Report MAVIRET® Glecaprevir/Pibrentasvir

Product & Mechanism of action	Authorized indications Licensing status	Essential therapeutic features	NHS impact
Substance:	Authorized Indication:	Summary of clinical EFFICACY:	Cost of Therapy:
glecaprevir/pibrenta	EMA: GLE/PIB is indicated	STUDY M16-123DORA (NCT03067129): is a phase II/III, non-randomized, open-label, multinational study. Part 2 of	84 coated tablets of GLE100 mg/PIB 40 mg cost € 12.635 (ex-factory price)
svir	for the treatment of chronic	the study evaluated children 3- <12 years of age, who were given a pediatric formulation of GLE/PIB. Eligible pts	[4].The price of the paediatric formulation (granules) is not available. The
	HCV infection in adults and	(n=80) were children with chronic HCV infection, GT 1-6, with or without compensated cirrhosis, who were divided	paediatric dosage depends on weight.
Brand Name:	children aged 3 years and	into 3 cohorts by age: cohort 2 (9-<12 years), cohort 3 (6-<9 years), cohort 4 (3-<6 years) and given weight-based	paediatric dosage depends on weight.
MAVIRET®	older [2].	doses of GLE/PIB for 8, 12, or 16 weeks.	Enidomiology
		The primary efficacy endpoint was SVR12 (HCV RNA less than 15 IU/mL at post-treatment week 12).	Epidemiology:
Originator/licensee:	FDA: -	The overall SVR12 rate was 96% (77/80 pts, 95% CI, 90 to 99%). The single SVR12 rates were 93% (27/29 pts, 95% CI,	The global estimate for viraemic prevalence in the paediatric population
AbbVie Deutschland		78 to 98%) for cohort 2, 100% (27/27 pts, 95% Cl, 88 to 100%) for cohort 3 and 96% (23/24 pts, 95% Cl, 80 to 99%)	aged 0–18 years was 0·13% (95% uncertainty interval 0·08–0·16),
GmbH & Co. KG	Route of administration: OS	for cohort 4.	corresponding to 3·26 million (2·07–3·90) children with HCV in 2018. HCV
		The primary PK endpoint was the steady-state AUC values at 0 and 24 hours for GLE and PIB. Final pediatric dosages	prevalence increased with age in all countries and territories. HCV
Classification: NI	Licensing status	determined to be efficacious were 250 mg GLE + 100 mg PIB (children weighing ≥30 kg to <45 kg), 200 mg GLE + 80	prevalence in women of childbearing age was the strongest predictor of
ATC I 105 AD57	EU CHMP P.O.	mg PIB (\ge 20 kg to <30 kg), and 150 mg GLE + 60 mg PIB (12 kg to < 20 kg) [3].	HCV prevalence in children aged 0–4 years (p<0·0001). Prevalence of HCV
ATC code: J05AP57	date:22/04/2021	Common of divised CAFFTV.	in adults was significantly associated with HCV prevalence in children aged
Orphan Status:	FDA M.A. date: -	Summary of clinical SAFETY: AEs occurred in 71% of pts. The most common AEs were headache (14%), vomiting (14%) and diarrhoea (10%). No	5–19 years (p<0.0001), and the proportion of HCV infections in people who
Eu: No	EU Speed Approval	treatment-emergent SAEs were reported. Two children discontinued treatment prematurely: one child refused to	inject drugs was significantly associated with HCV prevalence in children
Us: -	Pathway: Yes	swallow the granule formulation and one child discontinued treatment due to a drug-related rash [3].	, , , , , , , , , , , , , , , , , , , ,
03	FDA Speed Approval	swanow the grandle formulation and one child discontinued treatment due to a drug-related rash [5].	aged 15–19 years (p=0·036)[5][6].
