## **Report DARZALEX® Daratumumab**

Product&	Authorized indications	Essential therapeutic features	NHS impact
Mechanism of	Licensing status		
action			
Substance:daratum	Authorized Indication:	Summary of clinical EFFICACY:	Cost of Therapy:
umab	EMA: in combination with pomalidomide and	APOLLO (NCT03180736): is amulticenter, phase III, randomized, open-label study comparing DaraPomDex with	The price (USA) for daratumumab 1,800 mg, 15 ml,
	dexamethasone for the treatment of adult pts	PomDex in adult pts with relapsed or refractory MM who have received at least one prior treatment regimen with	is \$8,296.30 [6].
Brand	with MM [2]:	both lenalidomide and a PI and have demonstratedDP. Subjects (n = 304) were randomized in a 1:1 ratio to	The price for one cycle of therapy (administered
Name:DARZALEX®	who have received one prior therapy	receive either DaraPomDex or PomDex until DPor unacceptable toxicity.	QW for 28 days) is: \$ 33,185.20
	containing a PI and lenalidomide and were	Experimental arm: (n=151)	, , , ,
Originator/licensee:	lenalidomide-refractory;	• Daratumumab: 16 mg/kg as an IV infusion or 1,800 mg SC QW for eight weeks, then Q2W for an additional 16	Epidemiology:
Janssen-Cilag	who have received at least two prior	weeks, then Q4W thereafter.	MM is a plasma cell neoplasm that accounts for
International NV	therapies that included lenalidomide and a PI	Pomalidomide: 4 mgorallyon days 1 through 21 of each 28-day cycle.	1%-1.8% of all cancers and is the second most
	and have demonstrated PD on or after the	• Dexamethasone: 40 mg (20 mg for pts ≥75 years of age) orally, once daily, on day 1, 8, 15, 22 of each 28-day	common haematological malignancy with an
Classification: NI	last therapy.	treatment cycle.	estimated incidence in Europe of 4.5-
		Active comparator arm: (n=153)	6.0/100,000/year. Despite the significant
ATC code:L01XC24	Route of administration:SC	Pomalidomide: 4 mg orally on days 1 through 21 of each 28-day cycle.	improvement in pts' survival over the past 20
		• Dexamethasone:40 mg (20 mg for pts ≥75 years of age) orally, once daily, on day 1, 8, 15, 22 of each 28-day	years, only 10-15% of pts achieve or exceed
Orphan Status:	Licensing status	treatment cycle.	expected survival compared with the matched
Eu:Yes	EU CHMP P.O. date:20/5/2021	The primary endpoint was comparison of PFS between treatment arms. PFS was assessed monthly from	general population [7].
Us:-	FDA M.A. date:-	randomization until DP or death, whichever occurred first (approximately up to three years).	
		ParaPomDex reduced the risk of DPor death by 37% (HR, 0.63; 95.5 CI, 0.47-0.85; p=0.0018). The median PFS for	POSSIBLE PLACE IN THERAPY
Mechanism of	EU Speed Approval Pathway:Yes	the DaraPomDex and PomDex arms were reported to be 12.4 and 6.9 months, respectively [3-4].	Pts who have received one prior line of therapy:
action:daratumuma	FDA Speed Approval Pathway:-		PomVd, DaraKdorlsaKd are
b is an IgG1κ human	, ,,	Summary of clinical SAFETY:	recommendedtherapies for pts who were
mAb that binds to	ABBREVIATIONS:	The most common grade 3/4 AEs with a >5% difference between ParaPomDex vs.PomDex armswere neutropenia	previously exposed orarerefractory to
the CD38 protein	AEs: Adverse Events	(68% vs. 51%), leukopenia (17% vs. 5%), lymphopenia (12% vs. 3%), febrile neutropenia (9% vs. 3%), and	lenalidomide, while DaraKd or IsaKd can alsobe
expressed at a high	AL: amyloid light-chain CD38: Cluster of Differentiation 38	pneumonia (13% vs. 7%). The most common serious TEAEs reported were pneumonia (13% and 7%) and lower	given in pts who are refractory to bortezomib.
