## 1. ABSTRACT

Name of company:			
Boehringer Ingelheim			
Name of finished med product: Jardiance® 10 / 25 mg empagliflozin tablet Synjardy® 5 / 12.5 mg empagliflozin + 850 / metformin tablet Trajenta® 5 mg linagl Jentadueto® 2.5 mg li 850 / 1,000 mg metfor Name of active ingre	g 1,000 mg iptin tablet nagliptin + min tablet		
empagliflozin (ATC: A10 linagliptin (ATC: A10	A10BK03)		
Report date:	Study number:	Version/Revision:	Version/Revision date:
24 Feb 2022	1245-0187	1.0	unic.
Title of study:		® - CEE: Characteristics of patients	with Type 2 Diabetes
	A real -world	odern antidiabetic drugs. data collection of patient baseline cha omorbidities in Central Eastern Euro	
Keywords:	Type 2 diabete	es, SGLT2i, DPP4i, GLP-1 RA, treat	ment pattern
Rationale and background:	Cardiovascular Disease (CVD) is the most common cause of mortality in patients with Type 2 Diabetes (T2D). Also, chronic kidney disease (CKD) is associated with increased all-cause mortality, which is substantially higher in patients with a diagnosis of diabetes. Registry outcomes imply that patient characteristics might differ between patients initiating empagliflozin or other glucose lowering drugs.  The CORDIALLY® - CEE NIS was conducted to get insights into T2D patient characteristics when initiating different types of T2D treatments under routine conditions, including associated comorbidities (CVD, CKD), concomitant medications and the association of socioeconomic factors with treatment decisions.		

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Trajenta® 5 mg linagl	•		
Jentadueto® 2.5 mg li 850 / 1,000 mg metfor	~ .		
Name of active ingreed empagliflozin (ATC: Allo linagliptin linaglipti	<b>A</b> 10BK03)		
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24 Feb 2022	1245-0187	1.0	
Research question and objectives:	The primary objective was to describe and compare T2D patients' baseline characteristics when initiating either empagliflozin - or other SGLT2i, DPP4i or GLP-1 RA on top of current antidiabetic treatment by different HCP specialties in CEE countries.  Secondary objectives were  1. To describe the prevalence of comorbidities [prevalence of cardiovascular disease (CVD), chronic kidney disease (CKD)] in this T2D patient population at index date 1  2. To describe and compare the actual treatment uses at index date 1 in patients with and without established CVD  (Established CVD defined as acute myocardial infarction (AMI), cardiology intervention, ischemic heart disease (IHD), congestive heart failure (CHF), peripheral arterial disease (PAD), or stroke)  3. To describe the association of socioeconomic parameters with treatment decisions at index date 1  4. To assess the discontinuation rate, reasons for discontinuation and average duration of treatment for GLP-1 RA, DPP4i and SGLT2i after a follow up of approximately one year from the initial timepoint (= index date 2)		
Study design:	from medical rother SGLT2i,	onal, multi-country, multi-site study records of patients initiating treatmer DPP4i or GLP-1 RA in the time per other 2018 according to the approved	nt with empagliflozin or riod from September

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Report date:	Study	Version/Revision:	Version/Revision
24 Feb 2022	number: 1245-0187	1.0	date:
Setting:	(endocrinologi (Bulgaria, Cze participated in was performed order to secure	ast 2019 and January 2021, 177 medist, diabetologist or cardiologist) in fisch Republic, Hungary, Poland, Russ the non-interventional study CORD to reflect routine T2D care in the part representativeness of the T2D populat was included on 26 AUG 2019 and	ive CEE countries ian Federation) IALLY. Site selection articipating countries in lation.
	First patient first visit (FPFV = index date 1) was on 01 SEP 2018 and last patient last visit (LPLV = index date 2) was on 16 MAR 2021.		
Subjects and study size, including dropouts:	Patients could be included if all of the following criteria were met:  1. Written informed consent prior to participation  2. Female and male patients age ≥18 years  3. Patients with T2D diagnosis  4. Patients who have been newly initiated (first ever use) with empagliflozin or other SGLT2i, DPP4i or GLP-1 RA between September 2018 and December 2018 (study index date 1)  5. Patients have been naïve to treatment with empagliflozin or other SGLT2i, DPP4i or GLP-1 RA at study index date 1		

