Trastuzumab deruxtecan (Enhertu®) as monotherapy for the treatment of patients with advanced non-small cell lung cancer (NSCLC) whose tumours have an activating HER2 (ERBB2) mutation **General information** Drug description (1) Trastuzumab deruxtecan (Enhertu®, DS-8201a) is a HER2-directed antibody and topoisomerase inhibitor conjugate. Indication (2) Enhertu® as monotherapy is indicated for the treatment of adult patients with advanced NSCLC whose tumours have an activating HER2 (ERBB2) mutation and who require systemic therapy following platinumbased chemotherapy with or without immunotherapy. Incidence In Austria, in 2020, the age-standardised incidence rate¹ of cancer of the lung, trachea and bronchus was 67.4 per 100,000 men and 41.1 per 100,000 women (3). $\dot{\mathbf{x}}$ In 2017 - 2019, NSCLC accounted for approximately 79% of all lung cancer cases reported to cancer registries via hospitals, practices, or pathologies (based on cancer registry data from the individual * German states). 15% were small cell lung cancer, and in approximately 5% of cases, no assignment was possible due to nonspecific histology information. Adenocarcinomas formed the largest group within NSCLC at 54%, followed by squamous cell carcinomas (28%) (4). Current treatment (4) HER2 is mutated in 1-4% of NSCLC and overexpressed in 30%. Underlying genetic aberrations include mutations and amplifications, or overexpression of the protein. Retrospective data suggest the efficacy * of chemo-immunotherapy in this patient population. Strategies for targeted therapy include monotherapy with trastuzumab, combination chemotherapy with trastuzumab, double antibody blockade with trastuzumab/pertuzumab, and use of the antibody $\dot{\mathbf{x}}$ conjugates trastuzumab emtansine and trastuzumab deruxtecan. When refractory to standard therapy, therapy with trastuzumab deruxtecan resulted in a remission rate of 55%, a median PFS of 8.2 months, and a median OS of 17.8 months in a phase II study of 91 patients. * A particular side effect is interstitial lung disease; it occurred in 26% of patients. **Regulatory status** EMA (2) FDA (1, 5) Approval status for this indication: On 14 September 2023, the CHMP adopted Approval status for this indication: On 11 August 2022, the FDA granted accelerated approval to fam-trastuzumab deruxtecannxki (Enhertu®) for adult patients with unresectable or metastatic NSCLC whose tumours have activating human epidermal a positive opinion recommending a change to the terms of the marketing growth factor receptor 2 HER2 (ERBB2) mutations, as detected by an FDA-approved test, and who have received a prior systemic authorisation for Enhertu®. therapy. This is the first drug approved for HER2-mutant NSCLC. The CHMP adopted a new indication as follows: FDA also approved the Life Technologies Corporation's Oncomine™ Dx Target Test (tissue) and the Guardant Health, Inc.'s Enhertu[®] as monotherapy is indicated for the treatment of adult Guardant360® CDx (plasma) as companion diagnostics for Enhertu®. If no mutation is detected in a plasma specimen, the tumour patients with advanced NSCLC whose tumours have an activating tissue should be tested. HER2 (ERBB2) mutation and who require systemic therapy following platinum-based chemotherapy with or without immunotherapy. ✓ Priority review Breakthrough designation \checkmark Other indications: Enhertu® is indicated: as monotherapy for the treatment of adult patients with unresectable Other indications: Enhertu® is indicated for the treatment of: or metastatic HER2-positive breast cancer who have received one or * adult patients with unresectable or metastatic HER2-positive breast cancer who have received a prior anti-HER2-based more prior anti-HER2-based regimens. regimen either: * as monotherapy for the treatment of adult patients with unresectable in the metastatic setting, or ٠ or metastatic HER2-low breast cancer who have received prior in the neoadjuvant or adjuvant setting and have developed disease recurrence during or within six months of ٠ chemotherapy in the metastatic setting or developed disease completing therapy. recurrence during or within 6 months of completing adjuvant chemotherapy.

¹ European Standard Population 2013.

