### **Antibody-drug conjugates**

### ADC per il trattamento del paziente con MMRR

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dalla teoria alla pratica

### **TORINO 3-4** MARZO **2023**

### **Disclosures of Sara Bringhen**

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Amgen					x		
BMS					x	x	
GSK						x	
Janssen					x	x	
Takeda			x			x	
Sanofi			x		х	x	
Pfizer						x	

# Outcomes of a majority of patients with RRMM remain suboptimal potentially due to retreatment with prior therapies



- Final 2L+ population was **1118 patients** (544 patients excluded d/t stem cell therapy during index LOT or in the prior 100 days)
- Patients must have had active RRMM and received ≥1 prior line of treatment
- Time-to-event outcomes, including PFS, DOT, and TTNT, were evaluated with Kaplan-Meier survival analysis
- The following overlapping sub-cohorts were created based on patients' prior exposure and refractory status:

### CD38-N (n=757) (no prior exposure to an

anti-CD38 agent)

### len-E (n=1123) (prior exposure to

lenalidomide)

### CD38-E (n=764)

(prior exposure to an anti-CD38 agent)

### DCR (n=713)

(refractory to a PI and an immunomodulatory therapy)

After 2L+ index LOT, 57.3% of the overall population progressed to a subsequent LOT

POPULATION

**RRMM** Patients

Despite prior exposure, **many were retreated with an anti-CD38 agent** both during and after index LOT (49.0% and 33.7%, respectively)

Median PFS and TTNT in the overall 2L+ cohort were **21.8** and 18.1 months; shortest in DCR (**6.7** and 7.8 months) and CD38-E cohorts (**5.6** and 8.6 months)

Median DOT was short across overall 2L+ patients (7.2 months at 2L) and sub-cohorts, and generally remained consistent across LOTs



\*Overall category is not included for the 2L+ population and CD38-N since LOTs are not mutually exclusive; individual patients could have multiple index dates and appear in multiple LOTs. This does not apply to the len E, DCR, and CD38 E sub cohorts in which patients had a single index date following the exposure or refractory status of interest. DOT was measured from the initiation of index line of therapy to the stop of index line of therapy; TTNT was measured from the initiation of index line of therapy to initiation of the following line of therapy. These figures were first presented in Richter J at ASH. December 2022. Poster presentation 1891.

The figure was first presented in Richter J. ASH. December 2022. Poster presentation 1891.

These findings support the need for increased uptake of new treatments with novel mechanisms of action earlier in the patient journey



#### LE NUOVE FRONTIERE DELL'IMMUNOTERAPIA PER LA CURA DEL MIELOMA MULTIPLO

dalla teoria alla pratica

• Richter J, et al. Presented at the 64th American Society of Hematology Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Poster 1891.

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## Single-Agent Belantamab Mafodotin in Patients with Relapsed or Refractory Multiple Myeloma (RRMM): Final Analysis of the DREAMM-2 trial

The efficacy and safety profile of belantamab mafodotin was consistent throughout the duration of DREAMM-2



In the primary<sup>1</sup> and 13-month follow-up of DREAMM-2,<sup>2</sup> belantamab mafodotin monotherapy demonstrated rapid, deep, and durable responses with a manageable safety profile for patients with RRMM



This study analysed the efficacy and safety profile of belantamab mafodotin using the final data from the DREAMM-2 trial, corresponding to an approximate 3-year follow-up<sup>3</sup>

RRMM, relapsed/refractory multiple myeloma.

1. Lonial S, et al. *Lancet Oncol*. 2020;21:207-221. 2. Lonial S, et al. *Cancer*. 2021;127:4198-4212. 3. Nooka A, et al. Presented at the 64th American Society of Hematology Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract P3246.

LE NUOVE FRONTIERE DELL'IMMUNOTERAPIA PER LA CURA DEL **MIELOMA MULTIPLO** *dalla teoria alla pratica* 



Here we report the end-of-study efficacy and safety analysis of DREAMM-2 for the recommended dose of 2.5 mg/kg

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STUDY overview dreamm-2

- Key Inclusion Criteria:
  - ≥3 prior lines of therapy
  - ECOG performance status of 0-2
  - Refractory to PI and an immunomodulatory agent, and refractory/intolerant to an anti-CD38 mAb
- Primary endpoint: ORR
- Key secondary endpoints: PFS, OS, DOR, safety, ocular symptoms, HRQoL
- Eye exams, including a corneal exam and assessment of change in BCVA, were conducted at baseline and prior to each dose

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• The GSK KVA scale was used for grading ocular events; ocular symptoms were graded per CTCAE



LE NUOVE FRONTIERE DELL'IMMUNOTERAPIA PER LA CURA DEL **MIELOMA MULTIPLO** *dalla teoria alla pratica* 1. Nooka A, et al. Presented at the 64th ASH Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract P3246.

# DREAMM-2 study patients were heavily pretreated with a median of 7 prior lines of therapy

Characteristic	2.5 mg/kg Cohort (N=97)
Age, median (range), years 18 to <65 years 65 to <75 years ≥75 years	65 (60-70) 45 (46) 39 (40) 13 (13)
Sex Male Female	51 (53) 46 (47)
Race White Black or African American	72 (74) 16 (16)
Renal impairment per eGFR (mL/min/1.73 m <sup>2</sup> ) Normal ( $\geq$ 90) Mild ( $\geq$ 60 to <90) Moderate ( $\geq$ 30 to <60) Severe ( $\geq$ 15 to <30)	19 (20) 48 (49) <b>24 (25)</b> 2 (2)
Time from initial diagnosis, median (range), years	5.49 (4.01-7.02)
ISS disease stage at screening Stage I Stage II Stage III Unknown	21 (22) 33 (34) <b>42 (43)</b> 1 (1)
Cytogenetic abnormalities t(11;14) t(14;20) Del 13 Hyperdiploidy Other	16 (16) 3 (3) 18 (19) 7 (7) 28 (29)
High-risk cytogenetics 17p13del t(4;14) t(14;16) 1q21+	<b>41 (42)</b> 16 (16) 11 (11) 7 (7) 25 (26)

The chart has been independently created by GSK from original data first presented in Lonial S et al. Lancet Oncol. 2020.

