

Eptinezumab (prophylaxis of migraine)

Resolution of:16 February 2023Entry into force on:16 February 2023Federal Gazette, BAnz AT 09 05 2023 B5

valid until: unlimited

Therapeutic indication (according to the marketing authorisation of 24 January 2022):

VYEPTI is indicated for the prophylaxis of migraine in adults who have at least 4 migraine days per month.

Therapeutic indication of the resolution (resolution of 16 February 2023):

See [new] therapeutic indication according to marketing authorisation.

- 1. Additional benefit of the medicinal product in relation to the appropriate comparator therapy
- a) <u>Adults who have at least 4 migraine days per month and are eligible for conventional</u> <u>prophylaxis of migraine</u>

Appropriate comparator therapy for eptinezumab for prophylaxis of migraine:

 Metoprolol or propranolol or flunarizine or topiramate or amitriptyline or clostridium botulinum toxin type A or erenumab

Extent and probability of the additional benefit of eptinezumab compared to the appropriate comparator therapy:

An additional benefit is not proven.

 b) Adults who have at least 4 migraine days per month and who do not respond to, are ineligible for, or are intolerant to any of the medicinal therapies/ product classes (metoprolol, propranolol, flunarizine, topiramate, amitriptyline, clostridium botulinum toxin type A)

Appropriate comparator therapy for eptinezumab for prophylaxis of migraine:

- Erenumab or fremanezumab or galcanezumab

Extent and probability of the additional benefit of eptinezumab compared to fremanezumab:

An additional benefit is not proven.

Study results according to endpoints:¹

a) Adults who have at least 4 migraine days per month and are eligible for conventional prophylaxis of migraine

No data available.

Summary of results for relevant clinical endpoints

Endpoint category	Direction of effect/ risk of bias	Summary			
Mortality	Ø	No data available.			
Morbidity	Ø	No data available.			
Health-related quality of life	Ø	No data available.			
Side effects	Ø	No data available.			
Explanations: \uparrow : statistically significant and relevant positive effect with low/unclear reliability of data \downarrow : statistically significant and relevant negative effect with low/unclear reliability of data $\uparrow\uparrow$: statistically significant and relevant positive effect with high reliability of data $\downarrow\downarrow$: statistically significant and relevant negative effect with high reliability of data $\downarrow\downarrow$: statistically significant and relevant negative effect with high reliability of data $\downarrow\downarrow$: statistically significant or relevant negative effect with high reliability of data					
\varnothing : There are no usable data for the	benefit assessment.				

n.a.: not assessable

b) Adults who have at least 4 migraine days per month and who do not respond to, are ineligible for, or are intolerant to any of the medicinal therapies/ product classes (metoprolol, propranolol, flunarizine, topiramate, amitriptyline, clostridium botulinum toxin type A)

Summary of results for relevant clinical endpoints

Endpoint	Direction of effect/	Summary		
category	risk of bias			
Mortality	\leftrightarrow	No relevant difference for the benefit		
		assessment		
Morbidity	\leftrightarrow	No relevant difference for the benefit		
		assessment		
Health-related	\leftrightarrow	No relevant difference for the benefit		
quality of life		assessment		
Side effects	\leftrightarrow	No relevant difference for the benefit		
		assessment		
Explanations:				
\uparrow : statistically significant and relevant positive effect with low/unclear reliability of data				
\downarrow : statistically significant and relevant negative effect with low/unclear reliability of data				
个个: statistically sigr	nificant and relevant positive	effect with high reliability of data		

 $[\]downarrow \downarrow$: statistically significant and relevant negative effect with high reliability of data

 $[\]leftrightarrow$: no statistically significant or relevant difference

¹ Data from the dossier assessment of the Institute for Quality and Efficiency in Health Care (IQWiG) (A22-95) unless otherwise indicated.

 \varnothing : There are no usable data for the benefit assessment. n.a.: not assessable

Indirect comparison: Eptinezumab (DELIVER study) vs fremanezumab (FOCUS study) via the bridge comparator placebo.