 ✓ ✓ 	 adult patients with unresectable or metastatic HER2-low (IHC 1+ or IHC 2+/ISH-) breast cancer, as determined by an FDA-approved test, who have received prior chemotherapy in the metastatic setting or developed disease recurrence during or within 6 months of completing adjuvant chemotherapy. This indication is approved under accelerated approval based on objective response rate and duration of response. adult patients with locally advanced or metastatic HER2-positive gastric or gastroesophageal junction adenocarcinoma who have received a conditional marketing authorisation² 									
	Manufacturer									
Enhertu	nhertu® is manufactured by Daiichi Sankyo.									
	Costs									
Enhertu	Enhertu® powder for concentrate for solution for infusion 100 mg = € 1,600.00 (ex-factory price) (6)									
	Posology (7)									
* * *	 In order to prevent medicinal product errors, it is important to check the vial labels to ensure that the medicinal product being prepared and administered is Enhertu® (trastuzumab deruxtecan) and not trastuzumab or trastuzumab emtansine. Enhertu® should not be substituted with trastuzumab or trastuzumab emtansine. Patient selection: NSCLC Patients treated with trastuzumab deruxtecan for advanced NSCLC should have an activating HER2 (ERBB2) mutation detected by a CE-marked in vitro diagnostic (IVD) medical device. If a CE-marked IVD is not available, the HER2 mutation status should be assessed by an alternate validated test. Premedication Enhertu® is emetogenic, which includes delayed nausea and/or vomiting. Prior to each dose of Enhertu®, patients should be premedicated with a combination regimen of two or three medicinal products (e.g., dexamethasone with either a 5-HT3 receptor antagonist and/or an NK1 receptor antagonist, as well as other medicinal products as indicated) for prevention of 									
	Warnings and precautions (1, 7)									
* *	 Interstitial lung disease (ILD) and pneumonitis ILD and pneumonitis including fatal cases, have been reported with Enhertu[®]. Monitor for and promptly investigate signs and symptoms including cough, dyspnoea, fever, and other new or worsening respiratory symptoms. Permanently discontinue Enhertu[®] in all patients with Grade 2 or higher ILD/pneumonitis. Advise patients of the risk and to immediately report symptoms. Exposure to Enhertu[®] during pregnancy can cause embryo-foetal harm. Advise patients of these risks and the need for effective contraception. Neutropenia 									
*	 Monitor complete blood counts prior to initiation of Enhertu® and prior to each dose, and as clinically indicated. Manage through treatment interruption or dose reduction. Left ventricular dysfunction (LVEF) Assess LVEF prior to initiation of Enhertu® and at regular intervals during treatment as clinically indicated. Manage through treatment interruption or discontinuation. 									
*	Permanently discontinue Enhertu [®] in patients with symptomatic congestive heart failure. Traceability									

² The approval of a medicine that address unmet medical needs of patients on the basis of less comprehensive data than normally required. The available data must indicate that the medicine's benefits outweigh its risks and the applicant should be in a position to provide the comprehensive clinical data in the future.

- In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.
- * Patients with moderate or severe hepatic impairment
 - There are limited data in patients with moderate hepatic impairment and no data in patients with severe hepatic impairment. As metabolism and biliary excretion are the primary routes of elimination of the topoisomerase I inhibitor, DXd, Enhertu® should be administered with caution in patients with moderate and severe hepatic impairment.

