Report TECENTRIQ® Atezolizumab

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Product	Authorized indications	Essential therapeutic features	NHS impact
Mechanism of	Licensing status		
action Substance:	Authorized Indication:	Summary of clinical EFFICACY:	Control of the control
atezolizumab		,	Cost of therapy:
atezonzumab	EMA: atezolizumab as monotherapy is	IMpower110 (NCT02409342): a multicenter, international, randomized, open-label, Phase 3 trial evaluating the efficacy	7,596.38€* for one IV vial1.200 mg 20 ml[6]
Durand Names	indicated for the first-line treatment of	of atezolizumab in 572 adult pts with stage IV non-squamous or squamous NSCLC who had not previously received	Price for one cycle: 7,596.38€
Brand Name:	adult pts with metastatic NSCLC whose	chemotherapy and who had PD-L1 expression on at least 1% of TC or at least 1% of tumor-infiltrating IC.Pts were	*retail price including VAT
Tecentriq®	tumors have a PD-L1 expression ≥ 50% TC	randomly assigned in a 1:1 ratio to receive either atezolizumab 1200 mg IV (n=285) once every 3 weeks or platinum-	
0.1.1	or ≥ 10% tumor-infiltrating IC and who do	based chemotherapy (n=287). Platinum-based chemotherapy regimens consisted in:	Epidemiology: primary lung cancer remains the most
Originator/licens	not have EGFR mutant or ALK-positive	- for non-squamous NSCLC, cisplatin (75 mg/m²) and pemetrexed (500 mg/m²) or carboplatin (AUC 6 mg/mL/min) and	common malignancy after non-melanocytic skin
ee:Roche	NSCLC [2].	pemetrexed (500 mg/m²) every 3 weeks for a maximum of 4 or 6 cycles followed by pemetrexed 500 mg/m² until	cancer, and deaths from lung cancer exceed those
Registration	FDA: ataralismusch is indicated for the	disease progression or unacceptable toxicity;	, and the second
GmbH	FDA: atezolizumab is indicated for the	- for squamous NSCLC, cisplatin (75 mg/m²) on Day 1 with gemcitabine (1250 mg/m²) on Days 1 and 8 of each 21-day	from any other malignancy worldwide[7].In 2020,
Classification NII	first-line treatment of adult pts with	cycle or carboplatin (AUC 5 mg/mL/min) on Day 1 with gemcitabine (1000 mg/m²) on Days 1 and 8 of each 21-day	about 41,000 new cases of lung cancer were
Classification: NI	metastatic NSCLC whose tumors have	cycle for a maximum of 4 or 6 cycles followed by BSC until disease progression or unacceptable toxicity.	estimated in Italy (27,550 in men and 13,300 in
ATC	high PD-L1 expression (PD-L1 stained ≥	The primary endpoint was OS in the PD-L1-selected population that excluded pts with EGFR mutations or ALK	women): it is the second most frequent malignancy
ATC	50% of TC [TC ≥ 50%] or PD-L1 stained	translocations. According to the results of the interim analysis, among pts with EGFR and ALK wild-type tumours who had	in men (14%) and the third in women (7%) [8].NSCLC
code:L01XC32	tumor-infiltrating IC covering ≥ 10% of the	high PD-L1 expression, the median OS was significantly longer - by 7.1 months - in the atezolizumab group than in the	accounts for 80%-90% of lung cancers[9].
0	tumor area [IC ≥ 10%]), as determined by	chemotherapy group (20.2 months vs. 13.1 months)[3][4][5]	Approximately 23 to 28% of pts with advanced
Orphan Status:	an FDA-approved test, with no EGFR or	Company of the land CAPPENY	· · · · · · · · · · · · · · · · · · ·
Eu:No	ALK genomic tumor aberrations [3].	Summary of clinical SAFETY:	NSCLC have a high level of PD-L1 expression[10][11].
