

Resolution

of the Federal Joint Committee on an Amendment of the Pharmaceuticals Directive:

Annex XII – Benefit Assessment of Medicinal Products with New Active Ingredients according to Section 35a (SGB V)

Pembrolizumab (change to the therapeutic indication: oesophageal or gastro-oesophageal junction carcinoma, PD-L1 expression \geq 10 (CPS), first-line, combination with platinum and fluoropyrimidine-containing chemotherapy) Pembrolizumab (new therapeutic indication: gastric or gastro-oesophageal junction adenocarcinoma, PD-L1 expression \geq 1, HER2-, first-line, combination with fluoropyrimidine and platinum-containing chemotherapy)

of 20 June 2024

At its session on 20 June 2024, the Federal Joint Committee (G-BA) resolved to amend Annex XII of the Pharmaceuticals Directive (AM-RL) in the version dated 18 December 2008 / 22 January 2009 (Federal Gazette, BAnz. No. 49a of 31 March 2009), as last amended by the publication of the resolution of D Month YYYY (Federal Gazette, BAnz AT DD.MM.YYYY BX), as follows:

- I. The information on the active ingredient Pembrolizumab (new therapeutic indication: oesophageal or gastro-oesophageal junction carcinoma, PD-L1 expression ≥ 10 (CPS), first-line, combination with fluoropyrimidine and platinum-containing chemotherapy) in the version of the resolution of 5 May 2022 (BAnz AT 27.05.2022 B2) shall be amended as follows:
 - **1.** The following information is added after the information under the heading "New therapeutic indication (according to the marketing authorisation of 24 June 2021)":

"Therapeutic indication (according to the marketing authorisation of 23 November 2023)

KEYTRUDA, in combination with platinum and fluoropyrimidine-based chemotherapy, is indicated for the first-line treatment of locally advanced unresectable or metastatic carcinoma of the oesophagus in adults whose tumours express PD-L1 with a CPS \geq 10."

2. Under number 1 "Additional benefit of the medicinal product in relation to the appropriate comparator therapy", under the heading "Study results by endpoint", under number 2 "Number of patients or demarcation of the patient groups eligible for

treatment" and under number 4 "Treatment costs", a footnote "2" is added in each case after the words "or of the gastro-oesophageal junction".

3. The explanatory text of the footnote is worded as follows:

"The therapeutic indication for pembrolizumab was amended on 23 November 2023, among other things, to the effect that the information in section 4.1. on the indication "Oesophageal carcinoma" with reference to "HER2-negative adenocarcinoma of the gastro-oesophageal junction" was deleted and moved to the new therapeutic indication with the heading "Gastric or gastro-oesophageal junction (GEJ) adenocarcinoma". The findings on sub-population b1) "Adults with locally advanced or metastatic HER2-negative adenocarcinoma of the oesophagus or of the gastroesophageal junction which cannot be treated curatively and whose tumours express PD-L1 (Combined Positive Score (CPS) \geq 10); first-line therapy" were updated by resolution of 20 June 2024 for patients with locally advanced unresectable or metastatic HER2-negative adenocarcinoma of the gastro-oesophageal junction in adults whose tumours express PD-L1 (CPS \geq 1)."

II. The following information is added after No. 5 to the information on the benefit assessment of Pembrolizumab in the version of the resolution of 20 June 2024 for the therapeutic indication: "Gastric or gastro-oesophageal junction adenocarcinoma, PD-L1 expression ≥ 1, HER2+, first-line, in combination with trastuzumab, fluoropyrimidine and platinum-containing chemotherapy":

Pembrolizumab

Resolution of: 20 June 2024 Entry into force on: 20 June 2024 Federal Gazette, BAnz AT DD. MM YYYY Bx

New therapeutic indication (according to the marketing authorisation of 23 November 2023):

KEYTRUDA, in combination with fluoropyrimidine and platinum-containing chemotherapy, is indicated for the first-line treatment of locally advanced unresectable or metastatic HER2-negative gastric or gastro-oesophageal junction adenocarcinoma in adults whose tumours express PD-L1 with a CPS \geq 1.

Therapeutic indication of the resolution (resolution of 20 June 2024):

See new therapeutic indication according to marketing authorisation.

