Resolution



of the Federal Joint Committee (G-BA) on an Amendment of the Pharmaceuticals Directive (AM-RL):

Annex XII – Benefit Assessment of Medicinal Products with New Active Ingredients According

Atezolizumab (New Therapeutic Indication NSCLC, Non-Squamous Eiret I NSCLC, Non-Squamous, First Line, Combination with Nab-Paclitaxel and Carboplatin) of 2 April 2020

Atezolizumab

Resolution of: 2 April 2020 Entry into force on: 2 April 2020

Federal Gazette, BAnz AT DD MM YYYY Bx

New therapeutic indication (according to the marketing authorisation of 3 September 2019):

Tecentriq, in combination with nab-paclitaxel and carboplatin, is indicated for the first line treatment of adult patients with metastatic non-squamous NSCLC who do not have EGFR mutant or ALK-positive NSCLC.

- 1. Additional benefit of the medicinal product in relation to the appropriate comparator therapy
- a) Adult patients with metastatic non-squamous non-small cell tung cancer and a Tumour Proportion Score [TPS] of ≥ 50% (PD-L1 expression) and without EGFR- or ALK-positive tumour mutations; first-line therapy

Appropriate comparator therapy:

Pembrolizumab as monotherapy

Extent and probability of the additional benefit of atezolizumab + carboplatin + nab-paclitaxel compared with the appropriate comparator therapy:

An additional benefit is not proven

b) Adult patients with metastatic non-squamous non-small cell lung cancer and a Tumour Proportion Score [TPS] of < 30% (PD-L1 expression) and without EGFR- or ALK-positive tumour mutations; first-line therapy

Appropriate comparator therapy:

- Cisplatin in combination with a third-generation cytostatic agent (vinorelbine or gemcitabine or docetaxel or paclitaxel or pemetrexed)
- Carboplatin in combination with a third-generation cytostatic agent (vinorelbine or generation or docetaxel or paclitaxel or pemetrexed) of Annex VI to Section K of the Pharmaceuticals Directive
- Carboplatin in combination with nab-paclitaxel

or

or

Pembrolizumab in combination with pemetrexed and platinum chemotherapy

Extent and probability of the additional benefit of atezolizumab + carboplatin + nab-paclitaxel compared with carboplatin + nab-paclitaxel:

An additional benefit is not proven.

Study results according to endpoints1:

a) Adult patients with metastatic non-squamous non-small cell lung cancer and a Tumour Proportion Score [TPS] of ≥ 50% (PD-L1 expression) and without EGFR- or ALK-positive tumour mutations; first-line therapy

There is no data that would allow for the assessment of the additional benefit.

Summary of results for relevant clinical endpoints

Endpoint category	Direction of effect/	Summary
	Risk of bias	
Mortality	Ø	There are no usable data for the benefit assessment.
Morbidity	Ø	There are no usable data for the benefit assessment.
Health-related quality of life	Ø	There are no usable data for the benefit assessment.
Side effects	Ø	There are no usable data for the benefit assessment.

Explanations:

- ↑: positive statistically significant and relevant effect with low/unclear reliability of data
- ↓: negative statistically significant and relevant effect with low/unclear reliability of data
- ↑↑: positive statistically significant and relevant effect with high reliability of data
- ↓↓: negative statistically significant and relevant effect with high reliability of data
- ↔: no statistically significant or relevant difference
- Ø: There are no usable data for the benefit assessment
- n.a.: not assessable

b) Adult patients with metastatic non squamous non-small cell lung cancer and a Tumour Proportion Score [TPS] of < 50% (PD-L1 expression) and without EGFR- or ALK-positive tumour mutations; first-line therapy

Study IMpower130: Atezolizumab + nab-paclitaxel + carboplatin vs nab-paclitaxel + carboplatin

Relevant sub-populations:

NEoM population (patients with an approximate PD-L1 expression [TPS] < 50% without EGFR-or ALK-positive tumour mutations)

For side effects endpoints: Wild type population (patients without EGFR or ALK positive tumour mutations, including < 20% patients with PD-L1 expression ≥ 50%)

¹ Data from the dossier evaluation of the IQWiG (A19-84) unless otherwise indicated.