Study characteristics (1, 8, 9, 10, 11)														
Trial name n Intervention (I) Interv			ention 2 (I2)	PE	Median follow-up	Characteristics		Biomarker	Funding	Publication(s)				
DESTINY-Lungo2 52 NCT04644237 2:1 ³		Trastuzumab deruxtecan 5.4 mg/kg every 3 weeks	Tra deruxte eve	stuzumab can 6.4 mg/kg ry 3 weeks	Confirmed ORR by BICR	Median follow-up duration was 5.6/5.4 months and 3.8/3.9 months	ongoing ⁴ , multicentre, multi- cohort, randomized, blinded, dose- optimisation, phase 2 trial		HER2	Daiichi Sankyo, Inc., and AstraZeneca.	DESTINY- Lungo2 (9)			
Inclusion criteria				Exclusion criteria				Patient characteristics at baseline (I vs. I2, n=102 vs. n=50)						
 <> ≥18 y meta HER: Previa in the not a Parti the la beca Prese confi 1.1. Willin tissup archi supp accel are n ECOU LVEF rando biops 	vears with astatic NS 2 mutation ious treating e metasta imenable cipant mu ast treating use of una ence of at immed by t immed by	pathologically document LC with a known activation ment including platinum to ic/locally advanced settir to curative surgery or radist thave progressed during ent regimen or discontinu cceptable toxicity. least 1 measurable lesion the BICR based on RECIST to provide an archival to A fresh biopsy is required r tissue sample cannot be tion and core needle biop e needle aspirates or cell able. thin 28 days before . Resection and core need ptable. Adequate organ	ed ing herapy ig and ation. g or after ued version umour if an soy are block	 Knoo a km Mecorrance Partidefii symmetrance Corrance >45 eleco Hist cort Spirridefii cort defii cort Multiple resse dise Hist substitution 	 Known driver mutation in the EGFR, BRAF, or MET exon 14 gene or a known ALK, ROS1, RET, or NTRK fusion. Medical history of myocardial infarction within 6 months before randomization, symptomatic CHF (NYHA Class II to IV). Participants with troponin levels above ULN at screening (as defined by the manufacturer) and without any MI-related symptoms should have a cardiologic consultation before randomization to rule out MI. Corrected QT interval (QTcF) prolongation > 470 msec (females) or >450 msec (males) based on average of the triplicate12-lead electrocardiogram at screening. History of non-infectious ILD/pneumonitis that required steroids, current ILD/pneumonitis, or where suspected ILD/pneumonitis cannot be ruled out by imaging at screening. Spinal cord compression or clinically active CNS metastases, defined as untreated and symptomatic, or requiring therapy with corticosteroids or anticonvulsants to control associated symptoms. Multiple primary malignancies within 3 years, except adequately resected non-melanoma skin cancer, curatively treated in-situ disease, or other solid tumours curatively treated. History of severe hypersensitivity reactions to either the drug 				 Median age (range): 59.4 (31-84) vs. 61.3 (28-86) years Male sex: 36.3% vs. 32.0% Race: Asian: 63.7% vs. 62.0% White: 22.5% vs. 10.0% Others: 13.7% vs. 24.0% Region: Asia: 61.8% vs. 60.0% North America: 3.9% vs. 4.0% Europe: 32.4% vs. 34.0% Australia: 2.0% vs. 24.0% ECOG PS: 0: 28.4% vs. 38.0% 1: 71.6% vs. 62.0% Histology: Adenocarcinoma: 98.0% vs. 100.0% Squamous: 1.0% vs. 0 HER2 mutations: Kinase domain: 97.1% vs. 100.0% Extracellular domain: 2.9% vs. 0 					
as sp rando * Adec	ecified in omization juate trea	brotocol within 14 days be 	fore	 Hist anti Unc anti 	ory of severe hype bodies. ontrolled infection	ersensitivity reactions to other n requiring IV antibiotics, antiv	monoclonal rals, or	 History of prior lung resection: 21.6% vs. 24.0% Renal function at baseline: Normal renal function: 37.3% vs. 32.0% 						
 Parti pote contri 	cipants of ntial agree raception	reproductive/childbearin to use a highly effective or avoid intercourse) dur	g form of ing	Sub sign opir	stance abuse or a ificant cardiac or nion of the investio	ny other medical conditions suc psychological conditions, that i gator, interfere with the partici	 Mild renal impairment: 40.2% vs. 58.0% Moderate renal impairment: 22.5% vs. 10.0% Hepatic function at baseline: Normal hepatic function: 74.5% vs. 78.0% 							

³ The study was not powered to statistically compare the doses.