1. Additional benefit of the medicinal product in relation to the appropriate comparator therapy

Adults with locally advanced unresectable or metastatic HER2-negative gastric or gastrooesophageal junction (GEJ) adenocarcinoma whose tumours express PD-L1 with a CPS \geq 1; first-line therapy

Appropriate comparator therapy for pembrolizumab in combination with fluoropyrimidine and platinum-containing chemotherapy:

- cisplatin + capecitabine

or

oxaliplatin + capecitabine

or

cisplatin + S-1 (tegafur/ gimeracil/ oteracil)

or

- cisplatin + 5-fluorouracil (only for patients with adenocarcinoma of the oesophagus)

or

cisplatin + 5-fluorouracil + folinic acid (only for patients with adenocarcinoma of the oesophagus)

or

- epirubicin + cisplatin + capecitabine

or

- epirubicin + cisplatin + 5-fluorouracil

or

epirubicin + oxaliplatin + capecitabine

or

- docetaxel + cisplatin + 5-fluorouracil

or

 Nivolumab in combination with fluoropyrimidine and platinum-containing combination chemotherapy (only for tumours with PD-L1 expression (Combined Positive Score [CPS] ≥ 5))

or

5-fluorouracil + oxaliplatin + epirubicin (only for patients with adenocarcinoma of the oesophagus)

Extent and probability of the additional benefit of pembrolizumab in combination with fluoropyrimidine and platinum-containing chemotherapy compared with cisplatin + 5-fluorouracil or cisplatin + capecitabine or oxaliplatin + capecitabine

An additional benefit is not proven.

Study results according to endpoints:¹

Adults with locally advanced unresectable or metastatic HER2-negative gastric or gastrooesophageal junction (GEJ) adenocarcinoma whose tumours express PD-L1 with a CPS \geq 1; first-line therapy

Summary of	results for r	elevant clinical	endpoints
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Endpoint category	Direction of effect/	Summary			
	risk of bias				
Mortality	\uparrow	Advantage in overall survival.			
Morbidity	n.a.	There are no assessable data.			
Health-related quality	n.a.	There are no assessable data.			
of life					
Side effects	n.a.	There are no assessable data.			
Explanations:					
个: statistically significant a	nd 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 significant and relevant positive effect with high reliability of data					
$\downarrow \downarrow$: statistically significant	and relevant negative effe	ect with high reliability of data			
↔: no statistically significant or relevant difference					
arnothing: No data available.	arnothing: No data available.				
n.a.: not assessable					

Meta-analysis from the KEYNOTE-859 and KEYNOTE-062 studies

KEYNOTE-859 study

Pembrolizumab + fluoropyrimidine and platinum-containing chemotherapy* vs fluoropyrimidine and platinum-containing chemotherapy*

(* cisplatin + 5-fluorouracil or oxaliplatin + capecitabine)

KEYNOTE-062 study

Pembrolizumab + fluoropyrimidine and platinum-containing chemotherapy* vs fluoropyrimidine and platinum-containing chemotherapy*

(* cisplatin + 5-fluorouracil or cisplatin + capecitabine)

Relevant or approximate sub-population used:

Patients treated according to the appropriate comparator therapy, in particular treatment with cisplatin + 5-fluorouracil only in patients with adenocarcinoma of the oesophagus.

¹ Data from IQWiG's dossier assessment (A24-02)

Mortality

Endpoint		embrolizumab + hemotherapy ª	Chemotherapy ^a		Intervention vs control	
	N	Median survival time in months [95% Cl]	N	Median survival time in months [95% Cl]	Hazard ratio [95% CI] p value	
		Patients with event n (%)		Patients with event n (%)		
Overall survival						
KEYNOTE 062 ^b	159 °	n.d. 125 (78.6)	155 ^c	n.d. 132 (85.2)	0.77 [0.6; 0.98] 0.037 ^d	
KEYNOTE 859 ^e	618 ^c	13.0 [11.6; 14.2] 464 (75.1)	617 ^c	11.4 [10.5; 12.0] 526 (85.3)	0.74 [0.65; 0.84] < 0.001 ^f	
Total	·				0.75 [0.67; 0.84] < 0.001	