Mortality

Endpoint Comparator	Eptinezumab or fremanezumab		Placebo		Group difference	
study	N	Patients with event n (%)			RR [95% CI] p value	
Overall survival/ mortality						
Eptinezumab vs placebo DELIVER (until week 24)	284	0 (0)	287	0 (0)	-	
Fremanezumab vs placebo FOCUS (until week 12)	388	0 (0)	195 0 (0)		-	
Indirect co	Indirect comparison via bridge comparators ^a :					
Eptinezum	Eptinezumab vs fremanezumab -					

Morbidity

Endpoint Comparator		Eptinezumab or fremanezumab		Placebo	Group difference	
study	N	N Patients with event n (%)		Patients with event n (%)	RR [95% CI] p value	
Symptomatology:	Migra	ine days/month				
Reduction by $\geq 50\%$	%					
Eptinezumab vs placebo DELIVER (until week 12)	284	123 (43.3)	287	38 (13.2)	3.27 [2.36; 4.53] < 0.001 ^b	
Fremanezumab vs placebo FOCUS (until week 12)	388	144 (37.1°)	195	19 (9.7°)	3.82 [2.44; 5.97] < 0.001 ^d	
Indirect co	Indirect comparison via bridge comparators ^a :					
Eptinezum	_e					
Reduction by \geq 75%	Reduction by ≥ 75%					

Eptinezumab vs placebo DELIVER (weeks 1-12)	284	47 (16.5)	287	6 (2.1)	7.90 [3.44; 18.1] < 0.001 ^b
Fremanezumab vs placebo FOCUS (Week 1-12)	388	46 (11.9°)	195	5 (2.6°)	4.64 [1.87; 11.48] < 0.001 ^d
Indirect comparison via bridge comparators ^a :					
Eptinezum	_e				

Endpoint Comparator		Eptinezuma fremanezu			Placebo	Group difference	
study	N ^h	Values at the start of the study MV (SD)	Change at week 12 MV (SE/SD) ⁱ	N ^h	Values at the start of the study MV (SD)	Change at week 12 MV (SE/SD) ⁱ	MD [95% CI] p value
Symptomatology:	Heada	ache days/m	nonth				
Any severity (prese	ented a	dditionally)					
Eptinezumab vs placebo DELIVER	284	14.5 (5.7)	-4.6 (0.4) ^j	287	14 <i>,</i> (5.9)	-2, (0.4) ^j	-2.7 [-3.4; -1.9] < 0.001 ^j
Fremanezumab vs placebo FOCUS	388	14.2 (5.8)	-4.7 (4.6)	195	14.2 (6.1)	-1.3 (4.2)	-3.47 [-4.32; -2.62] < 0.001 ^k
Indirect co	mpari	son via brid	ge compara	tors ^a :			
Eptinezum	ab vs f	remanezum	iab				_ ^e
Health status (EQ-	5D VA	S) ^p					
Eptinezumab vs placebo DELIVER	n.d. m	76.0 (19.0)	2.3 (1.5) ⁿ	n.d. m	73.9 (20.6)	-2.9 (1.5) ⁿ	5.2 [2.20; 8.29] < 0.001 ⁿ
Fremanezumab vs placebo FOCUS	388	69.6 (21.2)	6.3 (20.1)	195	70.1 (20.1)	1.7 (17.6)	4.22 [1.28; 7.17] 0.005 ^q
Indirect co	mpari	son via brid	ge compara	tors ^a :			
Eptinezum	Eptinezumab vs fremanezumab						0.98 [-3.26; 5.22] 0.650