Mortality (data cut-off of 4 September 2018)

Endpoint	Atezolizumab + nab- paclitaxel + carboplatin			Nab-paclitaxel + carboplatin	Intervention vs Control	
	N	Median survival time in months [95% CI] Patients with event n (%)		Median survival time in months [95% CI] Patients with event n (%)	Hazard Ratio [95% CI] p value Absolute difference (AD)a	
Overall survival	Overall survival					
	368	18.2 [14.7; 21.1]	186	13.1 [10.4; 17.7]	0,83 [0,66; 1,03]	
		222 (60.3)		123 (66.1)	0,096	

Morbidity (data cut-off of 15 March 2018)

				10	
Endpoint		zolizumab + nab- taxel + carboplatin		Nab-paclitaxel + carboplatin	Intervention vs Control
	N	Median time to event in months [95% CI]	N	Median time to event in months [95% CI]	Hazard Ratio [95% CI] p value
		Patients with event n (%)		Patients with event n (%)	Absolute difference (AD) ^a
Progression-free s	urviva	I (PFS)b	2,0	W.	
	368	7.1 [6.4:82]	186	6.5 [5.5;7.9]	0.79 [0.64; 0.96] 0.0204 AD = 0.6 months
EORTC QLQ-C30 s	sympto	om scales (time unti	l 1st d	leterioration) ^c	
Loss of appetite	368	4.2 [3.0; 7.2] 163 (44.3)	186	7.7 [5.0; 12.1] 69 (37.1)	1.18 [0.89; 1.57] 0.246
Diarrhoea Dysphoea	-368	5.7 [3.5; 26.5] 143 (38.9)	186	7.3 [2.8; 11.0] 72 (38.7)	0.86 [0.65; 1.15] 0.317
Dysphoea	368	4.0 [2.8; 7.2] 162 (44.0)	186	6.1 [2.9; 11.3] <i>72 (38.7)</i>	1.07 [0.81; 1.41] 0.653
200	368	1.7	186	1.7	0.99
Katigue	300	1.7 [1.4; 2.2] 218 (59.2)	100	1.7 [1.4; 2.2] 110 (59.1)	0.99 [0.78; 1.25] 0.914

Endpoint		zolizumab + nab- taxel + carboplatin		Nab-paclitaxel + carboplatin	Intervention vs Control
	N	Median time to event in months [95% CI] Patients with event n (%)	N	Median time to event in months [95% CI] Patients with event n (%)	Hazard Ratio [95% CI] p value Absolute difference (AD)a
Insomnia	368	12.7 [5.8; n.c.] 130 (35.3)	186	8.5 [3.5; n.c.] 63 (33.9)	0.90 [0.66; 1.22] 0.481
Pain	368	6.0 [4.4; 8.4] 167 (45.4)	186	6.0 [3.6; 11.4] 72 (38.7)	0.97 [0.73; 1.28] 0.822
Nausea and vomiting	368	3.1 [2.5; 6.8] 170 (46.2)	186	3.9 [2.5; 6.9] 80 (43.0)	0.95 [0.73; 1.25] 0.733
Constipation	368	3.7 [2.4; 5.8] 169 (45.9)	186 (4.1 7) [2.4: 19.1] 78 (41.9)		1.00 [0.76; 1.31] 0.982
EORTC QLQ-LC13	symp	tom scales (time un	til 1st	deterioration) ^c	
Alopecia	368	1.0 [0.9; 1.1] 250 (6 7.9)	186	0.9 [0.8; 1.0] 125 (67.2)	0.85 [0.68; 1.07] 0.160
Haemoptysis	368	(1.a. (35 (9.5)	186	n.a. 19 (10.2)	0.79 [0.45; 1.38] 0.399
Dyspnoea	368	2.4 [2.1; 3.2] 189 (51.4)	186	2.1 [1.5; 3.1] 96 (51.6)	0.84 [0.66; 1.09] 0.187
Coughing Mouth pain	368	15.3 [10.0; n.c.] 123 (33.4)	186	23.5 [15.3; n.c.] <i>48 (</i> 25.8)	1.20 [0.85; 1.69] 0.294
Mouth pain	368	12.8 [8.2; 19.1] <i>127 (34.5)</i>	186	n.a. [9.9; n.c.] <i>49 (26.3)</i>	1.22 [0.87; 1.70] 0.242
Peripheral neuropathy	368	3.5 [3.0; 4.0] 181 (49.2)	186	2.8 [2.4; 3.4] 91 (48.9)	0.82 [0.64; 1.06] 0.129
Dysphagia	368	23.0 [15.4; n.c.] <i>96 (26.1)</i>	186	n.a. <i>34 (18.3)</i>	1.32 [0.89; 1.95] 0.168