Morbidity

Endpoint		Pembrolizumab + chemotherapy ^a	Placebo + chemotherapy ^a		Intervention vs control		
	N	Median survival time in months [95% CI]	Ν	Ν	Median survival time in months [95% CI]		
		Patients with event n (%)			Patients with event n (%)		
KEYNOTE 062		No suitable data fo		antitative or qualitative	summany		
KEYNOTE 859	No suitable data for a quantitative or qualitative summary						
Total							

Health-related quality of life

Endpoint		Pembrolizumab + chemotherapy ^a	Placebo + chemotherapy ^a		Intervention vs control	
	N	Median survival time in months [95% CI] Patients with event n (%)	N	N	Median survival time in months [95% CI] Patients with event n (%)	
KEYNOTE 062		No suitable data for a quantitative or qualitative summary				

Side effects

Endpoint			Pembrolizumab + chemotherapy ^a	Placebo + chemotherapy ^a		Intervention vs control
		N	Median survival time in months [95% CI]	N N		Median survival time in months [95% CI]
			Patients with event n (%)			Patients with event n (%)
KEYNO	TE 062		No suitable data fo		antitative or qualitative	summany
KEYNO	TE 859			n a qu		summary
Total						
а	•		or cisplatin + capecitabir n + 5-FU or oxaliplatin +			
b	Pre-specifie	ed 3rd	data cut-off: 26.03.2019)		
с	Patients in	the ap	proximate sub-populati	on use	d	
d	Effect and CI: Cox proportional hazards model, unstratified; p value: own calculation based on 95% CI					
е	Pre-specifie	ed 1st	data cut-off: 03.10.2022			
f	Effect and CI: Cox proportional hazards model; stratified by region (Europe/ Israel/ North America/ Australia vs Asia vs rest of the world) and chemotherapy (FP vs CAPOX)					
Abbreviations used: AD = absolute difference; CTCAE = Common Terminology Criteria for Adverse Events; HR = hazard ratio; CI = confidence interval; N = number of patients evaluated; n = number of patients with (at least one) event; n.c. = not calculable; n.r. = not reached; vs = versus						

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

<u>Adults with locally advanced unresectable or metastatic HER2-negative gastric or gastro-oesophageal junction (GEJ) adenocarcinoma whose tumours express PD-L1 with a CPS \geq 1; <u>first-line therapy</u></u>

Approx. 285 – 2,613 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 Keytruda (active ingredient: pembrolizumab) at the following publicly accessible link (last access: 6 May 2024):

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

Treatment with pembrolizumab should only be initiated and monitored by specialists in internal medicine, haematology and oncology as well as specialists in internal medicine and gastroenterology and other specialists participating in the Oncology Agreement, all of whom are experienced in the treatment of patients with gastric or gastro-oesophageal junction carcinomas.

In accordance with the EMA requirements regarding additional risk minimisation measures, the pharmaceutical company must provide training material that contains information for medical professionals and patients. The training material contains, in particular, instructions on the management of immune-mediated side effects potentially occurring with pembrolizumab as well as on infusion-related reactions.

4. Treatment costs

Annual treatment costs:

Adults with locally advanced unresectable or metastatic HER2-negative gastric or gastrooesophageal junction (GEJ) adenocarcinoma whose tumours express PD-L1 with a CPS \geq 1; first-line therapy

Designation of the therapy	Annual treatment costs/ patient			
Medicinal product to be assessed:				
Pembrolizumab in combination with cisplatin	and 5-fluorouracil (5-FU)			
Pembrolizumab	€ 97,656.46			
Cisplatin	€ 11,370.90			
5-FU	€ 1,794.81			
Total	€ 110,822.17			
Additionally required SHI services	€ 1,642.91 - € 2,108.09			
Pembrolizumab in combination with oxaliplatin and capecitabine				
Pembrolizumab	€ 97,656.46			
Oxaliplatin	€ 8,301.02			
Capecitabine	€ 2,169.32			
Total	€ 108,126.79			
Appropriate comparator therapy:	Appropriate comparator therapy:			