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empagliflozin (ATC: A	A10BK03)		
linagliptin (ATC: A10		Version/Revision:	Version/Revision
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24 Feb 2022	1245-0187	1.0	
	1. Patien 2. Patien 3. Patien study	ts age <18 years ts with diagnosis of other types of diabetes than T2D ts who do not provide written consent to the terms of the	
	It was planned to include data of approximately 4000 patients. Overall, 4083 patients have been screened. Of these, 4055 patients fulfilled all inclusion and exclusion criteria and had received a first prescription of a respective study medication and thus were included in Prescribed Patient Set (PPS).		
	3,618 patients of the PPS with a documentation at the study index date 2 could be included in the Full Analysis Set (FAS). Patients of FAS included before the protocol amendment needed an additional signed informed consent for the documentation at index date 2.		
Variables and data sources:	Existing patient data (medical chart review) previously collected by health care professionals during routine documentation in patients treated for T2D were the basis of data collection.		
	The following 1:	parameters were collected and asses	sed at study index date

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Report date:	Study	Version/Revision:	Version/Revision
24 Feb 2022	number: 1245-0187	1.0	date:
	1. Patien	t demographics (age, gender, height, weight, BMI, ethnicity)	
		since diagnosis of Type 2 Diabetes	
		al parameters relevant for T2D, CVI ) as valid on study index date 1	O, CKD assessment (see
	and co	rbidities like cardiovascular disease a morbidities like chronic kidney dise s at study index date 1	
	5. T2D m	nedication the treating physician new date 1	vly prescribed at study
	6. Conco	mitant T2D medications at study inc	lex date 1
	7. Conco	omitant CVD and CKD medications at index date 1	
8. Involv date 1		ement of other HCPs in treatment de	ecisions at study index
9. Releva		ant socioeconomic parameters (see below) at index date 1	
		g parameters were collected and assessed at study index date $\pm 2$ months after index date 1):	
	1. Status	s of T2D medication (continuation / discontinuation)	
2. If disc		ontinuation:	
a. stop		p date of initial (index date 1) T2D medication (if available)	
b. Rea		ason for therapy discontinuation	
		olvement of other HCPs in decision is continuation	for therapy

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Report date:	Study number:	Versio	n/Revision:	Version/Revision date:
24 Feb 2022	1245-0187	1.0		
	sites), Poland ( Thereof, 4055	28 sites) patients of data set:	- Violation of eligibi - Patient decision: 4 - No prescription of - Other reason: 9 pat	at (66 sites).  Patients of PPS had berefore made up the little form the made up the made
	Bulgaria: 345 patients (8.5% Czech Republie: 1221 patier Hungary: 256 patients (6.3% Poland: 876 patients (21.6% Russian Federation: 1357 pa	ats (30.1%) (6)		luded: sent for index date 2: 117 patients n for index date 2: 320 patients
	Bulgaria: 278 patients (7.7% Czech Republic: 1147 patier Hungary: 240 patients (6.6% Poland: 671 patients (18.5% Russian Federation: 1282 pa	its (31.7%)	Valid for FAS: 3618 patients	
	enrolled, 50.9% 0.7% were bladenean (SD) BM	% vs. 49. ck. Patie II of 32.	nere were slightly more male 1%. The great majority werents were in mean (SD) 63.19 (5.8) kg/m <sup>2</sup> is a hint that elertension was present in 84.	e non-black people, only (10.2) years old. A nrolled patients had to