Pain (arm/shoulder)	368	8.4 [6.9; 12.9] 133 (36.1)	186	9.7 [6.9; 24.4] <i>56 (30.1)</i>	1.02 [0.74; 1.39] 0.925
Pain (thorax)	368	19.1 [9.3; n.c.] 118 (32.1)	186	15.2 [6.7; n.c.] <i>53 (28.5)</i>	0.99 [0.71; 1.37] 0.943
Pain (other)	368	7.2 [5.5; 11.1] 139 (37.8)	186	6.9 [3.4; 12.3] <i>71 (38.2)</i>	0.84 [0.63; 1.12] 0.227
Health EQ-5D VAS (time until 1st deterioration) ^{d,e}					
≥ 10 points	368	3.2 [2.6; 4.4]	186	2.6 [2.1; 5.4]	0.95 [0.72; 1.24] 0.683
		172 (46.7)		80 (43.0)	0.083

Health-related quality of life (data cut-off of 15 March 2018)

		Median time to event in months [95% CI] Patients with event n (%)	N	Median time to event in months [95% CI] Patients with event n (%)	Hazard Ratio [95% CI] p value Absolute difference (AD)a
EORTC QLQ-C30 f	unction	nal scales (time unti)1st d	eterioration) ^e	1
Global health status	368	2.6 [2.2; 3.3]	186	3.3 [2.2; 5.9]	1.17 [0.90; 1.52];
		196 (53.3)		83 (44.6)	0.233
Emotional function	368	17.3 [8.2)21.5]	186	n.a. [11.0; n.c.]	1.24 [0.88; 1.75];
	20	126 (34.2)		45 (24.2)	0.215
Cognitive function	368	4.2 [3.3; 6.9]	186	3.9 [2.8; 5.9]	0.91 [0.70; 1.18];
255	·VIII	171 (46.5)		85 (45.7)	0.478
Physical function	368	2.8 [2.2; 4.2]	186	2.6 [2.1; 5.8]	0.93 [0.72; 1.21];
So, Yo		178 (48.4)		87 (46.8)	0.601
Role function	368	2.4 [2.2; 3.1]	186	2.1 [1.5; 2.6]	0.89 [0.70; 1.14];
60		196 (53.3)		97 (52.2)	0.360
Social function	368	2.1 [1.6; 2.4]	186	1.7 [1.4; 2.4]	0.90 [0.70; 1.14];
		209 (56.8)		104 (55.9)	0.373

Side effects^f (data cut-off of 15 March 2018, induction and maintenance phase)

Endpoint Atezolizumab + nab- paclitaxel + carboplatin		N	ab-paclitaxel + carboplatin	Intervention vs Control		
	N	Median time to event in months [95% CI]	N	Median time to event in months [95% CI]	Hazard Ratio [95% CI] p value	
		Patients with event n (%)		Patients with event n (%)	Absolute difference (AD)	
Adverse events (p	resente	d additionally)			-	
	447	no data available 445 (99.6)	223	no data available 221 (99.1)	ans. net	
Serious adverse e	vents (S	AE)			Jill Arr	
		N	o usabl	e evaluations	11/0/	
Severe adverse ev	ents (C	ΓCAE grade 3 or 4)		2/6/	SC.	
	447	no data available 380 (85.0)	223	no data available 166 (74.4)	1.24 [1.03; 1.49] 0.026	
Therapy discontin	nuation because of adverse events					
	447	no data available 120 (26.8)	223	no data available 50 (22.4)	1.01 [0.72; 1.40] 0.968	
Immune mediated	AE & Q					
		Rykulos	o usabl	e evaluations		
Immune mediated	SAE	,0° 0'				
		18,01 N	o usabl	e evaluations		
Immune mediated	severe	AE (CTCAE grade 3-	-4)			
	SS	X N	o usabl	e evaluations		
Other specific AE	(severe	AE with CTCAE grad	de 3-4)			
Blood and lymphat	tic system	m disorders (SOC)				
JOH HO	447	no data available	223	no data available	1.27	
Blood and lymphat		256 (57.3)		105 (47.1)	[1.01; 1.60] 0.038	
Investigations (SC	C)		•			
Nego-	447	no data available 102 (22.8)	223	no data available 34 (15.2)	1.50 [1.01; 2.21] 0.042	
	•					
Syncope (PT)						

Dyspnoea (PT)					
	447	no data available	223	no data available	7.89
		20 (4.5)		1 (0.4)	[1.05; 59.01] 0.017

- a Absolute difference (AD) given only in the case of a statistically significant difference; own calculation
- b Information from the dossier (Module 4, p. 121, NEoM population, evaluation by independent review committee)
- ^c Defined as an increase of the score by ≥ 10 points compared with baseline
- d Information from dossier evaluation of the IQWiG (A19-84) Annex D
- e Defined as a decrease of the score by ≥ 10 points compared with baseline
- Wild type population; survey in accordance with protocol without recording events related to the underlying disease

