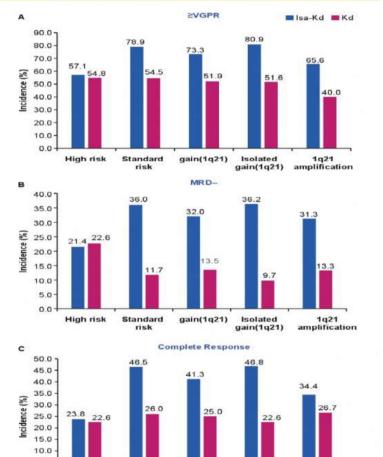
Bologna

Subgroup	lsa-Kd Group (n/N)	Kd Group (n/N)		Hazard ratio (95% Cl)
All patients	48/179	55/123	Heri	0.531 (0.359–0.786
High-risk chromosom	al abnorm	ality*		
At least one	17/42	15/31	H	0.724 (0.361-1.451
None	27/114	35/77	HO-I	0.440 (0.266–0.728
del(17p)				
Present	6/18	7/16		0.837
Absent	39/143	43/96	H e -1	0.510 (0.330–0.788
t(4;14)				
Present	10/22	11/20		0.549 (0.232–1.301
Absent	34/137	39/89	H-1	0.491 (0.310–0.778
t(14;16)				
Present	4/6	0/0		NC
Absent	41/153	50/111	H -	0.501 (0.331–0.757
gain(1q21)				
Present	26/75	26/52	He	0.569 (0.330-0.981
Absent	19/84	24/55	H - -1	0.443 (0.242–0.812
Isolated gain(1q21)	13/47	15/31	H•	0.462 (0.219–0.972
No gain(1q21) and standard risk	14/65	20/43	H O -1	0.396 (0.199–0.787
		0.0	0.5 1.0 1.5	2.0 2.5
	Isa-Ko	d better -	→	- Kd better
h-risk cytogenetics defined onfidence interval; d, dexan	as the preser	nce of del(1	^{7 p)} Spick	-кањенег a et al P-2

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Standard

risk

gain(1q21)

CR, complete response; d, dexamethasone; Isa, isatuximab; K, carfilzomib; MRD-, minimal residual disease

Isolated

gain(1q21)

5.0 0.0

High risk

negativity; VGPR, very good partial response

Safety

1q21

amplification

- Isa-Kd had a manageable safety profile in all subgroups (Table 2)
- Grade \geq 3 TEAEs were more common with Isa-Kd vs Kd in patients with high-risk CA and in patients with gain(1g21); however, the incidence of serious TEAEs and TEAEs with fatal outcome during study treatment was similar in both arms for patients with high-risk CA
- Fewer patients treated with Isa-Kd vs Kd experienced TEAEs leading to definitive discontinuation among all cytogenetic risk groups
- Selected TEAEs are shown in Table 3

Table 2. Safety summary

	High	risk	Standa	ard risk	gain(1q21)		
	Isa-Kd (n=42)	Kd (n=30)	lsa-Kd (n=113)	Kd (n=77)	Isa-Kd (n=73)	Kd (n=51)	
Patients with any TEAE	42 (100)	28 (93.3)	108 (95.6)	77 (100)	72 (98.6)	50 (98.0)	
Patients with any Grade ≥3 TEAE	36 (85.7)	19 (63.3)	86 (76.1)	59 (76.6)	59 (80.8)	33 (64.7)	
Patients with any Grade 5 TEAE*	0	0	5 (4.4)	4 (5.2)	3 (4.1)	1 (2.0)	
Patients with any serious TEAE	27 (64.3)	20 (66.7)	65 (57.5)	46 (59.7)	45 (61.6)	28 (54.9)	
Patients with any TEAE leading to definitive discontinuation	2 (4.8)	3 (10.0)	11 (9.7)	14 (18.2)	5 (6.8)	6 (11.8)	
*TEAE with fatal outcome during d, dexamethasone; Isa, isatuximal			eatment-em	erg Spic	ka et al	P-213	

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Table 3. Selected TEAEs - safety population

		High	risk			Standa	ard risk			gain(1q21)	
	Isa-Kd	(n=42)	Kd (r	n=30)	Isa-Kd	(n=113)	Kd (r	n=77)	Isa-Kd (n=73)		Kd (n=51)	
Selected TEAEs by SOC or SMQ or PT, n (%)	Any grade	Grade ≥3	Any grade	Grade ≥3	Any grade	Grade ≥3	Any grade	Grade ≥3	Any grade	Grade ≥3	Any grade	Grade ≥3
nfections and infestations (SOC)	35 (83.3)	15 (35.7)	23 (76.7)	8 (26.7)	98 (86.7)	46 (40.7)	67 (87.0)	24 (31.2)	65 (89.0)	30 (41.1)	42 (82.4)	12 (23.5)
Upper respiratory tract infection	16 (38.1)	2 (4.8)	2 (6.7)	1 (3.3)	41 (36.3)	4 (3.5)	23 (29.9)	1 (1.3)	29 (39.7)	3 (4.1)	12 (23.5)	2 (3.9)
Pneumonia	12 (28.6)	7 (16.7)	8 (26.7)	2 (6.7)	25 (22.1)	19 (16.8)	12 (15.6)	11 (14.3)	17 (23.3)	15 (20.5)	9 (17.6)	5 (9.8)
Bronchitis	9 (21.4)	0	6 (20.0)	0	26 (23.0)	4 (3.5)	7 (9.1)	0	15 (20.5)	1 (1.4)	3 (5.9)	0
Others												
Hypertension	13 (31.0)	9 (21.4)	6 (20.0)	2 (6.7)	45 (39.8)	25 (22.1)	31 (40.3)	22 (28.6)	27 (37.0)	16 (21.9)	12 (23.5)	10 (19.6)
Infusion-related reaction	23 (54.8)	1 (2.4)	0	0	44 (38.9)	0	4 (5.2)	0	33 (45.2)	1 (1.4)	2 (3.9)	0

