

Resolution

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

Annex XII – Benefit Assessment of Medicinal Products with

Nivolumab

Resolution of: 20 October 2022 Entry into force on: 20 October 2022 Federal Gazette, BAnz AT DD. MM YYYY Bx

New therapeutic indication (according to the marketing authorisation of 1 April 2022):

Opdivo as monotherapy is indicated for the adjuvant treatment of adults with muscle invasive urothelial carcinoma (MIUC) with tumour cell PD-L1 expression \geq 1%, who are at high risk of ctivelAnn recurrence after undergoing radical resection of MIUC.

Therapeutic indication of the resolution (resolution of 20 October 2022):

- appropriate comparator 1. Additional benefit of the medicinal product in relation to the therapy
- Adults with muscle invasive urothelial carcinoma w a) th tumour cell PD-L1 expression ≥ 1%, who are at high risk of recurrence after undergoing complete resection and are eligible for cisplatin-containing therapy; adjuvant treatment

Appropriate comparator therapy:

- Cisplatin + gemcitabine

or

Cisplatin + methotrexate

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

0 Benefit is not proven. An additional

with muscle invasive urothelial carcinoma with tumour cell PD-L1 expression \geq b) who are at high risk of recurrence after undergoing complete resection and are unsuitable for cisplatin-containing therapy, or have already received neoadjuvant treatment; adjuvant treatment

Appropriate comparator therapy:

Monitoring wait-and-see approach

Extent and probability of the additional benefit of nivolumab compared to a monitoring wait-and-see approach:

Hint for a non-quantifiable additional benefit

Study results according to endpoints:¹

Adults with muscle invasive urothelial carcinoma with tumour cell PD-L1 expression \geq a) 1%, who are at high risk of recurrence after undergoing complete resection and are eligible for cisplatin-containing therapy; adjuvant treatment

No data are available to allow an assessment of the additional benefit.

ns net til Summary of results for relevant clinical endpoints **Endpoint category** Direction Summary of effect/ risk of bias Ø Mortality No data available. Ø Morbidity No data available. Health-related quality Ø No data available. of life Side effects Ø No data available. **Explanations:** ↑: statistically significant and relevant positive effect with low/unclear reliability of data ↓: 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

 \leftrightarrow : no statistically significant or relevant difference

 \varnothing : There are no usable data for the benefit assessment.

n.a.: not assessable

Adults with muscle invasive urothelial carcinoma with tumour cell PD-L1 expression ≥ b) who are at high risk of recurrence after undergoing complete resection and are unsuitable for cisplatin-containing therapy, or have already received neoadjuvant treatment: adjuvant treatment

Summary of results for relevant clinical endpoints

Ś.	Endpoint category	Direction of effect/ risk of bias	Summary
	Mortality	Ø	No data available.
	Morbidity	¢	Advantages in the endpoints recurrences (recurrence rate and disease-free survival) and health status.

¹ Data from the dossier assessment of the IQWiG (A22-53) and from the addendum (A22-97), unless otherwise indicated.

Endpoint category	Direction of effect/ risk of bias	Summary
Health-related quality of life	\leftrightarrow	No relevant differences for the benefit assessment.
Side effects	\downarrow	Disadvantage in the endpoint of therapy discontinuation due to AE. In detail, advantages and disadvantages in case of specific adverse events.

- 1st data cut-off: August 2020 morbidity (except recurrence rate and disease-free survival), health-related quality of life, side effects)
- 2nd data cut-off: February 2021 (recurrence rate, disease-free survival)
 Mortality

	Endpoint		Nivolumab		placebo	Nivolumab vs placebo	
Ś.		Ν	Median survival time in months [95% CI] Patients with event n (%)	Ν	Median survival time in months [95% CI] Patients with event n (%)	HR [95% CI] p value Absolute difference (AD) ^a	
	No data available.						