Designation of the therapy	Annual treatment costs/ patient
Cisplatin in combination with capecitabine	
Cisplatin	€ 2,274.18
Capecitabine	€ 2,085.66
Total	€ 4,359.84
Additionally required SHI services	€ 328.58 - € 421.62
Oxaliplatin in combination with capecitabine	
Oxaliplatin	€ 8,301.02
Capecitabine	€ 2,085.66
Total	€ 10,386.68
Cisplatin in combination with S-1 (tegafur/ gi	meracil/ oteracil)
Cisplatin	€ 692.82
S-1 (tegafur/ gimeracil/ oteracil)	€ 6,993.74
Total	€ 7,686.56
Additionally required SHI services	€ 156.26 - € 209.73
Cisplatin in combination with 5-fluorouracil (5 (only for patients with adenocarcinoma of the	
Cisplatin	€ 2,274.18
5-FU	€ 1,794.81
Total	€ 4,068.99
Additionally required SHI services	€ 328.58 - € 421.62
Cisplatin in combination with 5-fluorouracil (5 (only for patients with adenocarcinoma of the	
Cisplatin	€ 2,274.18
5-FU	€ 1,794.81
Folinic acid	€ 4,862.43
Total	€ 8,931.42
Additionally required SHI services	€ 328.58 - € 421.62
Epirubicin in combination with cisplatin and c	apecitabine
Epirubicin	€ 4,960.74
Cisplatin	€ 1,773.93
Capecitabine	€ 2,281.13
Total	€ 9,015.80
Additionally required SHI services	€ 328.58 - € 421.62
Epirubicin in combination with cisplatin and 5	-fluorouracil (5-FU)
Epirubicin	€ 4,960.74
Cisplatin	€ 1,773.93

Designation of the therapy	Annual treatment costs/ patient			
5-FU	€ 4,358.10			
Total	€ 11,092.77			
Additionally required SHI services	€ 328.58 - € 421.62			
Epirubicin in combination with oxaliplatin and	l capecitabine			
Epirubicin	€ 4,960.74			
Oxaliplatin	€ 8,301.02			
Capecitabine	€ 2,281.13			
Total	€ 15,542.89			
Epirubicin in combination with oxaliplatin and	l 5-fluorouracil (5-FU)			
Epirubicin	€ 4,960.74			
Oxaliplatin	€ 8,301.02			
5-FU	€ 4,358.10			
Total	€ 17,619.86			
Docetaxel in combination with cisplatin and 5- (only for patients with adenocarcinoma of the				
Docetaxel	€ 8,523.22			
Cisplatin	€ 2,274.18			
5-FU	€ 1,794.81			
Total	€ 12,592.21			
Additionally required SHI services	€ 328.58 - € 421.62			
Nivolumab in combination with 5-fluorouracil (only for tumours with PD-L1 expression (CPS 2				
Nivolumab	€ 76,207.30			
5-FU	€ 1,820.74			
Folinic acid	€ 7,898.38			
Oxaliplatin	€ 9,827.96			
Total	€ 95,754.38			
Nivolumab in combination with 5-fluorouracil (only for tumours with PD-L1 expression (CPS 2	(5-FU) + folinic acid + oxaliplatin (mod. FOLFOX-6) ≥ 5))			
Nivolumab	€ 76,207.30			
5-FU	€ 1,160.67			
Folinic acid	€ 4,862.43			
Oxaliplatin	€ 9,827.96			
Total	€ 94,489.57			
Nivolumab in combination with capecitabine and oxaliplatin (only for tumours with PD-L1 expression (CPS \geq 5))				
Nivolumab	€ 76,207.30			

Designation of the therapy	Annual treatment costs/ patient
Capecitabine	€ 2,283.63
Oxaliplatin	€ 8,301.02
Total	€ 86,791.95

Costs after deduction of statutory rebates (LAUER-TAXE®) as last revised: 1 June 2024)

Other SHI services:

Designation of the therapy	Type of service	Costs/ unit	Number/ cycle	Number/ patient year	Costs/ patient year			
Medicinal product to be assessed								
Pembrolizumab	Surcharge for the preparation of a parenteral solution containing monoclonal antibodies	€ 100	1	17.4	€ 1,740			
Cisplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	5	87.0	€ 8,700			
5-FU	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	5	87.0	€ 8,700			
Oxaliplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740			
Appropriate com	parator therapy	•	•					
Cisplatin in comb	ination with capecitabine							
Cisplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740			
Oxaliplatin in cor	Oxaliplatin in combination with capecitabine							
Oxaliplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740			

			1		
Cisplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	6	€ 600
	mbination with 5-fluorouracil (5-Fi nts with adenocarcinoma of the o	-	;)		
Cisplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
5-FU	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	5	87.0	€ 8,700
•	mbination with 5-fluorouracil (5-Fi nts with adenocarcinoma of the o	• •			
Cisplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
5-FU	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	5	87.0	€ 8,700
Folinic acid	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
Epirubicin in c	ombination with cisplatin and cap	ecitabine	-		
Epirubicin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
Cisplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
Epirubicin in c	ombination with cisplatin and 5-fl	uorouracil	(5-FU)		
Epirubicin	Surcharge for production of a	€ 100	1	17.4	€ 1,740

	parenteral preparation containing cytostatic agents				
Cisplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
5-FU	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	365.0	€ 36,500
Epirubicin in co	ombination with oxaliplatin and co	apecitabin	2		
Epirubicin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
Oxaliplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
Epirubicin in co	pmbination with oxaliplatin and 5-	fluoroura	cil (5-FU)		
Epirubicin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
Oxaliplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
5-FU	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	365.0	€ 36,500
	ombination with cisplatin and 5-flonger onts with adenocarcinoma of the o				
Docetaxel	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740
Cisplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740

5-FU	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	5	87.0	€ 8,700
	mbination with 5-fluorouracil (5 s with PD-L1 expression (CPS ≥ 5		nic acid + oxi	aliplatin (FOLFO	YX-4)
Nivolumab	Surcharge for the preparation of a parenteral solution containing monoclonal antibodies	€ 100	1	26.1	€ 2,610
5-FU Bolus	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	2	52.2	€ 5,220
5-FU 22 h infusion	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	2	52.2	€ 5,220
Folinic acid	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	2	52.2	€ 5,220
Oxaliplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	26.1	€ 2,610
	, mbination with 5-fluorouracil (5 s with PD-L1 expression (CPS ≥ 5		nic acid + oxi	aliplatin (FOLFO	X-6)
Nivolumab	Surcharge for the preparation of a parenteral solution containing monoclonal antibodies	€ 100	1	26.1	€ 2,610
5-FU Bolus	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	26.1	€ 2,610
5-FU 22 h infusion	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	26.1	€ 2,610
Folinic acid	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	26.1	€ 2,610

Oxaliplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	26.1	€ 2,610	
Nivolumab in combination with capecitabine and oxaliplatin (only for tumours with PD-L1 expression (CPS \geq 5))						
Nivolumab	Surcharge for the preparation of a parenteral solution containing monoclonal antibodies	€ 100	1	17.4	€ 1,740	
Oxaliplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 100	1	17.4	€ 1,740	

5. Designation of 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 the assessed medicinal product

In the context of the designation of medicinal products with new active ingredients pursuant to Section 35a, paragraph 3, sentence 4 SGB V, the following findings are made:

Adults with locally advanced unresectable or metastatic HER2-negative gastric or gastrooesophageal junction (GEJ) adenocarcinoma whose tumours express PD-L1 with a CPS \geq 1; first-line therapy

 No medicinal product with new active ingredients that can be used in a combination therapy and fulfils the requirements of Section 35a, paragraph 3, sentence 4 SGB V.

The designation of combinations exclusively serves the implementation of the combination discount according to Section 130e SGB V between health insurance funds and pharmaceutical companies. The findings made neither restrict the scope of treatment required to fulfil the medical treatment mandate, nor do they make statements about expediency or economic feasibility.

III. The resolution will enter into force on the day of its publication on the website of the G-BA on 20 June 2024.

The justification to this resolution will be published on the website of the G-BA at <u>www.g-ba.de</u>.

Berlin, 20 June 2024

Federal Joint Committee (G-BA) in accordance with Section 91 SGB V The Chair

Prof. Hecken