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850 / 1,000 mg metfor	min tablet		
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Report date:	Study	Version/Revision:	Version/Revision
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24 Feb 2022	1245-0187	1.0	
		ked and 42.8% were physically active	
	*	o family history of early heart or kidr sk for developing fatal CVD resulted	•
		.5) (= high risk). Mean duration (SD	
	diagnosis until	date of registration amounted to 9.9	(6.9) years for PPS
		udy index date 1, 30.7% of PPS patie	ents had poorly
		betes with an HbA1c value ≥8.5%.	1
		ribed T2D medication was mainly en % of FAS), followed by DPP4i (28.29	
		GLT2i (14.4% of PPS and 14.8% of I	
		and 9.2% of FAS).	
		me(s): Baseline characteristics at T2	
		ICP specialties in CEE countries- (PPS)	
		ICPs were endocrinologists, diabetol	
		652, 2301 and 102 patients, respecti	
		prescribed by endocrinologists and d	1 0
		spectively, of their included patients.	
		out 80% of patients of each HCP spe	
		Further T2D medication. Diabetologispatients receiving concomitant insuli	
		luded by cardiologists were higher for	
		n share of patients enrolled by the otl	
modern T2D n cardiologists. I		gnificant difference in demographic o	
		nedication was observed in patients e	<u>-</u>
		In contrast, age, gender, and BMI wa ifferent between T2D medication in	
		sts and diabetologists. Both HCP spe	-
	1 RA for patie	nts with lowest mean age and highes	t mean BMI. Regarding
	time period fro	om T2D diagnosis until first prescrip	tion of modern T2D

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	medication grows Mean (SD) Hb and cardiologic respectively. Consider the A1c ≥8.5% HbA1c values and prescription of with known in hypertension, the early heart or a similar patient within the four tobacco smoking medication grows former or currows HCP specialty for patients of <50% each of had neither a find disease. Endoor T2D medication	th mean values of 6.0 years for patients received and 10.9 years for patients received A1c values in patients of endocrinologists amounted to 8.4% (1.3), 8.2% (1.2) ardiologists had the lowest share of 6' (19.6%), however 30.4% of their p. Most of patients with an HbA1c≥8 rempagliflozin irrespective of HCP s fluence on T2D were also analyzed: tobacco smoking, physical inactivity, address distribution regarding risk factors 'E table T2D medication groups. Among being was the least present one. More poups at each HCP specialty had never ent smokers. In nearly all T2D medication groups are than 50% of patients was physically inactive patients. The great amily history of early heart disease in the group with a family history of early about 30% versus about 20%.	ring 'Other SGLT2i'. logists, diabetologists 4), and 8.2% (1.4), patients in category patientshad missing 2.5% received a specialty. Risk factors Overweight, and family history for diabetologists had a 3MI' and 'hypertension' havioral risk factors, atients in all T2D or smoked than were eation groups at each dically inactive, except in and DPP4i with atest share of patients are of early kidney ge of patients in each

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24 Feb 2022	1245-0187	1.0	
	Patients of card score (9.4) that score (9.4) that Highly relevant 'HbA1c lower administration and 'HbA1c lo Diabetologists empagliflozin, other SGLT2i relevant for the reduction' (92. (81.3%) for DI of GLP-1 RA, SGLT2i as hig assessed as 'no diabetologists	orescription of GLP-1 RA or other Soldiologists with DPP4i prescription has nother T2D medication groups. In the other than the other test of the other test	e T2D medication was ple dosing / 93.3%) for GLP-1 RA, by endocrinologists. ion' (78.2%) for P4i, GLP-1 aRA, and for pectively, as highly cardiovascular risk side effect profile' atient with prescription (100.0%) for other ght loss' was mainly ologists and 90.7% of their T2D treatment
	Secondary Outcome: Burden of comorbidities (prevalence of CVD, CK and CVD/CKD risk factors) in this T2D patient population at index data—(PPS)  1485 patients (36.6%) of enrolled PPS patients had at least one CVD at study index date. Presence of concomitant CKD was evaluated by 2 way first, physicians had to state if CKD was present and second, according documented laboratory values eGFR or UACR. As per physician's assessment, 586 patients (14.5%) had a CKD. Identifying patients with		l at least one CVD at as evaluated by 2 ways: ad second, according to a per physician's