Health-related quality of life

Endpoint Comparator		Eptinezuma fremanezu			Placebo)	Group difference
study	N ^h	Values at the start of the study MV (SD)	Change at week 12 MV (SE/SD) ⁱ	N ^h	Values at the start of the study MV (SD)	Change at week 12 MV (SE/SD) ⁱ	MD [95% CI] p value
General impairme	nt due	to headach	ne (HIT-6) ⁱ				
Any severity							
Eptinezumab vs placebo DELIVER	n.d. m	66.6 (4.7)	-7.1 (0.7) ⁿ	n.d. ×	66.3 (4.4)	-3.2 (0.6) ⁿ	-3.8 [-5.1; -2.6] < 0.001 ⁿ
Fremanezumab vs placebo FOCUS	388	64.2 (4.4)	-6.4 (7.2)	195	64.0 (5.2)	-3.0 (6.2)	-3.37 [-4.45; -2.30] < 0.001°
Indirect co	ompari	son via brid	ge compara	tors ^a :			
Eptinezum	ab vs f	remanezum	ab				-0.43 [-2.08; 1.22] 0.609
MSQoL ^p							
Role Function-Rest	rictive						
Eptinezumab vs placebo DELIVER	n.d. m	35.7 (17.6)	25.3 (1.9) ⁿ	n.d. m	35.0 (17.0)	14.0 (1.8) ⁿ	11.3 [7.87; 14.8] < 0.001 ⁿ
Fremanezumab vs placebo FOCUS	388	47.6 (17.4)	18.3 (20.4)	195	47.6 (19.0)	9.7 (17.2)	9.06 [5.77; 12.35] < 0.001°
Indirect co	ompari	son via brid	ge compara	tors ^a :			
Eptinezum	ab vs f	remanezum	iab				2.24 [-2.54; 7.02] 0.358
Role Function-Prev	ventive						
Eptinezumab vs placebo DELIVER	n.d. m	50.2 (21.6)	23.1 (1.7) ⁿ	n.d. m	50.4 (22.0)	11.8 (1.7) ⁿ	11.3 [8.01; 14.5] < 0.001 ⁿ
Fremanezumab vs placebo FOCUS	388	63.2 (20.4)	14.5 (18.5)	195	64.2 (21.0)	8.6 (17.4)	5.81 [2.82; 8.80] < 0.001°
Indirect co	ompari	son via brid	ge compara	tors ^a :			
Eptinezumab vs fremanezumab					5.49 [1.08; 9.9] 0.015 SMD: 0.2 [0.04; 0.35]		

Emotional state							
Eptinezumab vs placebo DELIVER	n.d. m	50.1 (24.5)	21.2 (2.0) ⁿ	n.d. m	48.6 (26.7)	9.9 (1.9) ⁿ	11.3 [7.63; 15.0] < 0.001"
Fremanezumab vs placebo FOCUS	388	60.6 (23.9)	16.6 (22.6)	195	60.6 (25.3)	8.1 (21.9)	9.14 [5.52; 12.77] < 0.001°
Indirect comparison via bridge comparators ^a :							
Eptinezumab vs fremanezumab						2.16 [-3.01; 7.33]; 0.413	

Side effects

Endpoint Comparator		Eptinezumab or fremanezumab		Placebo	Group difference			
study	N	Patients with event n (%)	N	Patients with event n (%)	RR [95% CI] p value			
Total adverse eve	Total adverse events (AE) (presented additionally)							
Eptinezumab vs placebo DELIVER (until week 24)	284	115 (40.5)	287	112 (39.0)	-			
Fremanezumab vs placebo FOCUS (until week 12)	388	208 (53.6)	195 19 (51.8°)		-			
Serious adverse e	vents (SAE)						
Eptinezumab vs placebo DELIVER (until week 24)	284	4 (1.4)	287	4 (1.4)	1.0 [0.3; 4.0] 0.987 ^f			
Fremanezumab vs placebo FOCUS (until week 12)	388	4 (1.0 ^c)	195 3 (1.5°)		0.67 [0.15; 2.96] 0.625 ^g			
Indirect co	ompari	son via bridge compara	tors ^a :					
Eptinezum	Eptinezumab vs fremanezumab 1.49 [0.21; 10.76] 0.691							
Therapy discontin	uation	due to adverse events						
Eptinezumab vs placebo DELIVER (until week 24)	284	0 (0)	287	0 (0)	1.01 [0.06; 16.1] 0.994 ^f			