⁴ DESTINY-Lungo2 is currently ongoing; the estimated study completion date is 03/2024.

 study period and up to 7 months (females) and 4 months (males) after last study dose. Males should not freeze or donate sperm throughout the study period up to at least 4 months after last study dose; females should not donate or retrieve ova for their own use throughout the study period and up to at least 7 months after last study dose. Life expectancy of ≥3 months. 	 participation in the clinical study or evaluation of the clinical stud results. Known HIV infection Known active, clinically relevant liver disease such as those with serologic evidence of viral infection within 28 days of Cycle 1, Day Unresolved toxicities from previous anticancer therapy, defined a toxicities (other than alopecia) not yet resolved to Grade ≤ 1 or baseline. Pregnant, breastfeeding, or planning to become pregnant. Otherwise considered inappropriate for the study by the Investigator. Lung-specific intercurrent clinically significant illnesses including but not limited to, any underlying pulmonary disorder. Any autoimmune, connective tissue or inflammatory disorders where there is documented, or a suspicion of pulmonary involvement at the time of screening. Prior complete pneumonectomy. Prior treatment with any agent, including an antibody drug conjugate, containing a chemotherapeutic agent targeting topoisomerase l. 	 Mild hepatic impairment: 25.5% vs. 22.0% Smoking history: Former: 46.1% vs. 42.0% Never: 53.9% vs. 58.0% Never: 53.9% vs. 58.0% Any prior systemic anticancer therapy:				
Data cut-off: 22 June 2022, n=52	Drug-related TEAEs all grades: 92.1% vs. 100%					
Confirmed ORR: 57.7% (95% Cl; 43.2-71.3)		Drug-related TEAEs grade ≥3: 31.7% vs. 58.0%				
CR: 1.9%		Drug-related TEAEs assoc. with drug discontinuation: 7.9% vs. 16.0%				
PR: 55.8%						
Median DoR: 8.7 months (95% Cl, 7.1-NE)		Primary results; data cutoff 23 December 2022:				
		Drug-related any-grade TEAEs: 96.0% vs. 100%				
Efficacy I (n=52) vs. C (n=28)		Drug-related grade \geq 3 TEAEs: 38.6% (95% Cl, 29.1-48.8) vs. 58.0% (95% Cl,				
CURR: 53.8 (95% Cl; 39.5-67.8) vs. 42.9% (95% Cl, 24.5-62.8)		43.2-71.8)				
LK: 1.9% VS. 3.6%	Drug-related I EAEs leading to drug discontinuation ⁵ : 13.9% vs. 20.0%					
rk: 51.9% vs. 39.3%	Aujudicated drug-related ILD: 12.9% VS. 28.0%					
Progressive disease: 38% vs. 50.0%						
Nonevaluable: $r 8\% vs = 6\%$	Hypertension: 1.0% vs. 4.0%					
Disease control rate: 90,4% (95% CL 70.0-06.8) vs. 92.0% (95	/r -					
Median DoR: NE (95% Cl. 4.2-NE) vs. 5.9 months (95% Cl. 2.8-						
Primary results; data cutoff 23 December 2022; median dur						
Confirmed ORR by BICR: 49.0% (95% Cl, 39.0-59.1) vs. 56.0%						

⁵ The safety analysis set (SAS) was all randomized patients who received ≥1 dose of trastuzumab deruxtecan. ⁶ Drug-related TEAEs most commonly associated with drug discontinuation, as reported by the investigator, were ILD (5.9% vs. 8.0%) and pneumonitis (5.0% vs. 4.0%) in the. Drug-relatedTEAEs were associated with death in one patient in each arm; the cause of both deaths was adjudicated drug-related ILD.