Abbreviations used: CTCAE: Common Terminology Criteria for Adverse Events; HR EORTC: European Organisation for Research and Treatment of Cancer; CI: confidence interval; n: number of patients with (at least 1) event; N: number of patients evaluated; n.c; not calculable; n.a.: not achieved; PT: preferred term; QLQ-C30: Quality of Life Questionnaire – Cancer 30, QLQ-LC13: Quality of Life Questionnaire – Lung Cancer 13; RCT: randomised controlled study; SQC: system organ class; SAE: serious adverse event; AE: adverse event

S	Summary of results for relevant clinical endpoints			
	Endpoint category	Direction of effect/	Summary	
		Risk of bias		
	Mortality	↔ <u>,</u> , ⊗ <	no statistically significant or relevant difference	
	Morbidity	Egn the	no statistically significant or relevant difference	
	Health-related quality of life	t bi ou	no statistically significant or relevant difference	
	Side effects	renters	statistically significant disadvantages for severe AE (CTCAE grade 3–4)	

Explanations:

- 1: positive statistically significant and relevant effect with low/unclear reliability of data
- J: negative statistically significant and relevant effect with low/unclear reliability of data
- ↑↑: positive statistically significant and relevant effect with high reliability of data
- ↓ : negative statistically significant and relevant effect with high reliability of data
- →: no statistically significant or relevant difference
- Ø: There are no usable data for the benefit assessment
- n.a.: not assessable

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

a) Adult patients with metastatic non-squamous non-small cell lung cancer and a Tumour Proportion Score [TPS] of ≥ 50% (PD-L1 expression) and without EGFR- or ALK-positive tumour mutations; first-line therapy

approx. 2,320 to 2,640 patients

b) Adult patients with metastatic non-squamous non-small cell lung cancer and a Tumour Proportion Score [TPS] of < 50% (PD-L1 expression) and without EGFR- or ALK-positive tumour mutations; first-line therapy

approx. 5,700 to 6,480 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 Tecentriq® (active ingredient, atezolizumab) at the following publicly accessible link (last access: 11 February 2020):

https://www.ema.europa.eu/en/documents/product-information/tecentriq-epar-product-information de.pdf

Treatment with atezolizumab may only be initiated and monitored by specialists in internal medicine, haematology, and oncology, specialists in internal medicine and pneumology, specialists in pulmonary medicine, and specialists participating in the Oncology Agreement who are experienced in the treatment of patients with non-small cell lung cancer.

According to the requirements for risk minimisation activities in the EPAR (European Public Assessment Report), the pharmaceutical company must provide the following information material on atezolizumab:

- Training material for health professionals
- Patient pass

The training material includes, in particular, instructions on how to deal with the immune mediated side effects potentially occurring under atezolizumab treatment as well as infusion-related reactions.

4. Treatment costs

Annual treatment costs:

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

a) Adult patients with metastatic non-squamous non-small cell lung cancer and a Tumour Proportion Score [TPS] of ≥ 50% (PD-L1 expression) and without EGFR- or ALK-positive tumour mutations; first-line therapy

Designation of the therapy	Annual treatment costs/patient				
Medicinal product to be assessed:					
Induction therapy					
Atezolizumab	€ 17,702.36 - 26,553.54				
Carboplatin	€2,003.88 - 3,005.82				
Nab-paclitaxel	€ 8,985.84 – 13,478.76				
Maintenance treatment					
Atezolizumab	€ 50,451.73 – 59,302.91				
Total:	€87,994.99 – 93,489.85				
Appropriate comparator therapy:					
Pembrolizumab	€101,243.99				

Costs after deduction of statutory rebates (LAUER-TAXE®) as last revised: 15 March 2020

Other services covered by SHI funds:

				- 6	
Designation of the therapy	Type of service	Costs/ unit	Number/ cycle	Number/ patient/ year	Costs/ patient/ year
Medicinal product to	be assessed:				
Atezolizumab	Surcharge for the preparation of a parenteral solution containing monoclonal antibodies Surcharge for production of a	€71,0° 10° Pro 11° Pro	1	17.4	€1,235.40
Carboplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	4–6	€324 – 486
Carboplatin Nab-paclifaxel	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	3	12–18	€972 – 1,458
Appropriate comparator therapy:					
Pembrolizumab	Surcharge for the preparation of a parenteral solution containing monoclonal antibodies	€71	1	17.4	€1,235.40

b) Adult patients with metastatic non-squamous non-small cell lung cancer and a Tumour Proportion Score [TPS] of < 50% (PD-L1 expression) and without EGFR- or ALK-positive tumour mutations; first-line therapy