Characteristic	2.5 mg/kg Cohort (N=97)
<b>Type of myeloma</b> IgG Non-IgG	65 (67) 33 (33)
Extramedullary disease	22 (23)
Prior lines of therapy <sup>*</sup> Median (range) ≤4 lines >4 lines	<b>7 (3-21</b> ) 16 (16) 81 (84)
Prior therapies received Proteasome inhibitor Bortezomib Carfilzomib Immunomodulatory drug Lenalidomide Pomalidomide Anti-CD38 monoclonal antibody Daratumumab Isatuximab	5 (98) 74 (76) 97 (100) 89 (92) 97 (100) 3 (3)
Refractory to prior therapies <sup>†</sup> Proteasome inhibitor Bortezomib Carfilzomib Immunomodulatory drug Lenalidomide Pomalidomide Anti-CD38 monoclonal antibody Daratumumab Isatuximab	74 (76) 63 (65) 87 (90) 84 (87) 97 (100) 3 (3)

All patients were refractory to a proteasome inhibitor, immunomodulatory drug, and an anti-CD38 monoclonal antibody as per eligibility criteria



# Responses observed with belantamab mafodotin in DREAMM-2 were rapid, deep, and durable<sup>1</sup>

Efficacy	Belantamab mafodotin 2.5 mg/kg Q3W (N=97)ª	Belantamab mafodotin 3.4 mg/kg Q3W (N=99)
ORR, % (97.5% CI)	32 (21.7-43.6)	35 (24.8-47)
Median time to response, months (95% CI)	1.5 (1-2.1)	1.4 (0.9-2.1)
MRD <sup>b</sup> negativity rate in patients who achieved ≥VGPR, % (95% CI)	36 (12.8-64.9)	23 (5-53.8)
Median DOR, months (95% CI)	12.5 (4.2-19.3)	6.2 (4.8-18.7)
Median PFS, months (95% CI) Median PFS in patients who achieved ≥VGPR, months (95% CI)	2.8 (1.6-3.6) 14 (9.7-NR)	3.9 (2-5.8) 16.8 (7.7-NR)
Median OS, months (95% CI) Median OS in patients who achieved ≥VGPR, months (95% CI) <sup>c</sup>	15.3 (9.9-18.9) 30.7 (19.7-37.9)	14 (10-18.1) 35.5 (14.1-NR)

This chart has been independently created by GSK from original data first presented in Nooka A et al at ASH. December 2022. Poster presentation 3246.



The median DOR and OS reported here are longer than those reported at the 13-month update<sup>2</sup>

<sup>a</sup>Currently the only recommended dose as the 3.4 mg/kg dose was not further pursued. <sup>b</sup>Minimal residual disease was measured by next generation sequencing with a threshold of 10<sup>-5</sup>. <sup>c</sup>Median OS in ≥VGPR was a post hoc analysis.

dalla teoria alla pratica 1. Nooka A, et al. Presented at the 64th ASH Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract P3246.



When examining those achieving VGPR or better, responses were even deeper and more durable

Median OS (95% CI) for the 2.5 mg/kg cohort was 15.3 (9.9-18.9) months<sup>a</sup>

For patients in the 2.5 mg/kg cohort<sup>a</sup> who achieved ≥VGPR:

- Estimated median OS was 30.7 months (n=19, 20%)
- Estimated median PFS was 14.0 months
- Median DoR (95% CI) was 12.5 months (4.2-19.3)

<sup>a</sup>Currently the only recommended dose as the 3.4 mg/kg dose was not further pursued.

Cl, confidence interval; DoR, duration of response; OS, overall survival; PFS, progression-free survival; VGPR, very good partial response.



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#### LE NUOVE FRONTIERE DELL'IMMUNOTERAPIA PER LA CURA DEL MIELOMA MULTIPLO

dalla teoria alla pratica Nooka A, et al. Presented at the 64th American Society of Hematology Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract P3246.

### DREAMM-2 Results in Special Populations



Prognosis remains especially poor for hard-to-treat special populations with RRMM, including
patients with high-risk cytogenetic markers, renal impairment, and extramedullary disease



### High-risk Cytogenetic Markers

Patients can develop cytogenetic abnormalities. Standard therapies may be less effective in this population

### **Renal Impairment**

Common in RRMM patients and can develop as a result of some treatments

Necessitates avoiding certain therapies or having doses adjusted

### **Extramedullary Disease**

Some patients at baseline or may have malignant plasma cells outside the bone marrow

There are no treatment guidelines and patients have a poor prognosis

The 13-month follow-up included subanalyses to explore the safety and efficacy of belantamab mafodotin these special hard-to-treat patient populations



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### DREAMM 2: Efficacy of belantamab mafodotin in special populations