vs FO	emanezumab 388 3 (0.8) 199 placebo CUS ntil week 12)		195	2 (1.0°)	0.75 [0.13; 4.47] 0.829 ^g		
	Indirect co	omparis	son via bridge compara	ators ^a :			
	Eptinezum	nab vs f	remanezumab			1.35 [0.05; 35.87] 0.858	
а. b. c.	b. RR and CI: Log-binomial model; adjusted for monthly migraine days at the start of the study (≤ 14 days/ > 14 days); p value: Logistic model; adjusted for monthly migraine days at the start of the study (≤ 14 days/ > 14 days) and baseline. Mean percentage change in monthly migraine days was calculated over the 3 4-week intervals. These were replaced, depending on the number of missing diary entries (< 14 days/ ≥ 14 days) and, if applicable, the reason for discontinuation; in the 3 4-week intervals, diary entries were available for ≥ 21 days for > 90% of the patients in both treatment groups.						
d.	considered non- based on the ex LOCF. The exten	respond isting da t of rep	nditional exact test, CSZ m ders. For diary entries on a ata; for diary entries on < lacements made is unclea	≥ 10 day 10 day ır.	rs/month, an extrapolatio s/month, the missing valu	n to 28 days was made, les were updated using	
e.			is used for the benefit as indirect comparison is no		nt as the requirement for	the certainty of results	
f.	RR and CI: Log-b of the study (≤ 1 cell entry in the	inomial 4 days/ corresp	model; p value: CMH tes ' > 14 days). In the case o onding four-field table; fo was made per stratum, i.e	it; each f a zero or the ca	cell, the correction value lculation of the RR as wel	0.5 was added to each I as the performance of	
g.			onditional exact test, CSZ				
h.			o were taken into account can be based on other pat			the effect estimate; the	
i. j. k.	For the DELIVER MV and SE (mea These were repl applicable, the r days for > 90% o (compared to th	study, i n chang laced, d eason f f the pa e start o	nformation is provided on the per treatment group) as lepending on the number or discontinuation; in the tients in both treatment go of the study) between the oup comparison); accordi	n the SE s well as r of mis 3 4-we groups. e treatm	, for the FOCUS study on a MD, CI and p value (group sing diary entries (< 14 d ek intervals, diary entries Effect represents the diffe ent groups in the first 12	comparison): MMRM. ays/ \geq 14 days) and, if were available for \geq 21 rence in mean changes weeks of the study.	
	baseline were e days was made, updated using L	xcluded based c DCF. The	from the analysis. For di on the existing data; for di e extent of replacements i he start of the study) bety	ary ent ary enti made is	ries on ≥ 10 days/month, ies on < 10 days/month, t unclear. Effect represents	an extrapolation to 28 he missing values were the difference in mean	
Ι.	Lower scores m comparison a ne	nean les egative	ss overall impairment du group difference means a gative effects mean an ad	ue to h an adva	eadache (scale range 36 ntage of eptinezumab or	to 78), and in direct	
m.							
n.	MV and SE (mean change per treatment group) as well as MD, CI and p value (group comparison): MMRM. Effect represents the difference in changes (compared to the start of the study) between treatment groups at week 12.						
0.	MD, CI and p value (group comparison); according to study documents: MMRM. Effect represents the						
p. q.	difference in changes (compared to the start of the study) between treatment groups at week 12. Higher values mean a better health status (scale range 0 to 100) or a better health-related quality of life (scale range Role Function-Restrictive 7 to 42, Role Function-Preventive 4 to 24, Emotional Function 3 to 18); in a direct comparison, a positive group difference means an advantage of eptinezumab or fremanezumab. In the indirect comparison, positive effects mean an advantage of eptinezumab. MD, Cl and p value (group comparison); according to study documents: ANCOVA. Effect represents the difference in changes (compared to the start of the study) between treatment groups at week 12.						
Abb	difference in cha previations used:	anges (c	ompared to the start of th	ne study	/) between treatment gro	ups at week 12.	

