Atezolizumab (New Therapeutic Indication: Breast Cancer, Triple Negative, PD-L1 Expression ≥ 1%)

Resolution of: 2 April 2020 valid until: unlimited

Entry into force on: 2 April 2020

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New therapeutic indication (according to the marketing authorisation of 26 August 2019):

Tecentriq in combination with nab-paclitaxel is indicated for the treatment of adult patients with unresectable locally advanced or metastatic triple-negative breast cancer (TNBC) whose tumours have PD-L1 expression ≥ 1% and who have not received prior chemotherapy for metastatic disease.

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

Adult patients with unresectable locally advanced or metastatic triple-negative breast cancer (TNBC) whose tumours have PD-L1 expression ≥ 1% and who have not received prior chemotherapy for metastatic disease

Appropriate comparator therapy:

A systemic therapy containing anthracycline and/or taxane, taking into account the marketing authorisation of the medicinal products.

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

Hint for a non-quantifiable additional benefit

Study results according to endpoints:1

Adult patients with unresectable locally advanced or metastatic triple-negative breast cancer (TNBC) whose tumours have PD-L1 expression ≥ 1% and who have not received prior chemotherapy for metastatic disease

Study IMpassion130:

Atezolizumab + nab-paclitaxel vs placebo + nab-paclitaxel

Sub-population: Patients whose tumours have a PD-L1 expression ≥ 1% of tumour infiltrating immune cells

¹ Data from the dossier evaluation of the IQWiG (A19-81) and the addendum (A20-11) unless otherwise indicated.

Mortality

Endpoint	_	Atezolizumab + nab-paclitaxel		Placebo + nab-paclitaxel	Intervention vs Control
	N	Median time to event in months [95% CI]	N	Median time to event in months [95% CI]	Effect estimator [95% CI] p value
		Patients with event n (%)		Patients with event n (%)	Absolute difference (AD) ^a
Overall survival					
	185	25.0 [19.6; 30.7] <i>94 (50.8)</i>	184	18.0 [13.6; 20.1] <i>110 (59.8)</i>	0.71 [0.54; 0.93] 0.013
					+ 7.0 months

Morbidity

•					
Progression-free	surviv	ral (PFS)b			
	149	7.5 [6.7; 9.2] 149 (80.5)	163	5.3 [3.8; 5.6] 163 (88.6)	0.63 [0.50; 0.80] < 0.0001 + 2.2 months
Symptomatology	,				
EORTC QLQ-C30) (symp	otom scales) ^{c,d}			
Fatigue	164	1.8 [1.1; 1.9] 142 (86.6)	158	1.9 [1.1; 2.7] 126 (79.7)	1.06 [0.83; 1.35] 0.613
Nausea and vomiting	164	3.8 [2.8; 6.0] 115 (70.1)	158	4.3 [2.8; 5.6] 102 (64.6)	1.01 [0.77; 1.33] 0.934
Pain	164	3.1 [2.0; 4.6] 123 (75.0)	158	5.1 [3.5; 7.4] 100 (63.3)	1.34 [1.03; 1.76] 0.031
Dyspnoea	164	3.9 [3.2; 5.6] 103 (62.8)	158	4.8 [2.9; 7.4] <i>90 (57.0)</i>	1.03 [0.78; 1.37] 0.821
Insomnia	164	6.6 [4.4; 12.2] <i>90 (54.9)</i>	158	7.3 [4.0; 15.6] <i>76 (48.1)</i>	1.03 [0.75; 1.39] 0.863
Loss of appetite	164	4.9 [3.8; 8.4] 97 (59.1)	158	4.3 [3.5; 6.1] <i>93 (58.9)</i>	0.94 [0.70; 1.25] 0.661

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Constipation	164	4.8 [3.7; 7.8] 102 (62.2)	158	5.7 [3.4; 7.6] 93 <i>(</i> 58.9)	0.95 [0.72; 1.26] 0.744	
Diarrhoea	164	4.9 [3.7; 8.3] 100 (61.0)	158	6.0 [4.7; 9.3] 87 (55.1)	1.12 [0.84; 1.49] 0.432	
EORTC QLQ-BR2	23 (syn	nptom scales) ^{c,d}	ı	L	L	
Side effects of the systemic therapy	164	1.1 [1.0; 1.2] 139 (84.8)	158	1.9 [1.1; 1.9] 124 (78.5)	1.18 [0.92; 1.51] 0.205	
Symptoms in the breast area	164	17.4 [9.8; 24.8] 67 (40.9)	158	12.0 [8.2; n.a.] 60 (38.0)	0.96 [0.67; 1.37] 0.813	
Symptoms in the arm area	164	4.6 [2.8; 5.6]	158	4.1 2.8; 7.4]	0.99 [0.75; 1.31] 0.945	
Burden of hair loss	103 (62.8) 93 (58.9) 0.945 No usable data ^e					
Health status (EQ-5D VAS) ^{c,f}						
	161	2.8 [1.9; 3.7] 122 (75.8)	151	3.7 [2.8; 5.2] 102 (67.5)	1.07 [0.82; 1.40] 0.590	