Independent Review Committee-Assessed Best Response <sup>*</sup>	Overall (N=97)	HR-IMWG (N=26) <sup>†</sup>	HR-cyto (N=41)‡	SR-cyto (N=56) <sup>§</sup>	Normal renal function (N=19) <sup>¶</sup>	Mild renal impairment (N=48) <sup>#</sup>	Moderate renal impairment (N=24) <sup>**</sup>	Extramedullary disease (N=22)
ORR, n (%) <sup>††</sup>	31 (32)	9 (35)	12 (29)	19 (34)	7 (37)	16 (33)	8 (33)	1 (5)
(97.5%/95% Cl) <sup>‡‡</sup>	(21.7–43.6)	(17.2–55.7)	(16.1–45.5)	(21.8–47.8)	(16.3–61.6)	(20.4–48.4)	(15.6–55.3)	(-)
sCR	2 (2)	0 (0)	1 (2)	1 (2)	1 (5)	0 (0)	1 (4)	0 (0)
CR	5 (5)	2 (8)	3 (7)	2 (4)	0 (0)	2 (4)	3 (13)	0 (0)
VGPR	11 (11)	5 (19)	5 (12)	6 (11)	1 (5)	6 (13)	4 (17)	0 (0)
PR	13 (13)	2 (8)	3 (7)	10 (18)	5 (26)	8 (17)	0 (0)	0 (0)
MR, n (%)	4 (4)	3 (12)	3 (7)	1 (2)	2 (11)	2 (4)	0	2 (9)
SD, n (%)	27 (28)	5 (19)	9 (22)	18 (32)	6 (32)	13 (27)	8 (33)	8 (36)
CBR, n (%) <sup>§§</sup>	35 (36)	12 (46)	15 (37)	20 (36)	9 (47)	18 (38)	8 (33)	3 (14)
(95% CI)	(26.6–46.5)	(26.6–66.6)	(22.1–53.1)	(23.4–49.6)	(24.4–71.1)	(24.0–52.6)	(15.6–55.3)	(2.9–34.9)
Median DoR (95% CI)	11.0 (4.2-NR)	10.3 (1.4-13.1)	10.3 (1.4-13.1)	NR (4.2-NR)	4.2 (1.4-NR)	12.5 (2.2-NR)	13.1 (4.2-NR)	1.4 <sup>¶¶</sup>
Median PFS (95% CI)	2.8 (1.6-3.6)	3.3 (0.9-7.1)	2.1 (0.8-3.7)	2.9 (1.6-4.8)	3.0 (1.3-6.2)	2.2 (2.0-3.6)	3.7 (1.0-12.5)	1.1 (0-8.3)
Median estimated OS (95% CI)	13.7 (9.9-NR)	9.9 (4.3-NR)	13.1 (8.2-NR)	17.0 (12.4-NR)	14.9 (7.7-NR)	13.7 (11.4-NR)	NR (5.1-NR)	13.4 (2.7-NR)

This chart has been independently created by GSK from original data first presented in Lonial S et al. Cancer. 2021.

The efficacy of belantamab mafodotin in patients with high-risk cytogenetic markers or renal impairment was similar to the overall population. Patients with EMD had comparably poorer outcomes, and additional studies are necessary to understand if responses vary by EMD subtype.

\*Responses assessed in the intention-to-treat population by an independent review committee according to the International Myeloma Working Group Uniform Criteria Consensus Recommendations. Six patients (6%) were not evaluable for response and were treated as non-responders; †Defined as patients with any of t(4:14), t(14:16), or 17p13del; ‡Defined as patients with any of t(4:14), t(14:16), or 1q21+; <sup>§</sup>Defined as patients with none of t(4:14), t(14:16), or 1q21+; <sup>§</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90 mL/min/1.73 m<sup>2</sup>; <sup>#</sup>Defined as patients with eGFR  $\geq$ 90

CBR = clinical benefit rate; CI = confidence interval; CR = complete response; DoR = duration of response; eGFR = estimated glomerular filtration rate; EMD = extramedullary disease; HR-cyto = high-risk cytogenetics; HR-IMWG = high-risk cytogenetics per International Myeloma Working Group criteria; MR = minimal response; NR = not reached; ORR = overall response rate; PR = partial response; sCR = stringent complete response; SD = stable disease; SR = standard-risk cytogenetics; VGPR = very good partial response.

Lonial S et al. Cancer. 2021.



### DREAMM 2: Efficacy of belantamab mafodotin in special populations





These figures were first presented in Lonial S et al. Cancer. 2021.

Patients with high-risk cytogenetic markers exhibited a duration of response and overall survival comparable with the overall population. Efficacy outcomes were similar in the HR-IMWG (excluding 1q21+) and HR-cyto(including 1q21+) groups (median DoR, 10.3 months for both).

\*Responses were assessed in the intention-to-treat population (including all randomly assigned patients) by an independent review committee according to the International Myeloma Working Group Uniform Criteria Consensus Recommendations; †Defined as patients with any of t(4:14), t(14:16), or 17p13del; ‡Defined as patients with any of t(4:14), t(14:16), 17p13del, or 1q21+; \$Defined as patients with none of t(4:14), t(14:16), 17p13del, or 1q21+;

HR-cyto = high-risk cytogenetics; HR-IMWG = high-risk cytogenetics per International Myeloma Working Group criteria; SR-cyto = standard-risk cytogenetics. Lonial S et al. Cancer. 2021.

TORINO 3-4 MARZO 2023 Overall AE profile of belantamab mafodotin was consistent with previous reports<sup>1-3</sup>

Safety and dose modifications	Belantamab mafodotin 2.5 mg/kg Q3W (N=95)ª	Belantamab mafodotin 3.4 mg/kg Q3W (N=99)
Grade ≥3 AE, n (%)	80 (84)	82 (83)
Keratopathy <sup>b</sup>	29 (31)	25 (25)
Anemia	20 (21)	28 (28)
Thrombocytopenia	21 (22)	32 (32)
AE-related dose modifications, n (%)		
Dose reduction	34 (36)	44 (44)
Dose delay	51 (54)	61 (62)
Permanent discontinuation	11 (12)	12 (12)
Permanent discontinuation due to ocular events	5 (5)	3 (3)

This chart has been independently created by GSK from original data first presented in Nooka A et al in ASH. December 2022. Poster presentation 3246.



Response was maintained in patients with dose delays >63 days

<sup>a</sup>N=95 in the safety analysis in the 2.5 mg/kg cohort. <sup>b</sup>Ocular events (as reported here) and ocular symptoms were assessed using CTCAE scale.