Median D Median ti Estimated Median P Estimated Median O Estimated Biomarke & & &	oR: 16.8 me to ir d propo FS by B d PFS ra S: 19.5 d 12-mo er Analy Overall, Exon 19 At both amplific	3 month nitial res rtion of ICR: 9.9 nte at 12 months onth OS sis most (9 and 21 s 1 trastuz ation sta	s (95% CI, 6. sponse: 1.8 r responders months (95 months as (95% CI, 13. rate: 67% (95%) 3%) HER2 n substitution tumab deru atus in the t	4-NE)] vs. N months (ran maintainin % Cl, 7.4-NE determined 6-NE) vs. NE 55% Cl, 56-7 nutations we s in the kina xtecan dose rastuzumab	IE (95% CI, 8.3-NE), ge, 1.2-7.0) vs.1.6 m g a response at 12 m E) vs. 15.4 months (95% d by BICR: 45% (95% E (95% CI, 12.1-NE) 6) vs. 73% (95% CI, 55% ere exon 20 insertion se domain and exon es, tumour reductio deruxtecan 5.4 mg/k	onths (range, 1.2-11.2) oonths: 54.4% (95% Cl, 3 5% Cl, 8.3-NE) 5 Cl, 33-56) vs. 53% (95% 7-84) s in the kinase domain. 8 substitutions in the ex n was observed regard kg once every 3 weeks ar	87.6 to 68.5) vs. 64.1% (95% 6 Cl, 36-67) tracellular domain were als lless of HER2 mutation ty m.	Cl, 38.2-81.4). o observed. pe and HER2								
Currently	nationt	roporto	doutcomo	are not ave	ilabla	Pat	tient-reported outcon	nes								
Contentity,	patient	-reporte				FSN	10-MCBS version 1 1	(12)								
Scale	Int	Form	MG ST	MG		LSIN	Score calculation	(12) m	_	PM		Toxicity				FM
Original	NC	3	ORR (PR+CR) ≥40-<60% 2						-	N	IA	-	2			
	Due to the low level of evidence (single-arm study design) the adapted scale was not applied.															
						Risk of bia	as - study level (case s	eries) (13)								
	1.		2		3.	4.	5.	6.		7.		8.			9.	
Was the hypothesis/ aim/ objective of the study clearly stated?			Were the cases collected in more than one centre?		Were patients recruited consecutively?	Were the eligibility criteria (inclusion and exclusion criteria) for entry into the study clearly stated?	Did participants enter the study at similar point in the disease?	Was the intervention clearly described?	Were additional V interventions out (co-interventions) esta clearly described?		Were relevant outcome measures established a priori?		vs i?	Were outcome assess blinded to the intervention that patients received?		sessors ne hat ved?
	yes yes yes no ⁷ yes						yes	yes			yes		yes			
	10. 11. 12. 13. 14. 15.						15.	1	.6.	17.		18.				
Were the relevant outcomes measured using appropriate objective/ subjective methods?		nt d using tive/ ods?	Were the relevant outcomes measured before and after intervention?		Were the statistical tests used to assess the relevant outcomes appropriate?	Was the length of follow-up reported?	Was the loss to follow-up reported?	Did the study provide estimates of random variability in the data analysis of relevant outcomes?	rovide ndom e data evant ? Were adverse events reported? su su		Were the conclusions of the study supported by results?		the conclusions f the study rted by results? Were both com interest and sou support for the reported?		oeting rce of study	
	yes	yes yes yes		yes	no ⁸	yes	yes		yes			yes				
	_	_	_	_	_		Overall risk of bias: moderate		_	_	_	_		_	_	_
NICT		ultuial					Ongoing trials (14)					E ation at	a al at : :		un latio a	data
		r/trial na		Please see	above		Description					Estimat				
NCT0350	5710/ DE	ESTINY-I	Lungo1	A phase 2, HER2-over	multicentre, open-la -expressing or -muta	bel, 2-cohort study of tr ated, unresectable and/c	astuzumab deruxtecan (DS or metastatic NSCLC.	-8201a), an anti-HER2 a	ntibody dru	ıg conjugate	e, for		0)3/2024		

 ⁷ Baseline characteristics are heterogenous.
 ⁸ No information available regarding loss to follow-up.