Us:No		Among all the pts who could be evaluated for safety, AEs occurred in 90.2% of the pts in the atezolizumab group and in	
	Route of administration: IV	94.7% of those in the chemotherapy group; grade 3 or 4 AEs occurred in 30.1% and 52.5% of the pts in the respective	
Mechanism of		groups. The most frequent grade 3 or 4 AEs occurring in the atezolizumab group were pneumonia (2.4%), hyperkalemia	POSSIBLE PLACE IN THERAPY: for pts with advanced
action:	Licensing status	(2.1%), hyponatremia (2.1%) and anemia (1.7%)[4].	NSCLC and PD-L1 expression ≥ 50%, with no EGFR or
atezolizumab is a	EU CHMP P.O. date:25/03/2021		ALK genomic tumor aberrations and who do not
monoclonal	FDA M.A. date:18/05/2020	Ongoing studies:	have contraindications to use of immunotherapy,
antibody designed		For the same indication: Yes	pembrolizumab is considered a standard first-line
to recognise and	EU Speed Approval Pathway:No	For other indications: Yes	•
attach to PD-L1.	FDA Speed Approval Pathway:No		option.Atezolizumab represents a promising first-line
PD-L1 acts to	ABBREVIATIONS:	Discontinued studies (for the same indication): No	treatment option in pts with PD-L1-high[12].
switch off	AE: adverse event	· · · · · · · · · · · · · · · · · · ·	
immune cells that	AUC: area under the concentration–time Curve;	References:	OTHER INDICATIONS IN DEVELOPMENT: SCLC,
would otherwise	BSC: best supportive care;	[1].https://www.ema.europa.eu/en/documents/product-information/tecentriq-epar-product-information_en.pdf	Malignant Pleural Mesothelioma, Thymic Carcinoma,
attack the cancer	CHMP: Committee for Medicinal Products for	[2].https://www.ema.europa.eu/en/medicines/human/summaries-opinion/tecentriq-3	Urinary Tract Cancer, DLBCL, NHL, Cutaneous T-cell
cells. By attaching	Human Use;	[3]. https://www.accessdata.fda.gov/drugsatfda_docs/label/2020/761034s031s032lbl.pdf	lymphoma, Rectal Cancer, Breast Cancer, Bladder
to PD-L1 and	DLBCL: Diffuse Large B-Cell Lymphoma;	[4].Herbst RS, Giaccone G, de Marinis F, et al. Atezolizumab for First-Line Treatment of PD-L1-Selected Patients with NSCLC. N Engl J Med. 2020;383(14):1328-1339. doi:10.1056/NEJMoa1917346	Cancer, other[13].
reducing its	IC: immune cells;	[5].https://clinicaltrials.gov/ct2/show/NCT02409342	Cancer, Other[15].
effects,	IV: intravenous;	[6].https://gallery.farmadati.it/Home.aspx	
atezolizumab	M.A.: Marketing Authorization;	[7]. IARC. Cancer Incidence, Mortality and Prevalence Worldwide GLOBOCAN 2012. http://gco.iarc.fr/	SAME INDICATION IN EARLIER LINE(S) OF
increases the	NHL: non-Hodgkin lymphoma;	[8]. Neoplasie del polmone. Linee Guida AIOM 2020	TREATMENT:No
ability of the	NSCLC: non-small cell lung cancer;	[9]. Jemal A, Bray F, Center MM et al. Global cancer statistics. CA Cancer J Clin 2011; 61: 69–90.	
immune system	OS: Overall Survival; PD-L1: programmed death-ligand1;	[10].Herbst RS, Baas P, Kim DW, et al.Pembrolizumab versus docetaxel for previouslytreated, PD-L1-positive, advanced nonsmall-cell lung	OTHER DRUGS IN DEVELOPMENT for the SAME
to attack the	P.O.: Positive Opinion;	cancer (KEYNOTE-010): arandomised controlled trial. Lancet 2016;387: 1540-50. [11].Garon EB, Rizvi NA, Hui R, et al. Pembrolizumab for the treatment of non-small-cell lung cancer. N Engl J Med 2015;372: 2018-28.	INDICATION: No
cancer cells and	Pts: patients;	[11].Garon EB, KIZVI NA, Hui K, et al. Pembrolizumab for the treatment of non–small-cell lung cancer. N Engl J Med 2015;372: 2018-28. [12].D. Planchard et al. Metastatic non-small cell lung cancer: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-	[if it is]
thereby slows	SCLC: small cell lung cancer;	up.Ann Oncol (2018) 29(Suppl 4): iv192–iv237 (Updated version published 15 September 2020)	
down the	TC: tumor cells	[13].https://www.clinicaltrials.gov/	*Service reorganization: Yes
progression of the			*Possible off label use: No
disease [1].			