AE, adverse event; BCVA, best corrected visual acuity; Q3W, every three weeks; QoL, quality of life.



Ocular AE<sup>a</sup> profile of belantamab mafodotin was consistent with previous reports and was manageable<sup>1-3</sup>

	Belantamab	
Most common ocular mafodotin events, <sup>a</sup> n (%) 2.5 mg/kg Q3W (N=95) <sup>b</sup>		No new safety signals were noted when comparing the incidence of AEs with earlier reports from this study
Keratopathy	67 (71)	
Blurred vision	24 (25)	The most commonly reported any-grade ocular AEs in both cohorts included keratonathy, blurred vision, and BCVA
BCVA reduced to 20/50	46 (48)	reduced to 20/50 or worse

Blurred vision includes the preferred terms vision blurred, diplopia, visual acuity reduced, and visual impairment.

This chart has been independently created by GSK from original data first presented in Nooka A et al at ASH. December 2022. Poster presentation 3246.

<sup>a</sup>Ocular events (as reported here) and ocular symptoms were assessed using CTCAE scale. <sup>b</sup>N=95 in the safety analysis in the 2.5 mg/kg cohort.

AE, adverse event; BCVA, best corrected visual acuity; Q3W, every three weeks; QoL, quality of life.

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### Resolution of ocular events

Event <sup>a</sup>	Belantamab mafodotin 2.5 mg/kg Q3W (N=95) <sup>b</sup>		
Blurred vision Incidence, n (%) Patients with resolved blurred vision, n (% patients with event) Time to resolution, days (median, range) Not resolved, discontinued, end of follow-up, n (%)	24 (25) 19 (79) 43.0 (6-895) 5 (21)		
BCVA reduced to 20/50 or worse Incidence Time to resolution, days (median, range)* Not resolved, discontinued, end of follow-up, n (%)	46 (48) 23.0 (5-103) 6 (13)		
Keratopathy Incidence Time to resolution, days (median, range) <sup>+</sup> Not resolved, discontinued, end of follow-up, n(%)	67 (71) 120.0 (8-858) 18 (27)		

\*Resolution defined as having a post-baseline score  $\geq$ 20/50 or no equivalent value in either eye. <sup>†</sup>Duration defined as the time from onset of any keratopathy event to first time subject is free from event. A gap of at least 1 day was required between resolution of 1<sup>st</sup> and occurrence of 2<sup>nd</sup>. This chart has been independently created by GSK from original data first presented in Nooka A et al in ASH. December 2022. Poster presentation 3246



Median time to resolution of the first event of blurred vision, reduced BCVA, and keratopathy was 43, 23, and 120 days, respectively, in the 2.5 mg/kg cohort

<sup>a</sup>Ocular events (as reported here) and ocular symptoms were assessed using CTCAE scale. <sup>b</sup>N=95 in the safety analysis in the 2.5 mg/kg cohort.

AE, adverse event; BCVA, best corrected visual acuity; Q3W, every three weeks; QoL, quality of life.



Data suggests that patients' quality of life was maintained or improved with long-term belantamab mafodotin treatment



Data indicates that overall global health status/QoL, physical and role functioning, and overall disease symptoms were maintained or improved during belantamab mafodotin treatment

#### LE NUOVE FRONTIERE DELL'IMMUNOTERAPIA PER LA CURA DEL MIELOMA MULTIPLO

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There was no sBCMA threshold identified to delineate responders vs non-responders, suggesting that baseline sBCMA did not dictate a response

A substantial overlap in baseline sBCMA levels was observed between responders (≥PR) and non-responders



\*Box and whisker plot: box denotes median and IQR; whiskers indicate the range (excluding outliers). Post hoc analysis.

NE

PD

CR, complete response; MR, minimal response; NE, not estimable; PD, progressive disease; PR, partial response; sBCMA, soluble B-cell maturation antigen; sCR, stringent complete response; SD, stable disease; VGPR, very good partial response.

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sBCMA levels decreased with time on belantamab mafodotin treatment, but complete loss was not observed

### sBCMA levels over time

sBCMA levels, adjusted for disease burden, appear to decrease with time on treatment at all response levels

Following correction for survivorship effect, reduction in sBCMA over time remained, but there was not complete loss

#### Longitudinal sBCMA prediction at different responses



This figure was first presented in Lowther DE et al at ASH. December 2022. Oral presentation 248.

# In addition to being measurable at progression, sBCMA levels returned to near baseline



This figure was first presented in Lowther DE et al at ASH. December 2022. Oral presentation 248.

### sBCMA levels showed a pronounced drop during response but returned to near baseline upon progression

LE NUOVE FRONTIERE DELL'IMMUNOTERAPIA PER LA CURA DEL **MIELOMA MULTIPLO** *dalla teoria alla pratica* Lowther DE, et al. ASH Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract O248. **TORINO** 3-4 MARZO 2023

## The Patient Experience With Belantamab Mafodotin: Perspectives of Patients Receiving Treatment in Clinical Trials and in the Real-World



# Outcomes of patients evaluated in the real-world observational BeAMM study are consistent with the DREAMM-2 study

Retrospective, longitudinal, observational study using de-identified data from the US EHR–derived Flatiron Health Database from 01/01/2011 to 12/31/2021

Patient and disease characteristics between MM diagnosis and belantamab mafodotin initiation (n=137)				
Age, years, mean (± SD)	67.9 (± 10.0)			
Female, n (%)	69 (50.4)			
<b>Race, n (%)</b> White Black or African American	87 (63.5) 17 (12.4)			
<b>Cytogenetic risk, n (%)</b> High	62 (45.3)			
Prior LOTs, n (%) 3 4 5 6 7 >8	11 (8.0) 28 (20.4) 34 (24.8) 17 (12.4) 15 (10.9) 22 (16.1)			
Triple-refractory, n (%)	105 (76.6)			

