## Report BLENREP® - Belantamab mafodotin

Product &	Authorized indications	Essential therapeutic features			NHS impact
Mechanism of action	Licensing status	·			
Substance: Belantamab mafodotin	Authorized Indication:	Summary of clinica	I EFFICACY:		Cost of therapy:
	EMA: Belantamab mafodotin is indicated	Trial	DREAMM-7 (NCT04246047)	DREAMM-8 (NCT04484623)	In Italy, 100 mg of Blenrep®
Brand Name: Blenrep	in adults for the treatment of R/R MM:	Study design	Ongoing phase 3, open-label, global, randomized trial	Ongoing, open-label, global, phase 3, randomized trial	concentrate for infusion cost €
Originator/licenses	in combination with bortezomib and		Pts. ≥18 years of age with MM who had received ≥1 line	Pts. ≥18 years of age with relapsed or refractory myeloma	5.924,13 (ex-factory price).
Originator/licensee:	dexamethasone in pts. who have received at least one prior therapy;		of therapy and had had disease progression during or after the most recent therapy were enrolled. Pts. had to	who had been treated with at least one line of therapy including a lenalidomide-containing regimen and who had	
al if ii Nos	and	Inclusion	have an ECOG PS of 0-2 and ≥1 aspect of measurable	progressive disease during or after the most recent	Epidemiology:
Classification: NCE	in combination with pomalidomide	criteria	disease.	therapy.	Multiple myeloma is the second
ATC code: L01FX15	and dexamethasone in pts. who have		Pts. who were refractory to anti-CD38 therapy or who	Pts. had to have an ECOG PS of 0-2 and ≥1 aspect of	most frequent hematologic
	received at least one prior therapy		had been exposed to anti-BCMA therapy were excluded.	measurable disease.	malignancy. In Italy, the annual
Orphan Status:	including lenalidomide [1].		Pts. were randomly assigned in a 1:1 ratio to receive	Pts. were randomly assigned in a 1:1 ratio to receive	incidence is 11.1/100,000
Eu: Yes			either BVd (n=243) or DVd (n=251). Both treatment	either BPd (n=155) or PVd (n=147). Pts. in the BPd group	inhabitants [4]. In 2020, 5,700 new cases were diagnosed [5].
Us: /	FDA: The US FDA assigns Prescription		groups received bortezomib (SC 1.3 mg/m² on days 1, 4, 8 and 11 of 21-day cycles) and dexamethasone (OS or IV 20	received belantamab mafodotin (2.5 mg/Kg IV on day 1 of cycle 1 and 1.9 mg/Kg on day 1 of cycle 2 onward) with	new cases were diagnosed [5].
Mechanism of action: Belantamab	Drug User Fee Act action date of 23/07/2025 for belantamab mafodotin		mg on the day of and the day after bortezomib	pomalidomide and dexamethasone in 28-day cycles,	
mafodotin, an antibody drug conjugate,	for MM (Combination therapy, Second-	Randomization	administration) for the first eight cycles. The BVd group	while those in the PVd group received bortezomib (SC 1.3	
consists of a humanised IgG1κ	line therapy or greater) [2].	and	was treated with IV belantamab mafodotin 2.5 mg/Kg	mg/m <sup>2</sup> on days 1, 4, 8 and 11 of 21-day cycles) with the	POSSIBLE PLACE IN THERAPY:
monoclonal antibody targeting the	., , ,	treatments	every three weeks, and the DVd group received IV	same combination in 21-day cycles. Treatment continued	For pts with R/R MM the choice
BCMA, conjugated with a cytotoxic	Route of administration: IV		daratumumab 16mg/Kg with decreasing frequency until	until disease progression or other discontinuation criteria.	of appropriate therapy depends
agent, maleimidocaproyl			disease progression.  Pts. were stratified according to R-ISS stage at screening,	Pts. were stratified according to the number of previous lines of therapy, previous exposure to bortezomib, and	on the context of clinical relapse.
monomethylauristatin F. Belantamab mafodotin binds to BCMA	Licensing status		previous exposure to bortezomib, and the number of	whether anti-CD38 antibodies had been received	PI (bortezomib, carfilzomib), IMiD
on the surface of myeloma cells causing	EU CHMP P.O. date: 22/05/2025		previous lines of therapy.	previously.	(pomalidomide) and monoclonal
cell cycle arrest and inducing antibody-	FDA M.A. date: /	Endpoints	The primary end point wa	s PFS in the ITT population.	antibodies (daratumumab, elotuzumab) are now considered
dependent cellular cytotoxicity [1].			At a median follow-up of 28.2 months (range, 0.1 to	At a median follow-up of 21.8 months (range, <0.1 to	first-line treatments [6].