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Report date:	Study	Version/Revision:	Version/Revision
04 F 1 0000	number:		date:
24 Feb 2022	1245-0187	1.0 ocumented values for eGFR or UAC	
	HCP specialty percentage of Percentage of 20% for each laboratory value Secondary Outwith and without Established CV cardiology into congestive hear Regarding pattancording to Tomographic or without 'Perpercentage of RA. Analysis of Specialty shown endocrinologies Second frequent patients with Compagliflozin.  Additional analysis of the second frequent patients with Compagliflozin.	mg/g) increased to 886 (27.9%). Regret, cardiologists had the highest and dispatients with CVD, 91.2% and 28.5% patients with CKD as assessed by the HCP specialty. Identifying patients uses, resulted in an increase by about toome: Actual treatment use at study out established CVD) – (PPS)  V disease was defined as acute myoc ervention (PCI or CABG), ischemic art failure (CHF), peripheral arterial dient distribution 'with' or 'without established cycle empagliflozin. 48.9 ripheral arterial disease' received empatients irrespective of CVD had a pof T2D treatment according to CVD and that among patients with CVD erests and diabetologists more than 50% entry DPP4i was prescribed by these stablished CKD and the stablished CKD	abetologists the lowest %, respectively. e physician amounted to with CKD according to 10% for each specialty. index date 1 in patients  ardial infarction (AMI), heart disease (IHD), disease (PAD), or stroke. Stablished CVD's of patients with and 'CHF - Confirmed 10% of patients each with apagliflozin. Lowest rescription of GLP-1 (yes/no) and HCP prolled by a received empagliflozin. specialties. 75% of treated with

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Report date:	Study	Version/Revision:	Version/Revision
24 Feb 2022	number: 1245-0187	1.0	date:
	with CKD ider 41.2% of these DPP4i, respect of method of d Secondary Our treatment decir Generally, pate employment (c percentage of c Generally, abor insured; hower lowest percent private insuran highest percent percentage am and lowest per SGLT2i (6.6% private insuran share of privat group than in t All socioecond distributed bet endocrinologis patients enrolle significant diff	ntage received DPP4i (49.3%). Taking intified by the documented laboratory in evaluable patients had a prescription of evaluable patients had a prescription of evaluable patients had a prescription of tively. Lowest percentage of patients letermination received prescription of tecome: Association of socioeconomics is index date 1 – (PPS) itents receiving GLP-1 RA had the history in the prescription of employment (37.8%). The properties with prescription of employments with prescription of employments with prescription of employments with first prescription of energy and patients with first prescription of energy and patients with first prescription of energy and patients with first prescription of energy insured patients with first prescription of energy insured patients was higher in energy insured patients was higher	v values, 43.6% and on of empagliflozin and so with CKD irrespective of GLP-1 RA.  ic parameters with  ighest percentage of it had the lowest  on group were statutory pagliflozin had the ighest percentage of docrinologists had the its, with highest of GLP-1 RA (14.6%) rescription of other re of patients with In all HCP specialties, inpagliflozin medication it cantly different rolled by d family status in to this, no statistically naracteristics between

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linagliptin (ATC: A10	BH05)			
Report date:	Study	Version/Revision:	Version/Revision	
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24 Feb 2022	1245-0187	1.0		
		come: Discontinuation rate, reasons		
		on of treatment for GLP-1 RA, DPP-pproximately one year from the initial	_	
	$\frac{10110W \text{ dp of dp}}{\text{date 2}}$ – (FAS	• •	ii timeponit ( maex	
	which was pre- with discontine (12.3%) and en- treated by endo- was observed in diabetologists patients treated treatment ground	0.0%) of FAS discontinued the use of scribed at index date 1. Greatest and uation of initial T2D treatment was of mpagliflozin (7.9%), respectively. As occinologists, highest percentage of of in GLP-1 RA treatment group (21.0%) had the highest share in DPP4i group d by cardiologists, only 8.3% of patient p discontinued initial therapy.	d lowest share of patients observed for DPP4i Among FAS patients f discontinued patients 0%), whereas up (12.7%). Among FAS cients in empagliflozin	
	discontinued FAS patients, were 'lack of efficacy' and 'financial burden regarding co-payment', with 37.4% and 33.8%, respectively. 11.9% of patients discontinued initial T2D therapy due to adverse events. Analysis of reason according to participating countries revealed, that highest percentage of patients with 'lack of efficacy' and 'financial burden regarding co-payment' was reported by Czech Republic (71.1%) and Poland (55.8%), respectively. Endocrinologists selected for 42.0% of discontinued patients the reason 'financial burden regarding co-payment', whereas diabetologists terminated treatment of 41.8% of discontinued patients due to 'lack of efficacy'. For 79.5% of patients with treatment discontinuation no other physician was involved in the decision to terminate the respective T2D therapy. Primarily involved physicians were 'general practitioners' (10.5%). Analysis according to specialty of treating physician reveals, that endocrinologists and diabetologists mainly involved other 'endocrinologists', 18.2% and 80.0%, respectively. Diabetologists made the decision to discontinue the T2D treatment for about 87% of their		pectively. 11.9% of verse events. Analysis aled, that highest financial burden ublic (71.1%) and ected for 42.0% of regarding co-payment', 8% of discontinued ients with treatment the decision to volved physicians were a to specialty of treating blogists mainly involved tively. Diabetologists	