Safety	Post-index period <sup>c</sup> (N=137)	Post-index period of ≥4 mos (N=57)	E
Patients with ≥1 ocular AESI, n (%)	71 (51.8)	41 (71.9)	0
Time to first ocular AESI, days, mean (± SD)	39.1 (± 33.6)	44.7 (± 40.2)	N
Number of ocular AESIs, mean (± SD)	1.8 (± 0.8)	1.4 (± 1.2)	0
1 ocular AESI, n (%)	30 (21.9)	13 (22.8)	
2 ocular AESIs, n (%)	32 (23.4)	21 (36.8)	1
<b>Type of ocular AESI in &gt;30% of patients, n (%)</b> Keratopathy Blurred vision	56 (40.9) 44 (32.1)	30 (52.6) 30 (52.6)	
Severity of first keratopathy event (among patients with keratopathy severity information), n (%) <sup>d</sup>	(N=44)	(N=25)	
Mild	27 (61.4)	12 (48.0)	
Moderate/severe <sup>e</sup>	17 (38.6)	13 (52.0)	
Persistence of belantamab mafodotin treatment, %			
3 months	48.1	-	
6 months	31.3	-	N
			Thes

Effectiveness	Post-index period <sup>c</sup> (N=137)
ORR 6 months post index date, %	30.2
Median PFS, months	5.4
OS 6 months post index date, %	57.3

#### Patients continuing on belantamab mafodotin



esented in Hultcrantz M. ASH. December 2022.



Overall, patients with RRMM treated with belantamab mafodotin in the real-world setting experienced similar outcomes to patients in the DREAMM-2 study, including therapy holds to address ocular AESIs



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dalla teoria alla pratica Hultcrantz M, et al. ASH nnual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract P4549.

**TORINO 3-4** MARZO **2023** 

# Efficacy and safety of belantamab mafodotin in the real-life setting as reported in the ALFA study were consistent with the DREAMM-2 study



- Noninterventional, retrospective study of 184 patients initiating belantamab mafodotin in 46 centres in France during early access programs from April 27, 2020 to June 30, 2021
- Aim of the study was to describe the effectiveness and safety of belantamab mafodotin in patients with RRMM in a real-life setting
- In the overall population (N=184), 58% of patients received ≥5 prior LOT, 48% had renal failure, and 79% were penta-exposed
- 33% (27 of 87) had high risk<sup>a</sup> cytogenetics
- 48% had baseline ocular conditions (53% cataract)

- AEs were reported in 86.4% of patients with ocular AEs being the most common (reported in 56% of patients)
- Permanent discontinuation due to ocular AEs occurred in 12.5% of patients

### PFS according to best response to belantamab mafodotin



- The median PFS (mPFS) for the whole population was 2.4 months (95% Confidence Interval 1.9– 3.2)
- According to the best response, mPFS was 20.6 months (95% CI 12.1–not reached) in patients with ≥VGPR, 7.1 months (95% CI 4.6– 9.4) in patients with PR, and 1.6 months (95% CI 1.4– 2.0) in the other patients; P<0.01</li>
- No differences were found in subgroups of interest

### OS according to best response to belantamab mafodotin



- The median OS (mOS) was 8.8 months (95% CI 6.3–11.6)
- mOS was not reached in patients with ≥VGPR
- mOS was 17.5 months (95% CI 7.7– not reached) in patients with PR and 5.6 months (95% CI 3.9–7.7) in the other patients; including mOS at 14.1 months in MR, 9.5 months in stable disease, and 3.3 months in progressive disease
- No differences were found in subgroup of interest

These figures were first presented in Roussel M. ASH. December 2022. Poster presentation 1856.



With a median follow-up of 7.8 mo, belantamab mafodotin showed similar efficacy to that reported in the DREAMM-2 trial, and no new safety concerns were identified in the overall population



LE NUOVE FRONTIERE DELL'IMMUNOTERAPIA PER LA CURA DEL **MIELOMA MULTIPLO** dalla teoria alla pratica Roussel M, et alASH Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract P1856

**TORINO 3-4** MARZO **2023** 

# Safety and activity of belantamab mafodotin in this Spanish real-world study were consistent with that reported in DREAMM-2



- At study entry, 88% of patients were triple-class refractory
- 65% had received ASCT
- The median number of prior therapy was 5

- **Observational, retrospective, multicentre study** (N=156)
- Patients must have received ≥1 dose of belantamab mafodotin within compassionate use or EA programs in Spain between Nov 2019–Jun 2021
  - Primary endpoint: ORR
  - Secondary endpoints: OS, DOR, PFS, and select TEAEs<sup>a</sup>
  - The ORR was 46.4% (10% CR; 5% sCR)
    Median PFS and Operating 2.6 and 14
  - OS were 3.6, and 11 months, respectively
- 10/127 evaluable patients (8%) discontinued belantamab mafodotin due to AEs (2 due to keratopathy, 2 thrombocytopenia)

### **Treatment-emergent adverse events**

	All Grades, n (%)	≥ Grade 3, n (%)
<b>Hematologic</b> Thrombocytopenia Neutropenia Anemia	24 (15.4) 7 (3.8) 6 (3.9)	17 (10.9) 5 (3.1) 2 (1.3)
Nonhematologic Infections Increase in transaminase	25 (15) 6	10 (5.6) 2
Ocular TEAE*	N=83 (53.2%)	
Keratopathy Reduced visual acuity Blurry vision Dry eye Foreign body sensation Ocular discomfort Photophobia	73 (46.8) 50 (32.1) 30 (19.2) 27 (17.3) 16 (10.3) 15 (9.6) 10 (6.4)	28 (17.9) 7 (4.5)

TEAE, treatment-emergent adverse event. \*Data available from 154 patients. This table was first presented in De La Rubia J. ASH. December 2022. Poster presentation 1881.