Mechanism of	Pathway:	Ongoing studies:	
action: GLE/PIB is a		For the same indication: Yes	POSSIBLE PLACE IN THERAPY
fixed-dose	ABBREVIATIONS:	For other indications: No	- Treatment-naive or interferon-experienced children and adolescents
combinationof two	AE: adverse event	o for other manufacture.	(without cirrhosis or with compensated cirrhosis) [7] [8]:
pan-genotypic	AUC: area under the plasma	Discontinued studies (for the same indication): No	• an 8-week course of the daily fixed-dose combination of GLE 300
targeting multiple	concentration-time curve	Discontinued studies (for the same indication): No	mg/PIB 120 mg is recommended as first-line option in treatment-naive
steps in the HCV	CHMP: Committee for	References:	adolescents aged ≥12 years or weighing ≥ 45 kg with any GT.
viral lifecycle:	Medicinal Products for	1. https://ec.europa.eu/health/documents/community-register/2019/20190311144028/anx_144028_en.pdf	• a 12-week course of the combination of ledipasvir/sofosbuvir is
glecaprevir is a pan-	Human Use	2. https://www.ema.europa.eu/en/medicines/human/summaries-opinion/maviret	recommended for use in children aged 3-17 years with GT 1, 4, 5, or 6
genotypic inhibitor	CI: Confidence Interval	3. https://aasldpubs.onlinelibrary.wiley.com/doi/epdf/10.1002/hep.31841	infection.
of the HCV NS3/4A	DAA : Direct-acting Antiviral	4. https://gallery.farmadati.it/Home.aspx	- DAA-experienced children and adolescents with HCV GT 1, 2, 4, 5, 6: a
protease necessary	GLE: Glecaprevir	s. https://www.who.int/publications/i/item/global-hepatitis-report-2017	daily fixed-dose combination of GLE 300 mg/PIB 120 mg is recommended
for viral replication;	GT: Genotype	6. https://journals.lww.com/jpgn/Fulltext/2018/03000/Treatment of Chronic Hepatitis C Virus Infection.32.asp	for pts aged ≥12 years or weighing ≥45 kg with prior exposure to an
pibrentasvir is a	HCV: hepatitis C virus	<u> </u>	interferon-based regimen (± ribavirin) and/or sofosbuvir but no exposure
pan-genotypic inhibitor of HCV	PIB: Pibrentasvir	7. https://aasldpubs.onlinelibrary.wiley.com/doi/pdf/10.1002/hep.31060	to NS3/4A or NS5A protease inhibitors [7] [8].
NS5A, which is	PK: pharmacokinetics pts: patients	8. https://www.hcvguidelines.org/unique-populations/children	
essential for viral	SAE: serious adverse event	9. $https://clinicaltrials.gov/ct2/results?cond=\&term=\&type=\&rslt=\&recrs=b\&recrs=a\&recrs=f\&recrs=d\&recrs=e\&ag=bkrecrs=bkrecrs=f\&recrs=bkrec$	OTHER INDICATIONS IN DEVELOPMENT:No [9][10].
RNA replication and	SVR12: Sustained Virologic	e v=&gndr=&intr=Glecaprevir%2Fpibrentasvir&titles=&outc=&spons=&lead=&id=&cntry=&state=&city=&dist=&	
virion assembly [1].	Response at Post-treatment	locn=&phase=1&phase=2&rsub=&strd s=&strd e=&prcd s=&prcd e=&sfpd s=&sfpd e=&rfpd s=&rfpd e=&lu	SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: -
on assembly [1].	Week 12	pd s=&lupd e=&sort=	.,
	WHO: World Health	10. https://adisinsight.springer.com/drugs/800044162	OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION: narlaprevir,
	Organization	11. https://clinicaltrials.gov/ct2/results?cond=Hepatitis+C&term=&type=&rslt=&recrs=b&recrs=a&recrs=f&recrs=d&	yimitasvir, grazoprevir, radalbuvir, furaprevir [11][12].
		recrs=e&age_v=&gndr=&intr=&titles=&outc=&spons=&lead=&id=&cntry=&state=&city=&dist=&locn=&phase=2	*Service reorganization: No
		&rsub=&strd s=&strd e=&prcd s=&prcd e=&sfpd s=&sfpd e=&rfpd s=&rfpd e=&lupd s=&lupd e=&sort=	
		12. https://adisinsight.springer.com/search	*Possible off label use: No