	EU Speed Approval Pathway: No		40.0), median PFS was 36.6 months (95% CI, 28.4 to NR)	39.2), the 12-month estimated PFS with BPd was 71%	Bortezomib in combination with
	FDA Speed Approval Pathway: /	Results	in the BVd group and 13.4 months (95% CI, 11.1 to 17.5)	(95% CI, 63 to 78), as compared with 51% (95% CI, 42 to	dexamethasone, bortezomib with
			in the DVd group (HR for disease progression or death, 0.41; 95% CI, 0.31 to 0.53; P<0.001) [2].	60) with PVd (HR for disease progression or death, 0.52; 95% CI, 0.37 to 0.73; P<0.001) [3].	dexamethasone and liposomal
	ABBREVIATIONS:		0.41, 3370 cl, 0.31 to 0.33, 1 < 0.001, [2].	55% CI, 0.57 to 0.75, 1 <0.001/[5].	doxorubicin, and lenalidomide
	AE: Adverse Event	Summary of clinical SAFETY:  DREAMM-7 (NCT04246047): The safety population included all pts., who had received ≥1 dose of any trial drug. All the pts. had ≥1 AE. Grade  2.2.45   Summary of clinical SAFETY:  DREAMM-7 (NCT04246047): The safety population included all pts., who had received ≥1 dose of any trial drug. All the pts. had ≥1 AE. Grade			with dexamethasone are salvage therapy regimens that have been used for several years in relapsed
	BCMA: B-cell maturation antigen BVd: Belantamab mafodotin, bortezomib, and				
	dexamethasone		23 AEs occurred in 95% of the pts. in the BVd group and 78% of those in the DVd group, and SAEs occurred in 50% and 37%, respectively. The		
	BPd: Belantamab mafodotin, pomalidomide, and dexamethasone	bleeding (7% vs. 6%), anemia (19% vs. 26%) and grade ≥3 pneumonia (12% vs. 4%).  3 Products for SAEs-related death occurred in 10% (n=23) of pts. in the BVd group and 8% (n=19) in the DVd group; the SAEs that led to death were			
	CHMP: Committee for Medicinal Products for				The addition of Belantamab
	Human Use				mafodotin to these regimens
	CI: Confidential Interval	Daratumumab, bortezomib, and ethasone Eastern Cooperative Oncology Group card Ratio mmunomodulatory drug avenously Jarketing Authorization lulliple myeloma t reached  DREAMM-8 (NCT04484623): The safety population included all pts. who had received ≥1 dose of any trial drug. AEs of any grade were reported in 99% of the pts., who received BPd and 96% of those, who received PVd. Grade ≥3 AEs occurred in 94% of the pts. in the BPd group and 76% of those in the PVd group, and the percentage of pts. with SAEs was 63% and 45%, respectively.  The most frequently reported AEs in the BPd group were blurred vision (79% of the pts. in BPd group vs 15% of pts. in PVd group), dry eye (61% vs 10%), and foreign-body sensation in the eyes (61% vs 6%). A total of 33 pts. died during the study: 16 in the BPd group and 14 in the PVd group. These deaths were attributed to SAEs.  Ongoing studies:			
	dexamethasone				
	ECOG: Eastern Cooperative Oncology Group				
	HR: Hazard Ratio IMiD: Immunomodulatory drug				
	IV: Intravenously				
	M.A.: Marketing Authorization				
	NR: Not reached				
	OS: Oral administration				LINE(S) OF TREATMENT: -
	PFS: Progression-Free Survival PI: Proteasome inhibitor	ogressionree survival teasome inhibitor ositive Opinion formance Status tients Pomalidomide, bortezomib, and ethasone  • For other indications: No  Discontinued studies (for the same indication): Yes References:  [1] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [2] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [2] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [3] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [3] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [4] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [5] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [6] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [7] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [7] https://www.ema.europa.eu/en/medicines/human/EPAR/blenrep-0 [8] https://www.ema.europa.eu/en/m			OTHER DRUGS IN DEVELOPMENT
	P.O.: Positive Opinion				for the SAME INDICATION:
	PS: Performance Status				Tanespimycin (NCT00514371);
	Pts: Patients PVd: Pomalidomide, bortezomib, and				Aplidin (NCT01102426);
	dexamethasone				Venetoclax (NCT02755597)
	R/R: Relapsed or refractory	[3] https://www.nejm			
	R-ISS: Revised International Staging System SAE: Serious adverse events	[4] https://www.iss.it/documents/20126/8404001/LG92 SIE MM v3.5.pdf/e60ca973-8456-16c0-0dda-5f7103b8d11e?t=1678805774591			*Service reorganization: No
	SC: Subcutaneously				*Possible off label use: Yes
	TRAE: Treatment related AEs	tment related AEs [7] http://media.aiom.it/userfiles/files/doc/LG/2017 LGAIOM Mieloma.pdf			
	WHO: World Health Organization				1