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Report date:	Study number:	Version/Revision:	Version/Revision date:	
24 Feb 2022	1245-0187	1.0		
	Mean time to discontinuation amounted to 19.8 months. Analysis by T2D medication showed that for patients with GLP-1 RA prescription the highest mean time was calculated (20.6 months). For these patients, a median time to discontinuation of 23.3 months was estimated. For all other T2D medications median time was not reached. For patients receiving empagliflozin, DPP4i, and other SGLT2i, calculated mean time to T2D therapy discontinuation was 19.5 months, 18.3 months, and 14.0 months, respectively.  Other analyses: Concomitant medications at study index date 1 – PPS Concomitant T2D medication as well as concomitant medication for CVD and CKD should be documented. For both types of medication, specified drug groups were listed and furthermore the use of 'other' drugs could be documented. For each patient, multiple concomitant medications could be selected.  Metformin was the most frequently used concomitant T2D medication irrespective of HCP specialty or modern T2D treatment, whereas pioglitazone and acarbose were the less frequently used concomitant T2D medication. Concomitant insulin was more frequently used by diabetologists than by endocrinologists or cardiologists.  Regarding concomitant CVD and CKD medications, patients of			
	frequently that frequently 'ant	ardiologists received all specified concomitant medications more equently than patients of endocrinologists or diabetologists. Most equently 'antihypertensive ACE inhibitor or ARBs' were used respective of HCP specialty or modern T2D medication.		

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Name of active ingredient: empagliflozin (ATC: A10BK03) linagliptin (ATC: A10BH05)			
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	Especially 'low dose aspirin' and 'beta blockers' were more frequently used by cardiologists than by endocrinologists or diabetologists.  Other analyses: Comorbidities and T2D treatment by HCP specialties - PPS  Cardiologists had the highest percentage of patients with each of the specified CVDs compared to endocrinologists or diabetologists. Greatest percentage of patients with about 60% of T2D patients treated by cardiologists had 'ischemic heart disease', which was recorded by about 34% and 20% of patients of endocrinologists and diabetologists, respectively.  Greatest percentage of patients with most of the specified CVDs were mainly treated with empagliflozin by endocrinologists and diabetologists, except for patients with peripheral arterial disease or stroke; slightly higher or nearly equal percentage of these patients were treated with DPP4i. Cardiologists prescribed empagliflozin mainly to patients with concomitant ischemic heart disease, myocardial infarction and peripheral arterial disease, whereas patients with congestive heart failure and stroke mainly received DPP4i. In case of cardiology intervention, cardiologists mostly used other SGLT2i as T2D therapy.  Safety analysis: Adverse events / adverse reactions  Within this observational study no adverse events (AE) had to be recorded in the eCRF. Only in case of discontinuation of T2D therapy due to adverse events, these had to be specified according to predefined categories. No severity or causality of the AE had to be recorded.		

