Dulaglutide Modified-Prescription-Event
Monitoring Study and network database
study: a multi-database collaborative
research program of observational studies
to monitor the utilisation and safety of
dulaglutide in the EU

First published: 29/07/2016 Last updated: 19/03/2024





# Administrative details

**EU PAS number** 

**EUPAS14445** 

Study ID

44227

**DARWIN EU® study** 

No

Study countries
Germany
Italy
☐ Netherlands
United Kingdom

### Study description

Dulaglutide is a glucagon-like peptide-1 receptor agonist (GLP-1 RA) indicated for the treatment of patients with type 2 diabetes mellitus (T2DM). This targeted surveillance study will be conducted in order to monitor the occurrence of certain medical conditions in patients using dulaglutide in the EU. The study will quantify the occurrence and describe the characteristics of these conditions during the first 12 months after starting dulaglutide. The conditions being monitored include acute pancreatitis, hypersensitivity, pancreatic and thyroid cancers, cardiac conduction abnormalities, gastrointestinal effects, and medication errors. Additionally, for subpopulations receiving dulaglutide where safety data are usually classified as "missing information," the distribution of these medical conditions will be described to determine if there are any differences compared to what is known for the target population. In order to assess the safety profile and utilisation of dulaglutide in the EU, a multidatabase post-authorisation safety study (PASS) program will be administered by the DSRU. The DSRU will conduct a Modified Prescription-Event Monitoring (M-PEM) study in England, and it will coordinate a multi-country collaborative research program to address common aims and objectives, using existing data from three European electronic health record (EHR) databases. Each country will independently conduct an observational study developed in accordance with aims and objectives from an agreed base protocol.

### Study status

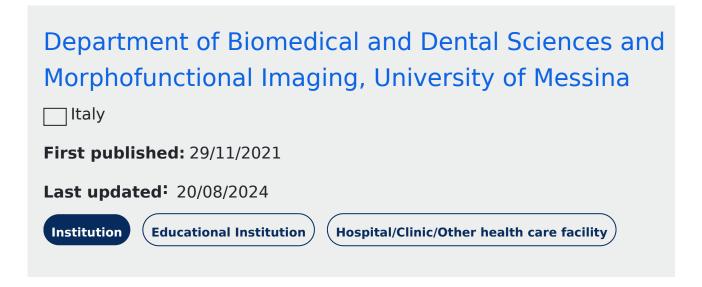
Finalised

# Research institutions and networks

### Institutions

# Drug Safety Research Unit (DSRU) United Kingdom First published: 10/11/2021 Last updated: 16/02/2024 Institution Not-for-profit ENCePP partner





# The PHARMO Institute for Drug Outcomes Research (PHARMO Institute) Netherlands First published: 07/01/2022 Last updated: 24/07/2024 Institution Laboratory/Research/Testing facility ENCePP partner

# Contact details

### **Study institution contact**

Elizabeth Lynn elizabeth.lynn@dsru.org

Study contact

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# **Primary lead investigator**

Saad Shakir

**Primary lead investigator** 

# Study timelines

Date when funding contract was signed

Planned: 14/12/2015

Actual: 14/12/2015

### Study start date

Planned: 01/01/2015

Actual: 01/01/2015

### Date of interim report, if expected

Planned: 01/08/2017

Actual: 28/02/2018

### **Date of final study report**

Planned: 31/03/2020

Actual: 19/04/2020

# Sources of funding

• Pharmaceutical company and other private sector

# More details on funding

Eli Lilly

# Study protocol

Dulaglutide MPEM and network study protocol abstract for EUPAS Register.pdf (111.34 KB)

# Regulatory

Was the study required by a regulatory body?

Yes

### Is the study required by a Risk Management Plan (RMP)?

EU RMP category 3 (required)

# Methodological aspects

# Study type

# Study type list

### **Study topic:**

Disease /health condition

Human medicinal product

### **Study type:**

Non-interventional study

### Scope of the study:

Drug utilisation

Safety study (incl. comparative)

### **Data collection methods:**

Combined primary data collection and secondary use of data

### Main study objective:

The overall aim of this multi-database PASS program is to assess and understand the utilisation and safety profile of dulaglutide in patients with Type II diabetes mellitus.

# Study Design

### Non-interventional study design

Cohort

Other

### Non-interventional study design, other

Prescription event monitoring

# Study drug and medical condition

### Name of medicine

**TRULICITY** 

### Medical condition to be studied

**Pancreatitis** 

Hypersensitivity

Thyroid cancer

Pancreatic carcinoma

Arrhythmia supraventricular

Conduction disorder

Gastrointestinal disorder

Medication error

# Population studied

### Short description of the study population

The study population will consist of new user patients with T2DM who were prescribed dulaglutide in the EU.

### Age groups

Children (2 to < 12 years)

Adolescents (12 to < 18 years)

Adults (18 to < 46 years)

Adults (46 to < 65 years)

Adults (65 to < 75 years)

Adults (75 to < 85 years)

Adults (85 years and over)

### **Special population of interest**

Hepatic impaired

Other

Pregnant women

Renal impaired

### Special population of interest, other

Patients with Pancreatitis, Hypersensitivity, Thyroid cancer, Pancreatic carcinoma, Arrhythmia supraventricular, Conduction disorder, Gastrointestinal disorder, Medication error

### **Estimated number of subjects**

10000

# Study design details

### **Outcomes**

To estimate the cumulative incidence in the first 12 months of treatment with dulaglutide of the following events of interest: (a) Acute pancreatitis (b) Hypersensitivity (c) Cardiovascular (CV) events and conduction abnormalities

(d) Gastrointestinal (GI) effects (e) Medication errors, For patients receiving dulaglutide: 1. To describe the baseline profile of patients 2. To explore time to onset of primary outcomes of interest and to explore predictors of risk 3. To describe the safety profile in sub-populations missing from the EU Risk Management Plan 4. To estimate the period prevalence of pancreatic and/or thyroid cancer

### Data analysis plan

To estimate the cumulative incidence of primary events of interest in the first 12 months after starting treatment: Crude annualised cumulative incidence (percent of total valid cohort exposed) and cumulative rate (according to 1000 patients exposed), with 95% binomial and poisson exact Confidence Intervals (CI) for events of interest will be calculated, respectively. Graphs of cumulative counts of events of interest, by month over the study period, will be examined for possible change in reporting over calendar time. Points that will be taken into account in the analysis are the baseline characteristics, possible confounding factors and background incidence of the selected events in the study population during the observation period regardless of duration of exposure to dulaglutide. The incidence rate of these events will also be explored by estimating hazard over time.

# **Documents**

### **Study results**

Dulaglutide MPEM and network study final report abstract for EUPAS Register.pdf(113.3 KB)

# Data management

### Data sources

### Data source(s)

PHARMO Data Network

German Pharmacoepidemiological Research Database

### **Data sources (types)**

Electronic healthcare records (EHR)

Other

### Data sources (types), other

Prescription event monitoring

# Use of a Common Data Model (CDM)

### **CDM** mapping

No

# Data quality specifications

### **Check conformance**

Unknown

### **Check completeness**

Unknown

### **Check stability**

Unknown

### **Check logical consistency**

Unknown

## Data characterisation

### **Data characterisation conducted**

No