At a median follow-up of 13 months, belantamab mafodotin induced deep and durable responses with a manageable safety profile in the heavily pretreated patients evaluated in this real-world study



Efficacy and safety for belantamab mafodotin in the real-world data from MSKCC were consistent with those reported in the DREAMM-2 trial





- 90 heavily pretreated patients with RRMM treated with at least one dose of commercial belantamab mafodotin at MSKCC between October 1, 2020, and October 31, 2022, were included in the study
- **Aim:** To assess response rates, dose modifications, and frequency of ocular AEs in patients treated with belantamab mafodotin in a real-world setting and in relation to prior treatment with **BCMA-targeted therapies**



Responses and AEs with belantamab mafodotin in the real-world setting were consistent with those reported in clinical trials

61% of patients had high-risk cytogenetics Patients received 6 prior LoT<sup>a</sup>

19% of patients received ≥1 BCMA-targeted agent [bispecific antibody (n=6), CAR T-cell therapy (n=12), and prior belantamab mafodotin (n=2)]

ORR was 42% (VGPR: 16% and CR: 14%) with a median DoR of 13.1 months

21% of patients had SD and 36% had PD

Median PFS was 4 months

Median OS was 20.5 months

**Response was** similar in BCMAexposed and BCMAnaïve patients

**Ocular AEs** comparable to previous studies, with 64% having an ocular AE

63% of patients had any Grade keratopathy<sup>b</sup> (Grade 3-4 in 16% of patients)

> 46% of patients had any Grade reduced BCVA (Grade 3-4 in 4% of patients)

26 patients had dose reductions<sup>c</sup>

31 patients had dose delays<sup>d</sup>

Most patients who had dose modifications due to ocular events continued therapy on a lower dose with maintained response

9 patients discontinued treatment due to ocular AE



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# Algonquin Study: Belantamab Mafodotin in Combination with Pomalidomide and Dexamethasone for RRMM

Materiale Scientifico di GSK. Il presente materiale non ha finalità pubblicitaria, non viene trasmesso e/o divulgato dalla Rete di Informazione Scientifica di GSK e, dunque, non è soggetto alle disposizioni del Titolo VIII (Pubblicità) del D.Lgs. 219/06. Il presente materiale viene presentato esclusivamente per rispondere a quesiti non sollecitati di informazioni su medicinali GSK in commercio e/o in sviluppo clinico.

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13 dicembre 2022

Preclinical studies have demonstrated that belantamab mafodotin may work synergistically in combination therapy with immunomodulatory agents

Preclinical studies of belantamab mafodotin + immunomodulatory agents or bortezomib

- In vitro, combination with a standard-of-care agent (bor, dex, len, or pom) led to synergistic activity in both OPM-2 and MOLP-8 cells
- In vivo, combination with len, pom, or bor enhanced anti-tumor activity and provided additional survival benefit compared to each single agent in immune-compromised mice bearing OPM-2 and MOLP-8 xenografts

#### Combination of belantamab mafodotin + pom and/or dex in vivo OPM-2 xenograft model



This synergy observed in *in vivo* xenograft models and *in vitro* cell cultures supports the combination of belantamab mafodotin + immunomodulatory agents



dalla teoria alla pratica Trudel S, et al. Presented at the 64th ASG Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract P3248.

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The Algonquin study is a two-part phase 1/2 trial evaluating the safety and efficacy of different doses and schedules of belantamab mafodotin + pom/dex in patients with RRMM



This figure was independently created by GSK from original data first presented in Trudel S et al. ASH. 2022.

### Part 1 of the Algonquin study established an RP2D of 2.5mg/kg Q8W



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The Algonquin study enrolled patients with RRMM, including those with tripleclass exposed/refractory (TCE/R\*) MM

	<ul> <li>Confirmed diagnosis of multiple myeloma and relapsed and/or refractory disease</li> <li>Undergone stem cell transplant, or have been considered transplant ineligible</li> <li>ECOG performance status 0–2</li> </ul>
<b>KEY</b> ELIGIBILITY CRITERIA Adult patients ≥18 years	<ul> <li>≥1 prior line of treatment that must have included len and a proteasome inhibitor</li> <li>Refractory to len and exposed or refractory to a proteasome inhibitor</li> </ul>

### Patients were required to have measurable disease, defined as having at least one of the following:

Serum M-protein concentrations	Urine M-protein concentrations	Serum FLC assay
5 g/L or higher	200 mg per 24 hours or higher	FLC level 100 mg/L or higher and abnormal serum FLC ratio (<0.26 or >1.65)

## This analysis consists of updated safety and efficacy data for the subgroup of TCE/R MM patients treated at doses of 1.92 or 2.5 mg/kg belantamab mafodotin + pom/dex



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### 61 TCE patients were enrolled in dose cohorts received either 1.92 or 2.5 mg/kg belantamab mafodotin + pom/dex\*

n (%)
33 (54.1%)
28 (45.9%)
20 (32.7%)
2 (3.3%)
4 (6.6%)
2 (3.3%)

Patient Disposition		Characteristics (N=61)			
N-01)	11 (70)	Age, median (range), years	67 (36–85)		
Ongoing	33 (54.1%)	Previous LOT, median (range)	3 (2–5)		
Discontinued	28 (45.9%)	Stem cell transplant (%)	37 (60 7%)		
Progressive disease	20 (32.7%)				
Adverse event (AE) $2(3.3\%)$		Ien exposed/refractory (%)	61 (100%) / 60 (98.4%)		
Adverse event (AL)         2 (3.3%)           Death <sup>†</sup> 4 (6.6%)           Patient withdrawal         2 (3.3%)		PI exposed/refractory (%)	61 (100%) / 61 (100%)		
		dara exposed/refractory (%)	61 (100%) / 60 (98.4%)		
		len and PL exposed/refractory (%)	61 (100%) / 60 (98.4%)		
		len, PI, and dara exposed/refractory (%)	61 (100%) / 60 (98.4%)		
Median age was 67 years and median prior LOT was 3 (2-5)		ISS Stage I/II/III/Unknown (%) 23.0% / 39.3% / 23.0% / 14.8%			
		High-risk cytogenetics [del17p13, t(4;14), t(14;16)] (%)	14/34 (41.2%)		

These tables were independently created by GSK from original data first presented in Trudel S et al. ASH. 2022.