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	However, it was questioned, if the adverse event had to be reported according to section 11 of the study protocol [causal relationship to Jardiance®, Synjardy®, Trajenta® or Jentadueto® (= Adverse Drug Reaction) or adverse event with fatal outcome or pregnancy].  A total of 361 patients discontinued their initial T2D therapy; for 43 patients (11.9%), occurrence of AE was stated as reason for discontinuation. Most of these patients reported 1 AE, 3 patients each experienced 2 AEs and 1 patient 4 AEs. 'Dysuria' was the most frequently recorded AE, it was reported by 11 patients (25.6%), followed by 'Balanitis and other genital infections' which was reported by 7 patients (16.3%), and 'Vulvovaginitis' and 'Urinary tract infection (including pyelonephritis and urosepsis)' reported by 5 patients each.  Five AEs were assessed as related to the T2D medication Jardiance®, Synjardy®, Trajenta®, or Jentadueto® by the physician and thus were reported according to section 11 of the study protocol: Dyspepsia, abdominal pain, vulvovaginitis, increased urination and cerebrovascular event. Cerebrovascular event was assessed as serious adverse drug reaction. Outcome was 'recovered/resolved' for ADRs dyspepsia, abdominal pain, vulvovaginitis and increased urination, and 'recovered/resolved with sequelae' for SADR cerebrovascular event. Three patients were affected: one patient reported 3 non-serious ADRs and one patient each reported a non-serious and a serious ADR.		

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850 / 1,000 mg metfor			
Name of active ingre empagliflozin (ATC:			
linagliptin (ATC: A10	· ·		
Report date:	Study number:	Version/Revision:	Version/Revision date:
24 Feb 2022	1245-0187	1.0	
	This observational study performed under routine conditions provided a good overview of characteristics of T2D patients in CEE countries. Five CEE countries with different political and economic situations participated and enrolled more than 4000 patients. T2D patients naïve to modern T2D treatment could be enrolled, thus patient characteristics and comorbidities as well as prescribed T2D medication is representative for CEE countries. Due to the great number of participating sites which were all medical practices only, a routine treatment in real-world non-hospital settings was depicted.  As T2D is a multi-factorial disease with several risk factors and mutual influence on other diseases, e.g. CVDs, patients were not only treated by diabetologists, but also by endocrinologists and cardiologists. The physicians of each specialty followed their routine in treatment of their T2D patients. It could be seen, that diabetologists and cardiologists have similar reasons for choosing a specific T2D drug, whereas cardiologists laid a greater focus on CVDs.  91%, 86% and 64% of diabetologists, endocrinologists and cardiologists, respectively, did not involve another physician in the treatment decision, showing that especially cardiologists seek support when treating a disease for which they are not specialized. This is underlined by the fact that mainly endocrinologists and diabetologists were involved by cardiologists. The results of this NIS emphasized that in routine care guideline recommendations were not the primary reason for treatment decision. Especially the high percentage of missing laboratory values observed by all HCP specialties shows that these laboratory parameters are not routinely monitored.  Although safety was not a part of the study design, in context with the		

## Boehringer Ingelheim Study report for non-interventional studies based on existing data BI Study Number 1245-0187

Page 22 of 119 c35855382-01

Name of company			
Name of company:			
Boehringer Ingelheim			
Name of finished me	dicinal		
<b>product:</b> Jardiance® 10 / 25 mg empagliflozin tablet			
Synjardy® 5 / 12.5 mg empagliflozin + 850 / metformin tablet			
Trajenta® 5 mg linagl	liptin tablet		
Jentadueto® 2.5 mg li 850 / 1,000 mg metfor			
Name of active ingredient: empagliflozin (ATC: A10BK03) linagliptin (ATC: A10BH05)			
Report date:	Study number:	Version/Revision:	Version/Revision date:
24 Feb 2022	1245-0187	1.0	
Marketing Authorisation Holder(s):	MAH: Boehringer Ingelheim International GmbH Binger Straße 173 55216 Ingelheim am Rhein, Germany  This study was initiated, managed and sponsored by: Boehringer Ingelheim RCV GmbH & Co KG Division Medicine/Medical Affairs Dr. Boehringer-Gasse 5-11 A-1121 Wien, Austria		
Names and affiliations of principal investigators:	Co-ordinating investigator:  Martin Prázný, MD, PhD, FRCP(Edin) associate professor 3rd Department of Internal Medicine, Diabetes center 1st Faculty of Medicine, Charles University and General Faculty Hospital in Prague, Czech Republic		
	A "List of principal investigators" of the 177 participating centres is available as stand-alone document.		