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CONCLUSIONS

- The addition of Isa to Kd improved PFS in patients with high-risk CA [del(17p), t(4;14), and/or t(14;16)] and improved PFS and depth of response in patients with 1q21 gain or amplification, with a manageable safety profile, which was consistent with the benefit observed in the overall IKEMA population
- Isa-Kd is a new treatment option for the difficult-to-treat subgroup of patients with RMM and high-risk cytogenetics

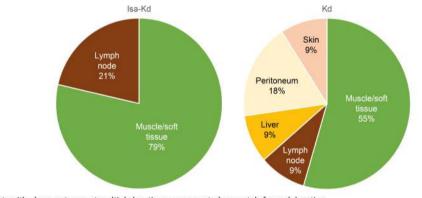
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Isatuximab Plus Carfilzomib and Dexamethasone in Patients With Relapsed Multiple Myeloma and Soft-Tissue Plasmacytomas: IKEMA Subgroup Analysis

Patients and treatment exposure

- At study entry, 19 (6.3%) patients had softtissue plasmacytomas as per IRC: 12/179 (6.7%) had Isa-Kd and 7/123 (5.7%) had Kd
- The median (range) number of cycles was 10.5 (1–21) in the Isa-Kd arm versus 8.0 (1– 20) in the Kd arm
- The overall median (range) duration of exposure was 41.9 (2–87) weeks for Isa-Kd versus 29.9 (4–83) for Kd

Figure 2. Localization of plasmacytomas in each study arm in patients with soft-tissue plasmacytomas



Patients with plasmacytomas at multiple locations were counted separately for each location d, dexamethasone; Isa, isatuximab; K, carfilzomib

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RESULTS

Table 2. Efficacy of Isa-Kd vs Kd in patients with relapsed MM and pre-existing soft-tissue plasmacytomas

Outcome	lsa-Kd (n=12)	Kd (n=7)
Median PFS, months (95% CI)	18.76 (4.435–NC)	NC (0.986–NC)
	$HR^{a} = 0.574 (0)$	0.125–2.640)
ORR (sCR, CR, VGPR or PR)	6 (50.0)	2 (28.6)
VGPR or better	4 (33.3)	1 (14.3)
MRD negativity rate ^b	4 (33.3)	1 (14.3)
Complete response (sCR or CR)	3 (25.0)	0
MRD negativity ^b and complete response (sCR or CR)	3 (25.0)	0

Data are n (%) unless otherwise specified

^aDerived using unstratified Cox proportional hazard model with treatment as covariate

¹For analysis purposes, subjects in the ITT population but without MRD assessment will be considered MRD-positive

CI, confidence interval; CR, complete response; d, dexamethasone; HR, hazard ratio; Isa, isatuximab; ITT, intent-to-treat; K, carfilzomib; MRD, minimal residual disease; ORR, overall response rate; PFS, progression-free survival; PR, partial response; sCR, stringent complete response; VGPR, very good partial response

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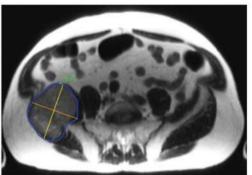


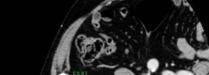
RESULTS

Figure 3. CT scans at baseline and during treatment for two patients receiving Isa-Kd

A. Patient 1 baseline

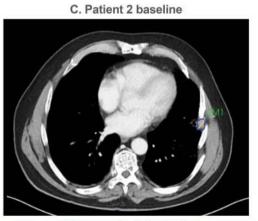
B. Patient 1 Cycle 12, Day 23





Radiological imaging of Isa-Kd-induced responses: Examples

Two patients in the Isa-Kd arm presented with a plasmacytoma in the muscle soft-tissue at baseline. Patient 1 had 88% shrinkage in plasmacytoma versus baseline at Cycle 12, Day 23 (Figure 3A–B). His best overall response was a partial response. Patient 2 showed no measurable lesion versus baseline at Cycle 6, Day 25 (Figure 3C–D) and his best overall response was a complete response



CT, computed tomography; d, dexamethasone; Isa, isatuximab; K, carfilzomib



D. Patient 2 Cycle 6, Day 25

CONCLUSIONS

- In 19 patients with relapsed MM and plasmacytomas, Isa-Kd improved PFS and depth of response compared with Kd alone, with a manageable safety profile, consistent with the benefit observed in the IKEMA study overall population
- In the Isa-Kd arm, the ORR in patients with plasmacytomas was lower than that in the overall IKEMA population; however, MRD negativity rates (33.3% and 29.6%), and CR with MRD negativity rates (25.0% and 20.1%) were similar to those observed in the overall population, respectively