Morbidity

Endpoint		Nivolumab		placebo	Nivolumab vs placebo		
	N	Median survival time in months [95% CI]	N	Median survival time in months [95% CI]	HR [95% CI] p value ^b Absolute		
		Patients with event n (%)		Patients with event n (%)	difference (AD) ^a		
Recurrences					15. 10'		
Recurrence rate ^{c,}	140	– 56 (40.0)	142	- 85 (59.9)	RR: 0.67 .[0.52; 0.85] ^e < 0.001 ^f		
Distant recurrence	140	- 41 (29.3)	142	- 54 (38:0) S	<u>-</u>		
Local recurrence outside the efferent urinary tract	140	– 7 (5.0)	142	20 (D4.1)	-		
Local recurrence within the efferent urinary tract, invasive	140	- 1 (0.7)	0 ⁴²	arr – 3 (2.1)	-		
Local recurrence within the efferent urinary tract, non- invasive	140	1 (0.7) 2 (1.4) 0 (142	_ 2 (1.4)	-		
Death of any cause (without previous recurrence)	140 9 9	5 (3.6)	142	– 6 (4.2)	-		
Disease-free survival (DFS) ^c	140	n.a. [22.10; n.c.] 56 (40.0)	142	8.41 [5.59; 20.04] 85 (59.9)	0.53 [0.38; 0.75]; < 0.001		
Symptomatology (EORTC QLQ-C30) ^g – Time to first deterioration							
Fatigue	123	4.90 [2.04; 7.39] 77 (62.6)	128	3.78 [2.50; 5.19] 80 (62.5)	0.99 [0.72; 1.36] 0.745		
Nausea and vomiting	123	n.a. [15.41; n.c.] 44 (35.8)	128	n.a. 35 (27.3)	1.35 [0.86; 2.11] 0.178		
Pain	123	9.69 [5.16; 13.01] 67 (54.5)	128	4.76 [3.25; 7.16] 81 (63.3)	0.75 [0.54; 1.04] 0.079		
Dyspnoea	123	15.93 [8.90; n.c.] 51 (41.5)	127	n.a. [12.94; n.c.] 43 (33.9)	1.20 [0.80; 1.80] 0.400		

Endpoint		Nivolumab		placebo	Nivolumab vs placebo	
	N	Median survival time in months [95% Cl]	N	Median survival time in months [95% CI]	HR [95% CI] p value ^b Absolute	
		Patients with event n (%)		Patients with event n (%)	difference (AD) ^a	
Insomnia	123	n.a. [8.87; n.c.] 48 (39.0)	128	11.04 [5.49; n.c.] 62 (48.4)	0.72 [0.49; 1.06]	
Appetite loss	122	15.90 [9.23; n.c.] 51 (41.8)	128	n.a. [11.73; n.c.] 47 (36.7)	1.21 [0.81; 1.81] @614	
Constipation	122	n.a. [n.a.; n.c.] 37 (30.3)	127	n.a. 42 (33,1)	0.749 0.749	
Diarrhoea	122	n.a. [13.83; n.c.] 40 (32.8)	127	41 (32 3)	0.94 [0.60; 1.45] 0.739	
Health status (EQ	5D VA	S) ^h – Time to first deter	ioratio	in co cult		
	126	18.37 [11.14; n.c.] 59 (46.8)	129	9.00 [5.88; 17.77] 71 (55.0)	0.64 [0.45; 0.91] 0.036 AD = 9.37 months	
ealth-related qua	lity of	life dur	e	·	·	

Health-related quality of life

	Endpoint		Nivolumab		placebo	Nivolumab vs placebo
			Median survival time in months [95% CI]	Ν	Median survival time in months [95% CI]	HR [95% CI] p value Absolute
			Patients with event n (%)		Patients with event n (%)	difference (AD) ^a
	EORTC QLQ-C30 ^g -	Time t	o first deterioration			
	Global health status	123	9.95 [6.93; n.c.] 57 (46.3)	127	10.51 [5.59; n.c.] 64 (50.4)	0.95 [0.66; 1.36] 0.529
	Physical functioning	123	16.43 [8.84; n.c.] 48 (39.0)	128	n.a. [9.20; n.c.] 54 (42.2)	0.84 [0.57; 1.24] 0.387
Ś.	Role functioning	123	8.31 [4.63; 12.75] 68 (55.3)	128	5.55 [4.04; n.c.] 68 (53.1)	0.95 [0.67; 1.34] 0.663
	Emotional functioning	123	n.a. [15.24; n.c.] 45 (36.6)	127	13.14 [7.16; n.c.] 53 (41.7)	0.80 [0.53; 1.19] 0.258
	Cognitive functioning	123	7.66 [4.67; 15.77] 64 (52.0)	127	8.61 [4.86; n.c.] 64 (50.4)	1.01 [0.71; 1.43] 0.946

Endpoint	Nivolumab			placebo	Nivolumab vs placebo
	N	Median survival time in months [95% CI] Patients with event n (%)	N	Median survival time in months [95% CI] Patients with event n (%)	HR [95% CI] p value Absolute difference (AD) ^a
Social functioning	122	14.06 [6.47; n.c.] 55 (45.1)	126	n.a. [7.56; n.c.] 52 (41.3)	1.06 [0.73; 1.56] 0.621

