## Report POLIVY® polatuzumab vedotin

Product &	Authorized indications	Essential therapeutic features	NHS impact
Mechanism of	Licensing status		
action			
Substance:polatuzu	Authorized Indication:	Summary of clinical EFFICACY:	Cost of therapy:
mab vedotin	<b>EMA:</b> polatuzumab vedotin in	POLARIX (NCT03274492): double-blind, placebo-controlled, international phase III trial to evaluate a modified	The ex-factory cost for one 21-day cycle
	combination with R-CHP is	regimen of R-CHOP (pola-R-CHP), in which vincristine was replaced with polatuzumab vedotin, as compared with	withpolatuzumab vedotin (for a 70 kg
Brand Name:Polivy	indicated for the treatment of adult	standard R-CHOP, in adult pts (n=879) with previously untreated intermediate-risk or high-risk DLBCL. Pts were	patient)is €18,319.09[4].
	pts with previously untreated	randomly assigned in a 1:1 ratio to receive six cycles of either pola-R-CHP (n=440) or R-CHOP (n=439), plus two	
Originator/license:	DLBCL[2].	cycles of rituximab alone. On day one of each cycle, pts received either IV polatuzumab vedotin at a dose of 1.8	Epidemiology:
Roche Registration		mg per kg of body weight and a placebo matching IV vincristine (pola-R-CHP group) or a placebo matching	DLBCL is the most common subtype of
GmbH	Route of administration: IV	polatuzumab vedotin and IV vincristine at a dose of 1.4 mg per m <sup>2</sup> of body surface area (R-CHOP group), plus IV	NHL: one in three cases of NHL is
		doses of rituximab, cyclophosphamide, and doxorubicin.	represented by DLBCL. Pts usually
Classification: NI	Licensing status	The primary efficacy end point was investigator-assessed PFS.	respond to first-line treatments, however
	EU CHMP P.O. date:24/03/2022	The percentage of pts surviving without progressionwas significantly higher in the pola-R-CHP group than in the	in 40% of the cases the disease is
ATC code: L01XC37	FDA M.A. date: 18/09/2020	R-CHOP group (76.7% [95% CI, 72.7 to 80.8] vs. 70.2% [95% CI, 65.8 to 74.6] at two years; stratified HR for	recurrent [5]. The crude incidence for
		progression, relapse, or death, 0.73; 95% CI, 0.57 to 0.95; p=0.02) [3].	DLBCL in Europe is 3.8/100 000/year [6].
Orphan Status:	EU Speed Approval Pathway:No		
Eu: Yes	FDA Speed Approval Pathway:No	Summary of clinical SAFETY:	POSSIBLE PLACE IN THERAPY
Us: Yes		The most common AEs of grade 3 or 4 were neutropenia (28.3% in the pola-R-CHP group vs. 30.8% in the R-CHOP	The standard first-line treatment of
	ABBREVIATIONS: AEs: Adverse events	group), febrile neutropenia (13.8% vs. 8.0% respectively), and anemia (12.0% and 8.4%, respectively). The	DLBCL is R-CHOP (rituximab,
Mechanism of	CHMP: Committee for Medicinal Product for	percentages of pts who had infections of grade 3 or 4 were similar (15.2% vs. 12.6%). Peripheral neuropathy of	cyclophosphamide, doxorubicin,
action:polatuzumab	Human Use	any grade was reported in 52.9% of those who received pola-R-CHP and in 53.9% of those who received R-CHOP,	vincristine, prednisone). In a phase 1b-2
vedotin, is made up	CI: Confidence Interval	and peripheral neuropathy of grade 2 or higher was reported in 13.8% and 16.7% of the pts, respectively. Serious	trial in which polatuzumab vedotin in
of a monoclonal	DLBCL: diffuse large B-cell lymphoma  HR: Hazard ratio	AEs were reported in 34.0% of the pts who received pola-R-CHP and 30.6% of the pts who received R-CHOP. AEs	combination with rituximab,
antibody combined	IV: Intravenous	that resulted in death were reported in 13 pts in the pola-CHP group and in 10 pts in the R-CHOP group; these	cyclophosphamide, doxorubicin, and
with MMAE. The	MA: Marketing Authorization	events were primarily related to infections (pneumonia in four pts and three pts, respectively, and sepsis in one	prednisone was investigated as first-line
monoclonal	MMAE: monomethyl auristatin NHL: Non-Hodgkin Linfoma	pt and three pts, respectively). [3].	treatment for DLBCL, 89% of the pts had
antibody attaches	PFS: Progression-free survival		an overall survival and 77% had a
to a protein called	PO: Positive Opinion	Ongoing studies:	complete response [3].
CD79b on B cells,	Pola-R-CHP: polatuzumab, rituximab, cyclophosphamide, doxorubicin, and	For the same indication: Yes	071150 1010101010
including cancerous	prednisone	For other indications: Yes	OTHER INDICATIONS IN
B cells, and in doing	Pts: patients	Discontinued studies (for the same indication):Yes	<b>DEVELOPMENT:</b> Richter syndrome[7].
so causes MMAE to	<b>R-CHOP</b> : rituximab, cyclophosphamide, doxorubicin, vincristine and prednisone		CANAS INDICATION IN EARLIED LINE(C)
be released inside	Vs.: versus	References:	SAME INDICATION IN EARLIER LINE(S)
them. MMAE then		https://www.ema.europa.eu/en/documents/assessment-report/polivy-epar-public-assessment-report_en.pdf     https://www.ema.europa.eu/en/medicines/human/summaries-opinion/polivy-0	OF TREATMENT:- [7].
stops the B cells		3. https://www.nejm.org/doi/full/10.1056/NEJMoa2115304	OTHER DRUCK IN DEVELOPMENT for the
from dividing and		4. https://gallery.farmadati.it/Home.aspx	OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION:Zanubrutinib + R-
causes them to die		5. https://www.osservatoriomalattierare.it/i-tumori-rari/altri-tumori-rari/14242-linfoma-diffuso-a-grandi-cellule-b-benefici-duraturi-dalla-terapia-con-polat uzumab-vedotin	CHOP[7].
[1].		6. <a href="https://www.annalsofoncology.org/article/S0923-7534(19)47184-6/pdf">https://www.annalsofoncology.org/article/S0923-7534(19)47184-6/pdf</a>	*Service reorganization Y/N: Yes
		7. https://clinicaltrials.gov/ct2/home	
			*Possible off label use Y/N: Yes