Consistent with inclusion criteria, 100% of patients were len refractory and PI exposed, 100% were TCE, and 98% were dara, len, and PI refractory (TCR)



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# The combination of belantamab mafodotin + pom/dex resulted in deep and durable responses in high unmet need TCE patients

- 55 patients were evaluable for response with median follow-up of 10.2 (0–30.5) months
- Across all dosing cohorts, the ORR(≥PR)/VGPR rates were 85%/56% for TCE patients
- The ORR/VGPR for patients treated at the RP2D (2.5 mg/kg Q8W) (n=33) was 82%/55%
- The PFS and OS for patients treated at the RP2D was 21.2 months and NYR, respectively
- Median follow-up was 10.2 months (0-30.5)

Efficacy Outcomes	Belantamab mafodotin 1.92 mg/kg Q4W N=6	Belantamab mafodotin 2.5 mg/kg Q4W N=6	Belantamab mafodotin 2.5 mg/kg Q8W N=38	Belantamab mafodotin 2.5 mg/kg Q12W N=11
ORR	4/6 (66.7%)	6/6 (100%)	27/33 (82%)	10/10 (100%)
sCR/CR	1/6 (16.7%)	1/6 (16.7%)	4/33 (12.1%)	3/10 (30%)
VGPR	2/6 (33.3%)	3/6 (50%)	14/33 (42.4%)	3/10 (30%)
PR	1/6 (16.7%)	2/6 (33.3%)	9/33 (27.3%)	4/10 (40%)
mPFS (95% CI), months	16.8 (10.2–NYR)	24.4 (11.9–NYR)	21.2 (13.67–NYR)	22.5 (10.2–NYR)
mOS (95% CI), months	21.4 (15.7–NYR)	NYR (24.4–NYR)	NYR (NYR–NYR)	22.5 (NYR–NYR)
Median follow-up, months	16.8 (9.2–21.4)	18.6 (6.6–30.5)	6.2 (0–21.2)	11.3 (0.9–22.5)

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# PFS for TCE patients compares favorably when compared to historical data from the LocoMMotion study and to anti-CD38 antibody/pom/dex regimens



LocoMMotion is a prospective study of real-life SOC in TCE RRMM<sup>2</sup>

- Patients (N=248) were treated with median 4.0 (range, 1–20) cycles of SOC therapy
- Primary endpoint was ORR
- Secondary clinical assessments included ScR, CR, VGPR, DOR, PFS and OS

A PFS of 4.6 months was reported in the LocoMMotion study<sup>2\*</sup>

#### LE NUOVE FRONTIERE DELL'IMMUNOTERAPIA PER LA CURA DEL MIELOMA MULTIPLO

dalla teoria alla pratica Trudel S, et al. Presented at the 64th ASG Annual Meeting & Exposition. December 10-13, 2022. New Orleans, LA. Abstract P3248.



# OS for TCE patients from all cohorts compares favorably to historical data from the LocoMMotion study\*



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## Safety profile is consistent with that of the individual agents

Most common TEAEs >25% and dose modifications by cohort ٠

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	Cohort	All cohorts N=61		ohort All cohorts N=6		Belantamab mafodotir 2.5 mg/kg Q8W N=38	
	TEAE	All Grades	Grade 3/4	All Grades	Grade 3/4		
of	Any TEAE, n (%)	60 (98.4%)	55 (90.2%)	37 (97.4%)	34 (89.5%)		
	Keratopathy	45 (73.8%)	33 (54.1%)	27 (71.1%)	19 (50.0%)		
	Decreased visual acuity	33 (54.1%)	19 (31.1%)	20 (52.6%)	12 (31.6%)		
	Fatigue	32 (52.5%)	5 (8.2%)	20 (52.6%)	2 (5.3%)		
	Thrombocytopenia	25 (41.0%)	17 (27.9%)	14 (36.8%)	10 (26.3%)		
	Neutropenia	25 (41.0%)	20 (32.8%)	13 (34.2%)	10 (26.3%)		
	Diarrhea	17 (27.9%)	3 (4.9%)	9 (23.7%)	2 (5.3%)		
	Peripheral edema	16 (26.2%)	0 (0%)	10 (26.3%)	0 (0%)		

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- SAEs were observed in 45.9% (28/61) o patients
- 4 fatal events occurred:
  - 2 upper respiratory tract infections (1 COVID-19)

• 1 MDS

1 not specified

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## Safety profile is consistent with that of the individual agents

## Incidence of SAEs and AEs leading to dose modifications (belantamab mafodotin)

Cohort	All cohorts N=61	Belantamab mafodotin 2.5 mg/kg Q8W N=38	
Any SAE	28 (45.9%)	8 (66.7%)	
Fatal SAE	4 (6.6%)	1 (2.6%)	
Led to dose hold	32 (52%)	18 (47.4%)	
Led to discontinuation	2 (2.9%)	0 (0%)	
Median dose holds	4 (0–31)	3 (0–12)	

3 patients (4.9%) discontinued due to AEs: one Grade 3 increase in liver function tests and one MDS

### Incidence of AEs > Grade 3 of special interest by cohort

AE	Belantamab mafodotin 1.92 mg/kg Q4W N=6	Belantamab mafodotin 2.5 mg/kg Q4W N=6	Belantamab mafodotin 2.5 mg/kg Q8W N=38	Belantamab mafodotin 2.5 mg/kg Q12W N=11
Keratopathy	2 (33.3%)	5 (83.3%)	19 (50.0%)	7 (63.6%)
Decreased visual acuity	1 (16.7%)	3 (50.0%)	12 (31.6%)	3 (27.3%)
Neutropenia	3 (50.0%)	2 (33.3%)	10 (26.3%)	5 (45.5%)
Thrombocytopenia	3 (50%)	1 (16.7%)	10 (26%)	3 (27.3%)

These tables were independently created by GSK from original data presented in Trudel S et al. ASH. 2022.