Designation of the therapy	Annual treatment costs/patient
Medicinal product to be assessed:	
Induction therapy	
Atezolizumab	€ 17,702.36 – 26,553.54
Carboplatin	€2,003.88 – 3,005.82
Nab-paclitaxel	€8,985.84 – 13,478 76
Maintenance treatment	colline!
Atezolizumab	€ 50,451.73 → 59,302.91
Total:	€ 87,994.99 – 93,489.85
Appropriate comparator therapy:	
Cisplatin in combination with a third-gen paclitaxel or pemetrexed or vinorelbine)	
Cisplatin plus docetaxel	© 2,007.44
Cisplatin	€2,007.44
Docetaxel	€21,230.61
Total	€23,238.05
Additionally required SHI service	€ 328.58 – 421.62
Cisplatin plus gemcitabine	O'
Cisplatin	€2,007.44 - 2,486.11
Cisplatin plus gemcitabine Cisplatin Gemcitabine Total	€8,193.66
10101	€10,201.10 - 10,679.77
Additionally required SHI service	€ 328.58 - 421.62
Cisplatin plus paclitaxel	
Cisplatin	€2,271.74
Paolitaxel	€20,749.85
Total	€23,021.59
Additionally required SHI service	€ 559.12 - 652.16
Cisplatin plus pemetrexed	
Cisplatin	€2,007.44
Pemetrexed	€ 68,656.57
Total	€70,664.01
Additionally required SHI service	€ 454.67 - 594.50
Cisplatin plus vinorelbine	
Cisplatin	€2,007.44 - 2,486.11

Designation of the therapy	Annual treatment costs/patient					
Vinorelbine	€ 4,716.97 - 5,686.32					
Total	€6,724.41 - 8,172.43					
Additionally required SHI service	€ 328.58 – 421.62					
Carboplatin plus docetaxel						
Carboplatin	€8,716.88					
Docetaxel	€21,230.61					
Total	€29,947.49					
Carboplatin plus gemcitabine	s set					
Carboplatin	€8,716.88 kiO kil					
Gemcitabine	€ 29,947.49 € 8,716.88 € 8,193.66 € 16,91057					
Total	€16,91054					
Carboplatin plus paclitaxel	ral oile					
Carboplatin	€8,716.88					
Paclitaxel	5 € 20,749.85					
Total	29,466.73					
Additionally required SHI service	€230.54 €8,716.88					
Carboplatin plus pemetrexed	COMPANY					
Carboplatin						
Pemetrexed	€ 68,656.57					
Total	€77,373.45					
Additionally required SHI service	€ 126.09 – 172.88					
Carboplatin plus vinorelbine						
Carboplatin	€8,716.88					
Vinorelbine	€ 4,716.97 - 5,686.32					
Total 25 cull	€ 13,433.85 - 14,403.20					
Carboplatin in combination with nab-pa	clitaxel					
Carboplatin	€8,716.88					
Nab-pacitaxel	€39,088.40					
Total	€47,805.28					

Other services covered by SHI funds:

Designation of the therapy	Type of service	Costs/ unit	Number / cycle	Number/ patient/ year	Costs/ patient/ year
Medicinal produc	ct to be assessed:				
Atezolizumab	Surcharge for the preparation of a parenteral solution containing monoclonal antibodies	€71	1	17.4	€1,235.40
Carboplatin	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	4-6 eral (es	J€324-486
Nab-paclitaxel	Surcharge for production of a parenteral preparation containing cytostatic agents	€81 €81	inace)	12–18	€972 – 1,458
Appropriate com	parator therapy:				
Carboplatin	Surcharge for production of a parenteral preparation containing cytostatic	€81	1	17.4	€1,409.40
Cisplatin City	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	17.4	€1,409.40
Vinorelbine	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	2	34.8	€2,818.80

Designation of the therapy	Type of service	Costs/ unit	Number / cycle	Number/ patient/ year	Costs/ patient/ year
Gemcitabine	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	2	34.8	€2,818.80
Docetaxel	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	17.4	€1,409.40 1,409.40 €1,409.40
Paclitaxel	surcharge for production of a parenteral preparation containing cytostatic agents Surcharge for production of a parenteral preparation containing cytostatic agents Surcharge for production of a parenteral preparation containing cytostatic agents Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1 50 50 50 50 50 50 50 50 50 50 50 50 50	6197.40) 11Cals	€1,409.40
nab-paclitaxel	Surcharge for production of a parenteral preparation containing cytostatic agents	of the Pho	1	52.2	€4,228.20
Pemetrexed	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	17.4	€1,409.40

II. The resolution will enter into force on the day of its publication on the internet on the website of the G-BA on 2 April 2020.

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

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