## Report Imfinzi® – Durvalumab

Product &	Authorized indications	Formation Indiana and the formation for the same	NUC in a set
Mechanism of action	Licensing status	Essential therapeutic features	NHS impact
Substance: Durvalumab	Authorized Indication:	Summary of clinical EFFICACY: POSEIDON (NCT03164616) is a randomized, open-label, multi-center, phase III study to evaluate tremelimumab plus	Cost of therapy:Considering the ex-
	EMA: Durvalumab in combination	durvalumab and chemotherapy (T+D+CT) and durvalumab plus chemotherapy (D+CT) versus chemotherapy alone (CT) in firstline metastatic NSCLC.	factory price (2,631.59€ for Imfinzi®
Brand Name:Imfinzi®	with tremelimumab and platinum-	Chemotherapy options for all arms included carboplatin plus nab-paclitaxel regardless of histology, cisplatin or carboplatin plus gemcitabine for pts with squamous histology, and cisplatin or carboplatin plus pemetrexed for pts with non-squamous histology. Eligible pts had EGFR/ALK wild-type	50mg/mL 10mL, corresponding to 500mg of durvalumab), a single
Originator/licensee:AstraZeneca	based chemotherapy is indicated for	metastatic NSCLC with ECOG performance status of 0 or 1 and must have had no prior systemic therapy for metastatic NSCLC. Pts were randomly	administration of 1500mg would
AB	the firstline treatment of adults with metastatic NSCLC with no sensitising	assigned (1:1:1) with stratification by PD-L1 expression (TC ≥50% vs TC <50%), disease stage (Stage IVA vs Stage IVB), and histology (non-squamous	cost 7,894.77€[5].
Classification: NI	EGFR mutations or ALK positive	vs squamous) to: T+D+CT (T 75mg + D 1500mg + CT for up to four 21-day cycles, followed by D 1500mg once every 4 weeks, with one additional T	Foldonislamula Habi in 2020
	mutations [2].	dose after CT at week 16/cycle 6, i.e. fifth dose); D+CT (D 1500mg + CT for up to four 21-day cycles, followed by D 1500mg once every 4 weeks); or CT for up to six 21-day cycles. Pts continued treatment until disease progression or unacceptable toxicity.	<b>Epidemiology:</b> In Italy, in 2020, a prevalence of more than 117,000
ATC code:L01XC28	FDA: Durvalumab in combination with	The primary endpoints were PFS and OS for D+CT vs CT.Key alpha-controlled secondary endpoints were PFS and OS for T+D+CT vs CT. Initially, 1%	subjects with a previous diagnosis of
Orphan Status:	tremelimumab and platinum-based	alpha and 4% alpha were allocated to PFS and OS, respectively, for the D+CT vs CT comparison. Positivity for either primary endpoint enabled	lung cancer, and about 41,000 new
Eu: No	chemotherapy is indicated for the	alpharecycling to the key secondary PFS and OS endpoints (T+D+CT vs CT). If either of the key secondary PFS or OS endpoints was met, the alpha	cases of lung cancer were estimated
Us: No	treatment of adult pts with metastatic	could be recycled to the other key secondary endpoint.  PFS was significantly improved with D+CT vs CT (HR: 0.74; 95%CI: 0.62 to 0.89; P=0.0009). The median PFS was 5.5 (95%CI: 4.7to 6.5) vs 4.8 (95%CI:	[6]. About 85% of lung cancers are NSCLC [7-8], and the majority of pts
Mechanism of action:	NSCLC with no sensitizing EGFR mutations or ALK genomic tumor	4.6 to 5.8) months in the D+CTand CT arms, respectively, with 12-month PFS rates of 24.4% vs 13.1%.	with NSCLC have no EGFR or ALK
Durvalumab is a fully human	aberrations [3].	Although a trend forimprovement in OS was observed for D+CT vs CT, thiswas not statistically significant (HR: 0.86; 95%CI: 0.72 to 1.02; P=0.0758).	mutations [8].
