## Report VERQUVO® Vericiguat

Product &	Authorized indications	Essential therapeutic features	NHS impact
Mechanism of	Licensing status		
action			
Substance:	Authorized Indication:	Summary of clinical EFFICACY:	Cost of therapy:
vericiguat	EMA: vericiguat is indicated for the	VICTORIA (NCT02861534) is a randomized parallel-group, placebo-controlled, double-blind, event-	In US 30 tablets (10 mg) cost
	treatment of symptomatic chronic		\$618.05 [6].
Brand Name:	HF in adults with reduced ejection	II-IV), LVEF of <45% and plasma elevated BNP level. All pts received guideline-based medical therapy. Pts	
VERQUVO®	fraction who are stabilized after a	were randomly assigned to 2,5 mg vericiguat or matching placebo. Doses of vericiguat were increased to	Epidemiology:
	recent decompensation event	5 mg and to 10 mg once daily. The primary endpoint was a composite of death from CV causes or first	In Italy the prevalence of HF is
Originator/license	requiring IV therapy [1].	hospitalization for HF.	1-2%, with 80.000 new
e: Bayer AG		At a median of 10,8 months, the incidence of the primary outcome was 35,5% (897/2526 pts ) in the	incident cases/year [7]
	Route of administration: OS	vericiguat arm vs 38,5% (972/2524 pts) in placebo group [HR, 0,90; 95% CI, 0,82 to 0,98; p=0,02][2-4]	
Classification: NCE			POSSIBLE PLACE IN THERAPY
	Licensing status	Summary of clinical SAFETY:	Currently, the treatment of HF
ATC code:	<b>EU CHMP P.O. date</b> : 20/5/2021	Incidences of serious AE were similar in the vericiguat (32.8%) and placebo (34.8%) groups; among these	consists in:
C01DX22	FDA M.A. date: 19/1/2021	anaemia occurred in 1,6% of the pts in the vericiguat group and 0,9% of the subjects in the placebo	- ACE inhibitor and a beta-
		group.	blocker or ARB in subjects
Orphan Status:	EU Speed Approval Pathway: No	Non-serious AE in vericiguat group vs placebo arm were symptomatic hypotension (9.1% vs 7.9%) and	with HFrEF and intolerable
Eu: No	FDA Speed Approval Pathway: Yes	syncope (4.0% vs 3.5%) [2][4].	side effects with ACE-
Us: No			inhibitors; people
	ABBREVIATIONS:	Ongoing studies:	- MRA in addition to an ACE
Mechanism of	ACE: angiotensin-converting enzyme	For the same indication: Yes	inhibitor (or ARB) and beta-
action: vericiguat	AE: adverse events	For other indications: No	blockers, if pts continue to
stimulates directly	ARB: angiotensin II receptor blocker BNP: B-type natriuretic peptide		have symptoms of HF [8].
sGC, independently	CHMP: Committee for Medicinal	Discontinued studies (for the same indication): Yes [5]	
of and	Products for Human Use	, , , , , , , , , , , , , , , , , , , ,	OTHER INDICATIONS IN
synergistically with	CV: cardiovascular	References:	DEVELOPMENT: No
NO, to augment	HF: heart failure	1. <a href="https://www.ema.europa.eu/en/medicines/human/summaries-opinion/verquvo">https://www.ema.europa.eu/en/medicines/human/summaries-opinion/verquvo</a>	
the levels of	HFrEF: Heart failure with reduced	2. <a href="https://clinicaltrials.gov/ct2/show/NCT02861534">https://clinicaltrials.gov/ct2/show/NCT02861534</a>	SAME INDICATION IN
intracellular cGMP.	ejection fraction	3. <a href="https://www.accessdata.fda.gov/drugsatfda">https://www.accessdata.fda.gov/drugsatfda</a> docs/label/2021/214377s000lbl.pdf	EARLIER LINE(S) OF
This leads to	LVEF: Left ventricular ejection	4. Armstrong, Paul W et al. "Vericiguat in Patients with Heart Failure and Reduced Ejection Fraction." The New	TREATMENT: -
smooth muscle	fraction	England journal of medicine vol. 382,20 (2020): 1883-1893. doi:10.1056/NEJMoa1915928  5. https://clinicaltrials.gov/ct2/show/NCT04464525?recrs=ghi&cond=Heart+Failure+with+reduced+Ejection+Fracti	
relaxation and	M.A.: Marketing Authorization	on&phase=2&draw=2&rank=2	OTHER DRUGS IN
vasodilation, which	MRA: mineralocorticoid receptor	6. https://www.drugs.com/price-guide/verguvo	DEVELOPMENT FOR THE
may improve both	antagonist NO: nitric oxide	7. Aldo Pietro Maggioni, Federico Spandonaro. Lo scompenso cardiaco acuto in Italia, G Ital Cardiol 2014;15(2	SAME INDICATION:
myocardial and	NYHA: New York Heart Association	Suppl.2):3S-4S	Omecamtiv Mecarbil [9]
vascular function	P.O.: Positive Opinion	8. <a href="https://snlg.iss.it/wp-content/uploads/2019/10/scompenso-cardiaco-cronico.pdf">https://snlg.iss.it/wp-content/uploads/2019/10/scompenso-cardiaco-cronico.pdf</a>	
[1].	pts: patients	9. <a href="https://clinicaltrials.gov/ct2/show/NCT03759392?recrs=abdef&amp;type=Intr&amp;cond=Heart+Failure&amp;phase=2&amp;draw">https://clinicaltrials.gov/ct2/show/NCT03759392?recrs=abdef&amp;type=Intr&amp;cond=Heart+Failure&amp;phase=2&amp;draw</a>	[if it is]
	sGC: soluble guanylate cyclase	<u>=2&amp;rank=77</u>	*Service reorganization No
	vs: versus		*Possible off label use No