Report ENTYVIO® vedolizumab

Product &	Authorized indications	Essential therapeutic features	NHS impact
Mechanism of action	Licensing status	•	·
Substance: vedolizumab	Authorized Indication:	Summary of clinical EFFICACY	Cost of therapy: the cost of one administration
	EMA: vedolizumab is	EARNEST (NCT02790138): multicentric, randomized, double-blind, placebo-controlled, phase	(300mg, IV) is € 2.036,04*; the cost of therapy cycle
Brand Name: Entyvio®	indicated for the treatment	IV study. Eligible pts (n=102) were adults with UC who had undergone a proctocolectomy and	is 12.216,04 [5].
	of adults with moderately to	IPAA, and had developed active chronic pouchitis, defined as pts who had inadequate	*ex-factory price.
Originator/licensee:	severely active CP, who have	response or lost response to antibiotics therapy. Pts were randomly assigned (1:1) to receive	
Takeda Pharma A/S	undergone proctocolectomy	vedolizumab IV 300 mg (n=51) or placebo IV (n=51) once at day 1, weeks 2, 6, 14, 22, and 30	Epidemiology:
	and IPAA for UC and have had	along with ciprofloxacin 500 mg, tablet, orally twice daily up to week 4.	In Italy, the available incidence estimates are
Classification: NI	an inadequate response with	The primary endpoint was the percentage of pts with chronic or recurrent pouchitis achieving	generally based on relatively small populations. A
	or lost response to antibiotic	clinically relevant remission after 14 weeks of treatment. Measured using the mPDAI, clinical	review based on 16 studies reported for the early
ATC code: L04AA	therapy. [2]	remission rates were 31.4% (95% CI: 19.1% – 45.9%) in pts in the vedolizumab IV arm,	2010s incidence rates of UC as 10-15 cases per
		compared with 9.8% (95% CI: 3.3% – 21.4%) in the placebo arm [3,4].	100,000 inhabitants per year [6]. 15% of pts with UC
Orphan Status:	Route of administration: IV		undergo surgery. After surgery, some pts develop CP
Eu: No		Summary of clinical SAFETY: no new safety signals were identified in the trial. AEs were	or CDP but the proportion is highly variable; about
Us: -	Licensing status	reported in 92.2% and 86.3% of pts treated with vedolizumab and placebo, respectively.	15-20% of pts with pouchitis can have a chronic,
	EU CHMP P.O. date:	Treatment-related AEs were reported in 23.5% and 21.6% of pts treated with vedolizumab	continuous or intermittent course [7].
Mechanism of action:	16/12/2021	and placebo, respectively. SAEs were reported in three (5.9%) and four (7.8%) pts treated	A study conducted in France, in the Paris area, found
vedolizumab is a	FDA M.A. date: -	with vedolizumab and placebo, respectively [3,4].	that two and five years after surgery, 7.6% (95% CI:
humanized IgG1			3.8–11.3) and 19.5% (95%CI: 12.2–26.2) of patients
monoclonal antibody	EU Speed Approval Pathway:	Ongoing studies:	had a CP, respectively [8].
directed against the human	-	• For the same indication: No	
integrin α4β7 which is		• For other indications: Yes	POSSIBLE PLACE IN THERAPY
preferentially expressed on	ABBREVIATIONS:	Discontinued studies (for the same indication): No	In pts with moderately to severely active CP, the use
T helper lymphocytes.	AEs: Adverse Events CDP: Crohn's disease of the		of antibiotics (es: quinolones) is recommended. The
Vedolizumab selectively	pouch	References:	use of probiotics can prevent the appearance of CP.
inhibits the binding of	CHMP: Committee for Medicinal	1. https://www.ema.europa.eu/en/documents/assessment-report/entyvio-epar-public-assessment-report en.pdf	5-10% of pts are refractory to all medical therapies
α4β7 integrin with the	Products for Human Use	2. https://www.ema.europa.eu/en/medicines/human/summaries-opinion/entyvio-0	and require conversion to a conventional ileostomy
adhesion molecule cellular	CP: chronic pouchitis	3. https://adisinsight.springer.com/trials/700272522	according to Brooke [9].
(MAdCAM-1)	GI: gastrointestinal	4. https://www.takeda.com/newsroom/newsreleases/2021/takeda-receives-positive-chmp-opinion-for-	OTHER INDICATIONS IN DEVELOPMENT. 1111/
overexpressed in blood	GALT: gut associated lymphoid	vedolizumab-iv-for-the-treatment-of-active-chronic-pouchitis/	OTHER INDICATIONS IN DEVELOPMENT: HIV-
vessels and lymph nodes of	tissue IgG1: Immunoglobulin G1	5. https://gallery.farmadati.it/Home.aspx	infection (phase II, NCT03147859), Hematopoietic
the GI tract inflamed. By inhibiting this bond,	IPAA: ileal pouch anal	6. https://pubmed.ncbi.nlm.nih.gov/33784448/ 7. https://intestino.iannetti.it/MALATTIA-INTESTINO/MALATTIE_CRONICHE_INTESTINALI/	Stem Cells (phase III, NCT03657160).
,	anastomosis	8. https://www.dldjournalonline.com/article/S1590-8658(21)00143-2/fulltext#seccesectitle0016	SAME INDICATION IN EARLIER LINE(S) OF
vedolizumab prevents the	M.A.: Marketing Authorization	9. https://www.msdmanuals.com/it-it/professionale/disturbi-gastrointestinali/malattia-infiammatoria-	TREATMENT: -
passage of lymphocytes from the blood circulation	mPDAI: modified Pouchitis	cronica-intestinale/colite-ulcerosa	INEATIVIEWI
to the gut lamina propria	Disease Activity Index	S. S. M. S. S. M. S. S. M. S.	OTHER DRUGS IN DEVELOPMENT for the SAME
and GALT [1].	P.O.: Positive Opinion		INDICATION: tofacitinib, fecal microbiota
and OAEI [1].	Pts: patients SAEs: Serious Adverse Events		transplantation, ustekinumab, AMT-101.
	UC: ulcerative colitis		Cansplantation, asternamas, Aivit 101.
			*Service reorganization: Yes
			*Possible off label use: Yes
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