Side effects Endpoint Nivolumab placebo Nivolumab vs placebo HR [95% CI] Ν Median Ν Median in months in months p value [95% CI] [95% CI] Patients with event n Patients with event n (%) (%) Total adverse events (presented additionally)^{i,j} 139 _ 0.59 [0.49; 0.85] 0.49 [0.33; 0.49] 137 (98 133 (95.7) Serious adverse events (SAEs)^{i,j} 139 139 0.84 [0.58; 1.23] n.a. [8.77; n.c.] 0.380 56 (40.3) Severe adverse events (CTCAE grade ≥ 3)^{i,j} 0.84 [0.58; 1.23]; 1.28 [0.91; 1.81] 139 n.a. [8.41; n.c.] 0.380 0.154 59 (42.4) continuations due to adverse events^{ij} Therap 139 139 1.94 [1.02; 3.70] n.a. n.a. 0.039 28 (20.1) 14 (10.1) Immune-mediated adverse events Immune-139 139 1.68 [0.95; 2.33] 4.53 [2.73; 8.05] mediated AEs 108 (77.7) 80 (57.6) (presented additionally)^{i,l} Immune-139 139 2.64 [1.04; 6.72] n.a. n.a. mediated SAEs ^{i,l} 0.034 17 (12.2) 6 (4.3) Immune-139 139 2.89 [1.36; 6.14] n.a. n.a. 0.004 mediated severe 27 (19.4) 9 (6.5)

Endpoint	Nivolumab			placebo	Nivolumab vs placebo	
	Ν	Median in months [95% CI]	N	Median in months [95% CI]	HR [95% Cl] p value	
		Patients with event n (%)		Patients with event n (%)		
AEs (CTCAE grade ≥ 3) ^{i,I}					s. et	
Specific adverse ev	ents ⁱ				10 DN	
Skin and subcutaneous tissue disorders (SOC, AE)	139	5.36 [2.79; 10.48] 76 (54.7)	139	n.a. 45 (32.4)	1.89 (0.30; 2.74] 0.001	
Asthenia (PT, AE)	139	n.a. 18 (12.9)	139	n a. 5 (3.6) 715	3.70 [1.37; 9.97] 0.006	
Infections and infestations (SOC, SAE)	139	n.a. 14 (10.1)	139	27 (19.4)	0.48 [0.25; 0.92] 0.024	
Respiratory, thoracic and mediastinal disorders (SOC, SAE)	139	18 (12.9) n.a. 14 (10.1) n.a. 9 (6.5) (6.5)	(1 39	n.a. 1 (0.7)	8.38 [1.06; 66.20] 0.016	
Gastrointestinal disorders (SOC, severe AEs)	139	F.a. 8 (5 (8)	139	n.a. 17 (12.2)	0.44 [0.19; 1.01] 0.047	
Lipase elevated (PT, severe AE)	139	n.a. 11 (7.9)	139	n.a. 1 (0.7)	10.50 [1.35; 81.42] 0.005	

^c Data cut-off from February 2021

^d Percentage of patients, individual components are shown in the rows below (in each case only with the qualitying events that come into play in the formation of the combined endpoint; calculation of effect estimators therefore not meaningful)

^e Cochran-Mantel-Haenszel method stratified by pathological lymph node status and use of cisplatin as neoadjuvant chemotherapy

IQMIG calculation (unconditional exact test (CSZ method according to Martín Andrés A, Silva Mato A.

Choosing the optimal unconditioned test for comparing two independent proportions. Computat Stat Data Anal 1994;

17(5): 555-574.)

^g Time to first deterioration. An increase in the score by ≥ 10 points compared to the start of the study is considered a clinically relevant deterioration (scale range 0 to 100).

^h Time to first deterioration. A decrease in the score by \geq 15 points compared to the start of the study is considered a clinically relevant deterioration (scale range 0 to 100).

Data cut-off from August 2020

Progression events of the underlying disease are not included (multiple PTs of SOC "Benign, malignant and unspecified neoplasms [including cysts and polyps]" according to the list of the pharmaceutical company).

Endpoint		Nivolumab		placebo	Nivolumab vs placebo	
	N	Median in months [95% CI]	N	Median in months [95% CI]	HR [95% Cl] p value	
		Patients with event n (%)		Patients with event n (%)		

In each case, the operationalisation of a specific MedDRA PT-collection presented by the pharmaceutical company ("select AE") is used.