monoclonal antibody that	Route of administration: IV	The median OS was 13.3 (95% CI: 11.4 to 14.7) vs 11.7 (95%CI: 10.5 to 13.1) months with D+CT vs CT, respectively, and 24-month OS rates	
selectively blocks the interaction	Route of autimistration. 19	were29.6% vs 22.1%.  PFS for T+D+CT vs CT could be formally assessed, as the primary PFSendpoint for D+CT vs CT had been met. As this key secondary endpoint was also	POSSIBLE PLACE IN THERAPY:  Durvalumab in combination with
of PD-L1 with PD-1 and CD80.	Licensing status:	met, the comparison of OS forT+D+CT vs CT was also formally assessed. Both PFS (HR: 0.72; 95%CI: 0.60 to 0.86; P=0.0003) and OS (HR: 0.77; 95%CI:	tremelimumabadded to standard
The blockade of PD-L1/PD-1 and PD-L1/CD80 interactions	EU CHMP P.O. date:15/12/2022	0.65 to 0.92; P=0.0030) showed statistically significant improvement for T+D+CT vs CT. The median PFS was 6.2 months (95%CI: 5.0 to 6.5) vs 4.8	chemotherapy has been approved
enhances antitumour immune	FDA M.A. date: 10/11/2022	months (95%CI: 4.6 to 5.8), with12-month PFS rates of 26.6% vs 13.1%, in the T+D+CTarm vs CT arm, respectively. The median OS was 14.0 months	as first line treatment[2].
responses and increases T-cell	EU Speed Approval Pathway: NO	(95%CI: 11.7 to 16.1) with T+D+CT vs 11.7 months (95%CI: 10.5 to 13.1) with CT; 24-month OS rates were 32.9% vs 22.1% [4].	
activation [1].	FDA Speed Approval Pathway: NO	Summary of clinical SAFETY: The safety analysis of the POSEIDON trial included 330, 334 and 333 pts in the T+D+CT, D+CT and CT arms, respectively.	OTHER INDICATIONS IN DEVELOPMENT: Bladder cancer;
		Any-grade AEs considered by the investigator to be treatment-related were reported in 306 (92.7%), 296 (88.6%), and 298 (89.5%) of pts treated	Cervical cancer; Endometrial cancer;
	ABBREVIATIONS:	with T+D+CT, D+ CT and CT, respectively. The incidence of treatment-related AEs with maximum grade 3/4 severity was numerically higher in the	Fallopian tube cancer; Gastric
	AEs: Adverse events ALK: anaplastic lymphoma kinase	T+D+CT arm (51.8%) compared with the other arms (44.6% for D+CT and 44.4% for CT); a similar pattern was observed for treatment-related SAEs	cancer; Head and neck cancer; Liver
	CHMP: Committee for Medicinal	(27.6% vs 19.5% and 17.7%). The most common treatment-related AEs of maximum grade 3/4 were anemia and neutropenia. Treatment-related deaths occurred in 11 (3.3%), 7 (2.1%), and 8 (2.4%) pts treated with T+D+CT, D+ CT and CT, respectively [4].	cancer; Pancreatic cancer;
	Products for Human Use		Mesothelioma; Oesophageal cancer; Ovarian cancer; Peritoneal cancer;
	CTLA-4: Cytotoxic T-Lymphocyte Antigen	Ongoing studies:	Renal cell carcinoma; Solid tumours;
	EGFR: epidermal growth factor receptor	For the same indication: Yes  For other indications: Yes	Triple negative breast cancer [9].
	EOCG: Eastern Cooperative Oncology	Discontinued studies (for the same indication): Yes	
	Group  HR: Hazard ratio		SAME INDICATION IN EARLIER LINE(S) OF TREATMENT: -
	M.A.: Marketing Authorization	References:	ENCES OF TREATMENT.
	NI: New Indication	1. https://www.ema.europa.eu/en/documents/product-information/imfinzi-epar-product-information_en.pdf     2. https://www.ema.europa.eu/en/medicines/human/summaries-opinion/imfinzi-1	OTHER DRUGS IN DEVELOPMENT
	NSCLC: Non-small cell lung cancer	3. https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/761069s033lbl.pdf 4. https://pubmed.ncbi.nlm.nih.gov/36327426/	for the SAME INDICATION:
	OS: overall survival PD-1: Programmed Death	5. https://gallery.farmadati.it/	Datopotamabderuxtecan,penpulima
	PD-L1: Programmed Death Ligand	6. https://www.aiom.it/wp-content/uploads/2020/10/2020_LG_AIOM_Polmone.pdf 7.https://www.cancer.org/cancer/lung-cancer/about/what-is.html	b. [10]
	PFS: progression-free survival	8. https://www.io.nihr.ac.uk/wp-content/uploads/2022/01/19355-Durvalumab-Tremelimumab-Chem-for-NSCLC-V1.0-MAY2018-NON-CONF.pdf	*Service reorganization: No
	P.O.: Positive Opinion TC: tumor cells	9. https://adisinsight.springer.com/drugs/800037095 10. https://clinicaltrials.gov/	*Possible off label use: Yes
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