NCT05246514/ DESTINY-Lung05	An open-label, single-arm, phase 2 study to evaluate the efficacy and safety of trastuzumab deruxtecan for patients with HER2-mutant metastatic NSCLC who have disease progression on or after at least one-line of treatment.	06/2024					
NCT03334617/ HUDSON	An open-label, multi-drug, biomarker-directed, multi-centre phase II umbrella study in patients with NSCLC, who progressed on an anti-PD-1/PD-L1 containing therapy.	09/2024					
NCT05048797/ DESTINY-Lung04	An open-label, randomized, multicentre, phase 3 study to assess the efficacy and safety of trastuzumab deruxtecan as first-line treatment of unresectable, locally advanced, or metastatic NSCLC harbouring HER2 Exon 19 or 20 mutations.	03/2027					
	Available assessments						
 In January 2021, NIHR pub No assessments were iden 	ished a Health Technology Briefing "Trastuzumab deruxtecan for HER2 mutant unresectable and/or metastatic non-squamous non-small ce tified via NICE, CADTH, ICER and G-BA.	ll lung cancer – second line" (15).					
	Other aspects and conclusions						
 In September 2023, the CHMP adopted a new indication for Enhertu® as monotherapy for the treatment of adult patients with advanced NSCLC whose tumours have an activating HER2 (ERBB2) mutation and who require systemic therapy following platinum-based chemotherapy with or without immunotherapy. In August 2022, the FDA granted accelerated approval to Enhertu® for adult patients with unresectable or metastatic NSCLC whose tumours have activating human epidermal growth factor receptor 2 HER2 (ERBB2) mutations, as detected by an FDA-approved test, and who I received a prior systemic therapy. DESTINY-Lungo2 (NCT04644237), is an ongoing, multicentre, multi-cohort, randomized, blinded, dose-optimization, phase 2 trial. Eligible patients were required to have unresectable or metastatic HER2-mutant non-squamous NSCLC with disease progression after 1 prior systemic therapy. Patients with a history of steroid dependent ILD/pneumonitis, clinically significant cardiac disease, clinica active brain metastases, and ECOG performance status >1 were excluded. The primary endpoint of DESTINY-Lungo2 is confirmed ORR by BICR is 49.0% (95% Cl, 39.0-59.1) and 56.0% (95% Cl, 41.3-70.0) in patients who received trastuzumab at a dose of 5.4 mg/kg and 6.4 mg/kg, respectively. Patient-reported outcome results are not available yet. The original ESMO-MCBS was applied, resulting in a final adjusted magnitude of clinical benefit of 2. Due to the low level of evidence (single-arm study design) the adapted scale was not applied. The risk of bias was considered moderate; it is increase by the heterogeneity of baseline characteristics and the fact that no information on loss to follow-up could be found. Beside the DESTINY-Lungo2 trial, one further ongoing phase 3 trial and three ongoing phase 2 trials, assessing the efficacy and safety of trastuzumab deruxtecan in NSCLC, were identified. Considering the small number of patients participating in							

First published: 10/2023 Last updated: 03/2024

Abbreviations: AE=adverse event, AJ=adjustment, ALK=anaplastic lymphoma kinase, BICR=blinded independent central review, C=comparator, CADTH=Canada's Drug and Health Technology Agency, CHF=congestive heart failure, CHMP=Committee for Medicinal Products for Human Use, CI=confidence interval, CNS=central nervous system, cORR=confirmed objective response rate, CR=complete response, DoR=duration of response, EGFR=epidermal growth factor receptor, EMA=European Medicines Agency, ESMO-MCBS= European Society of Medical Oncology – Magnitude of Clinical Benefit Scale, FDA=Food and Drug Administration, FM=final magnitude of clinical benefit grade, G-BA=Gemeinsamer Bundesausschuss, HER2=human epidermal growth factor receptor 2, HIV=human immunodeficiency virus, HR=hazard ratio, I=intervention, ICER=Institute for Clinical and Economic Review, IHC= immunohistochemistry, ILD=interstitial lung disease, Int.=intention, ISH=In Situ Hybridization, IVD=in-vitro-diagnostic, LVEF=left ventricular ejection fraction, MG=median gain, MI=myocardial infarction, n=number of patients, NE=not evaluable, NICE=National Institute for Health and Research, NSCLC=non-small cell lung cancer, NYHA=New York Heart Association, ORR=objective response rate, OS=overall survival, PD-1= Programmed Cell Death Protein 1, PE=primary endpoint, PFS=progression-free survival, PM=preliminary grade, PR=partial response, QoL=Quality of Life, RECIST=response evaluation criteria in solid tumours, SAE=serious adverse event, SAS=safety analysis set, ST=standard treatment, TEAE=treatment-emergent adverse event, ULN=upper limit of normal

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