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The belantamab mafodotin + pom/dex regimen represents a substantial improvement over SOC treatments for patients with TCE/TCR MM

### Summary<sup>1</sup>

- PFS of 19.7 months (all cohorts) and 21.2 months (at the RP2D) for TCE patients compares favorably to historical data from the LocoMMotion study where a PFS of 4.6 months<sup>2</sup> was reported
  - → The combination of belantamab mafodotin + pom/dex represents an improvement over widely available SOC treatments for this poor prognosis patient population
  - → This combination of belantamab mafodotin + pom/dex also compares favorably with that of anti-CD38 antibody/pom/dex regimens (ORR: 60% 69%; mPFS: 11.5 12.4 months) in anti-CD38 naïve patients at first or later relapse<sup>3</sup>

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- With longer follow-up **no new** AEs have emerged
- The most common AEs are keratopathy, decreased visual acuity, fatigue, thrombocytopenia and neutropenia
  - $\rightarrow$  The safety profile is **consistent** with that of the individual agents
- Enrollment continues at the RP2D and schedule of belantamab mafodotin 2.5 mg/kg Q8W



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### Conclusion

In the DREAMM-2 trial, single-agent belantamab mafodotin (Q2.5 mg/kg 3W) demonstrated rapid, deep, and durable (>12-month DOR, >15-month OS) activity in all-comer patients at third relapse with triple-class exposed/refractory MM

- The median DOR and the median OS were longer than those reported at the 13-month update
- The 3.4 mg/kg dose is not being pursued

AEs were as expected (no new safety signals) and managed with dose modifications

Data suggests that quality of life of patients in DREAMM-2 was maintained or improved

Efficacy of belantamab mafodotin in patients with high-risk cytogenetic abnormalities and in patients with renal impairment was comparable with the overall population

Patients with EMD had poorer outcomes and additional research is needed to understand responses by EMD subtype

Responses and AEs with belantamab mafodotin in the real-world setting were consistent with those reported in clinical trials

No evidence that BCMA expression, as measured by sBCMA level, is completely lost following treatment with belantamab mafodotin

These data suggest that belantamab mafodotin can be followed by other BCMA-targeted therapies



### **Clinical Trial Program**

Alternate Dosing Schedules and Regimens in the Clinical Trial Program

### Fourth-line combination studies

### DREAMM-4<sup>1</sup>

Combination with pembrolizumab (single arm) in patients with RRMM (6 patients receiving belantamab mafodotin 2.5mg/kg evaluated)

- ORR: 67%
- AEs\*: keratopathy<sup>†</sup> (83%) and anemia (67%)

### DREAMM-5<sup>2</sup>

Monotherapy and combination with GSK3174998, feladilimab, nirogacestat, dostarlimab, and isatuxamib in patients with RRMM (N=464<sup>‡</sup>) **Study in progress** 

> Company sponsored Investigator sponsored

### Second-line combination studies

### **DREAMM-6**<sup>3</sup>

Combination with Rd or Vd in patients with RRMM who received ≥1 prior therapy (18 patients receiving belantamab mafodotin + Vd evaluated)

- ORR: 78%
- ≥VGPR: 67%
- AEs\*: keratopathy<sup>†</sup> (100%) and thrombocytopenia (78%)

### **DREAMM-7**<sup>4</sup>

Arm

Combination with Vd versus DaraVd in patients with RRMM who failed 1 prior therapy (N=478<sup>‡</sup>) **Study in progress** 

### DREAMM-8<sup>5</sup>

Combination with Pd versus PVd in patients with RRMM who failed 1 prior therapy (N=450<sup>‡</sup>) Study in progress

### Second-line combination studies (cont'd)

### **ALGONQUIN<sup>6</sup>**

Combination with Pd in patients with RRMM who received ≥1 prior therapy (n=56 patients receiving belantamab mafodotin in different dosing cohorts)

- All cohorts demonstrated deep and durable responses with combination therapy of belantamab mafodotin and Pd
- The 2.5 mg/kg dose showed a longer PFS

### **First-line combination**

### DREAMM-9<sup>7</sup>

Combination with VRd in different dose schedules in patients with NDMM who are transplant ineligible (N=144<sup>‡</sup>)

- Initial analysis in 36 patients in 5 cohorts with no new safety concerns
- At least half of patients in each cohort achieving a VGPR

\*Most commonly reported AEs.<sup>1,3,6</sup>†Keratopathy: superficial punctuate keratopathy with or without microcyst-like epithelial changes (MECs). <sup>‡</sup>Estimated enrollment.<sup>2,4,5,7</sup>

AE, adverse event; DaraVd, daratumumab/bortezomib/dexamethasone; NDMM, newly diagnosed multiple myeloma; ORR, overall response rate; Pd, pomalidomide/dexamethasone; PVd, pomalidomide/bortezomib/dexamethasone; Rd, lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; VRM, relapsed/refractory multiple myeloma; SOC, standard of care; Vd, bortezomib/dexamethasone; VGPR, very good partial response; VRd, bortezomib/lenalidomide/dexamethasone.

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