ANCOVA = analysis of covariance; HIT-6 = Headache Impact Test-6; CI = confidence interval; LOCF = Last Observation Carried Forward; MD = mean difference; MMRM = mixed model for repeated measures; MSQoL = Migraine-Specific Quality of Life; MV = mean value; N = number of patients evaluated; n = number of patients with (at least one) event; RR = relative risk; SD = standard deviation; SE = standard error; SMD = standard mean difference; VAS = visual analogue scale; vs = versus

2. Number of patients or demarcation of patient groups eligible for treatment

a) Adults who have at least 4 migraine days per month and are eligible for conventional prophylaxis of migraine

Approx. 1,598,600 to 1,628,400 patients

b) Adults who have at least 4 migraine days per month and who do not respond to, are ineligible for, or are intolerant to any of the medicinal therapies/ product classes (metoprolol, propranolol, flunarizine, topiramate, amitriptyline, clostridium botulinum toxin type A)

Approx. 15,700 to 16,800 patients

3. Requirements for a quality-assured application

The requirements in the product information are to be taken into account. The European Medicines Agency (EMA) provides the contents of the product information (summary of product characteristics, SmPC) for Vyepti (active ingredient: eptinezumab) at the following publicly accessible link (last access: 11 January 2023):

https://www.ema.europa.eu/en/documents/product-information/vyepti-epar-productinformation_en.pdf

Treatment with eptinezumab should only be initiated and monitored by doctors experienced in migraine therapy.

4. Treatment costs

Annual treatment costs:

a) Adults who have at least 4 migraine days per month and are eligible for conventional prophylaxis of migraine

Designation of the therapy	Annual treatment costs/ patient			
Medicinal product to be assessed:				
Eptinezumab	€ 5,416.02 -€ 16,248.07			
Appropriate comparator therapy:				
Amitriptyline	€ 58.33 - € 95.78			

Designation of the therapy	Annual treatment costs/ patient
Flunarizine	€ 48.84 – € 76.97 ²
Metoprolol	€ 43.25 - € 61.39
Propranolol	€ 122.71 - € 184.07
Topiramate	€ 277.07
Clostridium botulinum toxin type A ³	€ 3,372.03
Erenumab	€ 3,794.31

Costs after deduction of statutory rebates (LAUER-TAXE®) as last revised: 1 February 2023)

Costs for additionally required SHI services: not applicable

Other SHI benefits: not applicable

 Adults who have at least 4 migraine days per month and who do not respond to, are ineligible for, or are intolerant to any of the medicinal therapies/ product classes (metoprolol, propranolol, flunarizine, topiramate, amitriptyline, clostridium botulinum toxin type A)

Designation of the therapy	Annual treatment costs/ patient
Medicinal product to be assessed:	
Eptinezumab	€ 5,416.02 -€ 16,248.07
Appropriate comparator therapy:	
Erenumab	€ 3,794.31
Fremanezumab	€ 5,035.20
Galcanezumab	€ 5,301.32

Costs after deduction of statutory rebates (LAUER-TAXE®) as last revised: 1 February 2023)

Costs for additionally required SHI services: not applicable

Other SHI benefits: not applicable

5. Medicinal products with new active ingredients according to Section 35a, paragraph 3, sentence 4 SGB V that can be used in a combination therapy with Eptinezumab

Medicinal products with new active ingredients pursuant to Section 35a, paragraph 3, sentence 4 SGB V are medicinal products with the following new active ingredients that can be used in a combination therapy with eptinezumab for the prophylaxis of migraine in adults

² In accordance with the information provided in the product information, a limited treatment duration of six months is assumed for flunarizine. Notwithstanding this, the costs may be higher if treatment with flunarizine is started again at a later date.

³ According to the marketing authorisation only for chronic migraine.

who have at least 4 migraine days per month on the basis of the marketing authorisation granted under Medicinal Products Act:

- a) <u>Adults who have at least 4 migraine days per month and are eligible for conventional</u> prophylaxis of migraine
 - No active ingredient that can be used in a combination therapy that fulfils the requirements of Section 35a, paragraph 3, sentence 4 SGB V.
- b) Adults who have at least 4 migraine days per month and who do not respond to, are ineligible for, or are intolerant to any of the medicinal therapies/ product classes (metoprolol, propranolol, flunarizine, topiramate, amitriptyline, clostridium botulinum toxin type A)
 - No active ingredient that can be used in a combination therapy that fulfils the requirements of Section 35a, paragraph 3, sentence 4 SGB V.