Health-related quality of life

EORTC QLQ-C30 (functional scales) c,f						
Global health status	164	2.9 [2.1; 3.7] 121 (73.8)	158	2.8 [2.4; 3.8] 104 (65.8)	1.00 [0.77; 1.31] 0.982	
Role function	164	2.8 [1.9; 3.7] 122 (74.4)	158	2.8 [2.4; 3.8] 119 (75.3)	0.91 [0.71; 1.18] 0.493	
Physical function	164	3.1 2.5; 4.4] 120 (73.2)	158	3.8 [3.1; 5.2] 116 (73.4)	0.97 [0.75; 1.25] 0.798	
Emotional function	164	6.5 [5.0; 9.5] <i>90 (54.9)</i>	158	6.0 [3.8; 9.6] <i>86 (54.4)</i>	0.91 [0.67; 1.22] 0.512	
Cognitive function	164	3.0 [2.8; 3.9] 117 (71.3)	158	3.5 [2.8; 4.4] 108 (68.4)	0.96 [0.74; 1.26] 0.792	

Social function	164	2.8 [2.1; 4.7] 120 (73.2)	158	2.9 [2.8; 3.8] 110 (69.6)	0.96 [0.74; 1.25] 0.793		
EORTC QLQ-BR2	23 (fun	ctional scales) ^{c,f}					
Body image	164	n.a.	158	n.a.	1.19 [0.73; 1.93]		
		38 (23.2)		29 (18.4)	0.479		
Future perspective	164	3.8 [2.7; 7.4]	158	4.7 [2.8; 14.3]	1.04 [0.77; 1.40]		
		93 (56.7)		78 (49.4)	0.777		
Sexual activity	164	23.7 [14.7; n.a.]	158	n.a. [12.0; n.a.]	0.88 [0.60; 1.28]		
		56 (34.1)		54 (34.2)	0.495		
Sexual pleasure		No usable datae					

Side effects

Endpoint		Atezolizumab + nab-paclitaxel		Placebo + nab-paclitaxel	Intervention vs Control	
	N	Median time to event in months [95% CI]	N	Median time to event in months [95% CI]	Effect estimator [95% CI] p value	
		Patients with event n (%)		Patients with event n (%)	Absolute difference (AD) ^a	
Adverse events (A	AE, pr	esented additionally)				
	185	no data available	181	no data available	-	
		185 (100.0)		177 (97.8)		
Serious adverse	Serious adverse events (SAE)					
	185	no data available	181	no data available	1.17	
		43 (23.2)		31 (17.1)	[0.74; 1.87] 0.501	
Severe adverse e	vents	(CTCAE grade 3-4)				
	185	no data available	181	no data available	1.20	
		97 (52.4)		73 (40.3)	[0.89; 1.63] 0.234	
Discontinuation b	ecaus	se of AE				
	185	no data available	181	no data available	2.34	
		37 (20.0)		13 (7.2)	[1.24; 4.41] 0.007	
Specific adverse	events	<u> </u>				
Immune mediated AE	185	no data available 107 (57.8)	181	no data available 66 (36.5)	1.63 [1.20; 2.22] 0.002	

Immune mediated AE	185	no data available 3 (1.6)	181	no data available 3 (1.7)	0.80 [0.16; 3.96] 0.778
Immune mediated severe AE (CTCAE grade 3-4)	185	no data available 10 (5.4)	181	no data available 7 (3.9)	1.20 [0.46; 3.17] 0.710
Investigations (SOC, severe AE, CTCAE grade 3–4)	185	no data available 26 (14.1)	181	no data available 11 (6.1)	2.06 [1.02; 4.18] 0.041

^a Absolute difference (AD) given only in the case of a statistically significant difference; own calculation

Abbreviations used:

AD = absolute difference; CTCAE = Common Terminology Criteria for Adverse Events; EORTC: European Organisation for Research and Treatment of Cancer; EQ-5D: European Quality of Life Questionnaire – 5 Dimensions; HLT: high level term; HR = hazard ratio; CI = confidence interval; N = number of patients evaluated; MedDRA: Medical Dictionary for Regulatory Activities; n = number of patients with (at least one) event; n.a. = not achieved; PT: preferred term; QLQ-BR23: Quality of Life Questionnaire – Breast Cancer 23; QLQ-C30: Quality of Life Questionnaire – Core 30; SMQ: standardised MedDRA questionnaire; SOC: system organ class; VAS: visual analogue scale; vs = versus

Summary of results for relevant clinical endpoints

Endpoint category	Direction of effect/	Summary
Mortality	↑	Advantage in overall survival
Morbidity	\downarrow	Disadvantage in the symptom scale pain
Health-related quality of life	\leftrightarrow	no relevant difference
Side effects	↓	Disadvantage in discontinuation because of AE and in specific AE

Explanations:

- 1, 1: statistically significant and relevant positive or negative effect with high or unclear risk of bias
- ↑↑, ↓↓: statistically significant and relevant positive or negative effect with low risk of bias
- ↔: no relevant difference

Ø: no data available

n.a.: not assessable

b Information from the dossier of the pharmaceutical company data cut-off of 2 January 2019

c Results for all patients for whom there was 1 evaluation at the start of study and at least 1 evaluation after the start of study.

^d Time to first deterioration; defined as an increase of the score by ≥ 10 points compared with baseline

^e Unclear proportion of patients with missing values at the start of study and during the course of the study

f Time to first deterioration; defined as a decrease of the score by ≥ 10 points compared with baseline

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

Adult patients with unresectable locally advanced or metastatic triple-negative breast cancer (TNBC) whose tumours have PD-L1 expression ≥ 1% and who have not received prior chemotherapy for metastatic disease

approx. 920-1110 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/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 gynaecology and obstetrics, and specialists participating in the Oncology Agreement who are experienced in the treatment of patients with breast 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:

Adult patients with unresectable locally advanced or metastatic triple-negative breast cancer (TNBC) whose tumours have PD-L1 expression ≥ 1% and who have not received prior chemotherapy for metastatic disease

Designation of the therapy	Annual treatment costs/patient			
Medicinal product to be assessed:				
Atezolizumab	€80,979.34			
nab-paclitaxel	€29,203.98			
Total:	€110,183.32			
Appropriate comparator therapy:				

Designation of the therapy	Annual treatment costs/patient		
A therapy containing anthracycline and/or taxane	€2,081.55 - 56,917.24 ²		

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

Costs for additionally required SHI services:

Designation of the therapy	Annual treatment costs/patient
Appropriate comparator therapy:	
Paclitaxel	€230.54

Other services covered by SHI funds:

Designation of the therapy	Type of service	Costs/ unit	Number/ cycle	Number/ patient/ year	Costs/ patient/ year
Atezolizumab	Surcharge for the preparation of a parenteral solution containing monoclonal antibodies	€71	2	26	€1,846
nab-paclitaxel	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	3	39	€3,159
Docetaxel	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	17.4	€1,409.40
Doxorubicin (monotherapy)	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	5–11	€405 – 891
Doxorubicin (in combination with docetaxel or paclitaxel)	Surcharge for production of a parenteral preparation	€81	1	9–11	€729 – 891

 $^{2 \ \, \}text{The cost range results from the low-cost therapy doxorubicin and the cost-intensive therapy liposomal} \\ \, \text{doxorubicin} + \text{cyclophosphamide}$

	containing cytostatic agents				
Doxorubicin (in combination with cyclophosphamide)	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	7–9	€567 – 729
Cyclophosphamide	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	17.4	€1,409.40
Paclitaxel	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	17.4	€1,409.40
Doxorubicin (pegylated, liposomal)	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	13	€1,053
Liposomal doxorubicin	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	17.4	€1,409.40
Epirubicin (monotherapy)	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	10–16	€810 – 1,296
Epirubicin (in combination with cyclophosphamide)	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	12–16	€972 – 1,296
Epirubicin (in combination with paclitaxel)	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	15–16	€1,215 – 1,296

Epirubicin (in combination with docetaxel)	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	1	12–13	€972 – 1,053
Gemcitabine	Surcharge for production of a parenteral preparation containing cytostatic agents	€81	2	34.8	€2,818.80