level on the surface	CHMP: Committee for Medicinal Products for Human Use	respiratory tract infection (11% and 9%). The rate of IRRs with SC daratumumab was low (6%, all grade 1/2), and	Pts at third and subsequent lines of treatment:for
of MM tumour cells,	CI: Confidence Interval	2% of pts had local injection-site reactions (all grade 1) [4-5].	pts who have been exposed or are refractory
as well as other cell	DaraKd: Daratumumab, Carfilzomib, dexamethasone DaraPomDex: Daratumumab, Pomalidomide and low-dose		toboth bortezomib and lenalidomide, DaraKd,
types and tissues at	Dexamethasone	Ongoing studies:	IsaPd, IsaKdorEloPd are recommended [8].
various levels. CD38	DP: Disease Progression	For the same indication:Yes	
protein has multiple	EloPd:Elotuzumab, Pomalidomide, Dexamethasone HR: Hazard Ratio	For other indications: Yes	OTHER INDICATIONS IN DEVELOPMENT: Plasma
functions such as	IgG1κ: Humanized Immunoglobulin G, subclass 1, κ light chain	[Phase III, but if it is an O/OE drug, also Phase II]	Cell Myeloma, Systemic Lupus Erythematosus,
receptor mediated	IsaKd:Isatuximab, Carfilzomib, dexamethasone IsaPd:Isatuximab, Pomalidomide, Dexamethasone		Lupus Nephritis, Refractory T-Cell Lymphoma
adhesion, signalling	IRRs: Infusion-Related Reactions	Discontinued studies (for the same indication):No	Relapsed T-Cell Lymphoma [9].
and enzymatic	IV:Intravenous		
activity [1].	M.A.: Marketing Authorization mAb:monoclonal antibody	References:	SAME INDICATION IN EARLIER LINE(S) OF
	MM: Multiple Myeloma	1. <a href="https://www.ema.europa.eu/en/documents/product-information/darzalex-epar-product-information">https://www.ema.europa.eu/en/documents/product-information/darzalex-epar-product-information</a> en.pdf	TREATMENT:in combination with bortezomib,
	PFS: Progression Free Survival	<ol> <li>https://www.ema.europa.eu/en/medicines/human/summaries-opinion/darzalex-2</li> <li>https://www.clinicaltrials.gov/ct2/show/NCT03180736</li> </ol>	melphalan and prednisone or lenalidomide and
	PI: Proteasome Inhibitor P.O.: Positive Opinion	4. https://adisinsight.springer.com/trials/700284521	dexamethasone in pts with MM who are ineligible
	PomDex: Pomalidomide and low-dose Dexamethasone	5. https://ash.confex.com/ash/2020/webprogram/Paper135874.html	for autologous stem cell transplant [10].
	PomVd: Pomalidomide, Bortezomib, dexamethasone	<ol> <li>https://www.drugs.com/price-guide/darzalex-faspro</li> <li>Usmani S.Z. Hoering A. Cavo M. et al. Clinical predictors of long-term survival in newly diagnosed transplant eligible multiple myeloma – an IMWG</li> </ol>	
	pts: patients  OW: Once a Week	Research Project. Blood Cancer J. 2018; 8: 123	OTHER DRUGS IN DEVELOPMENT for the SAME
	Q2W: Every 2 Weeks	8. M.A. Dimopoulos, P. Moreau, E. Terpos et al. Multiple myeloma: EHA-ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up+,	INDICATION: Isatuximab, carfilzomib, venetoclax,
	Q4W: Every 4 Weeks	Annals of Oncology, Volume 32, Issue 3, 2021, Pages 309-32  9. https://clinicaltrials.gov/ct2/results?cond=&term=daratumumab&cntry=&state=&city=&dist=&Search=Search&recrs=a&recrs=b&recrs=d&recrs=	pomalidomide [11].
	SC: Subcutaneous TEAEs: Treatment Emergent Adverse Events	e&recrs=f&type=Intr&phase=1&phase=2	
	TEALS. Treatment Linergent Adverse Events	10. https://adisinsight.springer.com/drugs/800041859	*Service reorganization Y/N: No
		<ol> <li>https://clinicaltrials.gov/ct2/results?cond=Myeloma+Multiple&amp;term=refractory&amp;cntry=&amp;state=&amp;city=&amp;dist=&amp;Search=Search&amp;recrs=a&amp;recrs=b&amp;recrs=d&amp;recrs=e&amp;recrs=f&amp;type=Intr&amp;phase=1&amp;phase=2</li> </ol>	*Possible off label use Y/N: Yes
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