Abbreviations used:

AD = absolute difference; CTCAE = Common Terminology Criteria for Adverse Events; DFS o disease-free survival; EORTC = European Organisation for Research and Treatment of Cancer; HR = hazard ratio; CI = confidence interval; MedDRA = Medical Dictionary for Regulatory Activities; N = number of patients evaluated; n = number of patients with (at least one) event; n.c. = not calculable; n.a. = not achieved; PT = preferred term; PC = pharmaceutical company; RR = relative risk; SOC = system organ class; SAE: serious adverse event; AE: adverse event; VAS = visual analogue scale; vs = versus

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

a) <u>Adults with muscle invasive urothelial carcinoma with tumour cell PD-L1 expression ≥</u> 1%, who are at high risk of recurrence after undergoing complete resection and are eligible for cisplatin-containing therapy; adjuvant treatment

approx. 350 – 460 patients

b) Adults with muscle invasive urothelial carcinoma with tumour cell PD-L1 expression ≥ 1%, who are at high risk of recurrence after undergoing complete resection and are unsuitable for cisplatin-containing therapy, or have already received neoadjuvant treatment; adjuvant treatment

approx. 680 – 830 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 Opdivo (active ingredient: nivolumab) at the following publicly accessible link (last access: 29 September 2022):

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

Therapy with nivolumab should only be initiated and monitored by specialists in internal medicine, haematology, and oncology, who are experienced in the treatment of patients with urothelial carcinoma as well as specialists in urology, and other specialists participating in the Oncology Agreement.

In accordance with the Medicines Agency requirements regarding additional risk minimisation measures, the pharmaceutical company must provide healthcare professionals and patients with a patient card. The patient card contains, in particular, instructions on the management of immune-mediated side effects potentially occurring with nivolumab as well as on infusionrelated reactions. The prescribing doctors must discuss the risks of therapy with nivolumab with the patients.

4. Treatment costs

The annual treatment costs shown refer to the first year of treatment.

esolutions. mex XII. Annual treatment costs: Designation of the therapy Annual treatment costs/ patient Medicinal product to be assessed: € 75,925.72 - € 76,217,74 Nivolumab Appropriate comparator therapy: Adults with muscle invasive urothelial carcinoma with tumour cell PD-L1 expression ≥ 1%, who a) are at high risk of recurrence after undergoing complete resection and are eligible for cisplatincontaining therapy; adjuvant treatment Cisplatin in combination with gemcitabine € 1,506.05 Cisplatin Gemcitabine € 7.014.54 Total: € 8,520.59 Additionally required SHt costs € 242.72 - € 311.31 Cisplatin in combination with methotrexate Cisplatin € 347.55 € 532.56 Methotrex € 880.11 Total Additionall required SHI costs € 9.56 – € 44.51 Adults with muscle invasive urothelial carcinoma with tumour cell PD-L1 expression \geq 1%, who b) are at high risk of recurrence after undergoing complete resection and are unsuitable for cisplatin-containing therapy, or have already received neoadjuvant treatment; adjuvant treatment incalculable Monitoring wait-and-see approach

Costs after deduction of statutory rebates (Lauer-Taxe as last revised: 1 October 2022)

Other SHI services:

Designation of the therapy	Type of service	Costs/ unit	Number/ cycle	Number/ patient/ year	Costs/ patient/ year
Nivolumab (cycle every 14 days)	Preparation for parenteral solution containing monoclonal antibodies	€71	1	26.1	€ 1,853.10 1,853.10 1,853.10 1,853.10
Nivolumab (cycle every 28 days)	Preparation for parenteral solution containing monoclonal antibodies	€71	1	13 olut alleotrection	€923.00
Cisplatin (in combination with gemcitabine)	Surcharge for production of a parenteral preparation containing cytostatic agents	€ 81	1 500 I	Call	€ 1,853.10
Cisplatin (in combination with methotrexate)	Surcharge for production of a parenteral preparation containing cytostatic agents	€81/C P	1	3	€ 243.00
Gemcitabine	parentera preparation containing votostatic agents	€81	3	39	€ 3,159.00
Methodrexate Nethodrexate	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	2	6	€486.00

- II. Entry into force
 - 1. The resolution will enter into force on the day of its publication on the website of the G-BA on 20 October 2022.
 - 2. The period of validity of the resolution is limited in accordance with the following regulations:

The statements made for the patient group

b) adults with muscle invasive urothelial carcinoma with tumour cell PD-L4 expression ≥ 1%, who are at high risk of recurrence after undergoing complete resection and are unsuitable for cisplatin-containing therapy, or have already received neoadjuvant treatment; adjuvant treatment in numbers 1, 2, 3 and 4 are limited until 15 December 2025. The justification to this resolution will be published on the website of the 6-BA at www.g-ba.de. Berlin, 20 October 2022 expression ≥ 1%, who are at high risk of recurrence after undergoing complete

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

please note the current version Prof. Hecken