

# NN2211-8841 Database Linkage Study to Evaluate the Risk of Medullary Thyroid Carcinoma

**First published:** 30/06/2026

**Last updated:** 30/06/2026

Study

Ongoing

## Administrative details

### EU PAS number

EUPAS1000001037

---

### Study ID

1000001037

---

### DARWIN EU® study

No

---

### Study countries

 United States

---

### Study description

This is a database linkage study utilizing real-world data (RWD) to determine whether certain medicines used to treat type 2 diabetes (T2D) and support weight management (called GLP-1 RAs (Glucagon-like peptide-1 receptor agonists )) are linked to an increased risk of a rare cancer called medullary thyroid carcinoma (MTC). The purpose of this study is to compare how often medullary thyroid cancer occurs in people taking these medicines versus those taking other similar treatments. This study will use dispensed prescription claims and State Cancer Registry data to assess the risk of MTC.

---

### **Study status**

Ongoing

## Research institutions and networks

### Institutions

[Novo Nordisk](#)

**First published:** 01/02/2024

**Last updated:** 01/02/2024

Institution

## Contact details

### **Study institution contact**

Clinical Transparency (dept. 2834) Novo Nordisk A/S  
pactadmin@novonordisk.com

### Study contact

[pactadmin@novonordisk.com](mailto:pactadmin@novonordisk.com)

### Primary lead investigator

Clinical Transparency (dept. 2834) Novo Nordisk A/S

### Primary lead investigator

## Study timelines

### Date when funding contract was signed

Planned: 31/03/2023

Actual: 31/03/2023

---

### Study start date

Planned: 31/12/2025

Actual: 31/12/2025

---

### Date of final study report

Planned: 31/03/2027

## Sources of funding

- Pharmaceutical company and other private sector

## Study protocol

[8841 protocol hma-ema redacted.pdf](#) (11.84 MB)

## Regulatory

**Was the study required by a regulatory body?**

No

---

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

Not applicable

Methodological aspects

Study type

Study type list

**Study topic:**

Disease /health condition

---

**Study type:**

Non-interventional study

---

**Scope of the study:**

Disease epidemiology

Drug utilisation

**Data collection methods:**

Secondary use of data

---

**Study design:**

This is a database linkage study with an active comparator new user study design.

### **Main study objective:**

The primary objectives are to:

□ estimate the incidence of MTC among adults (18 years of age and older) in the US (hereafter referred to as adult patients) who are exposed to LA GLP-1 RA therapies, as compared to adult patients initiating an active comparator medication using IRRs and 95% CIs.

□ characterize adult patients exposed to LA GLP-1 RA therapies, and active comparator cohorts using demographic and other clinical characteristics, including selected prescription medications dispensed during the baseline period, and duration of LA GLP-1 RA therapy use.

The secondary objective is to:

□ evaluate trends in the annual incidence of MTC in adult patients in the US for identification of any possible increase related to the introduction of LA GLP-1 RA therapies, into the US market.

## Study Design

### **Non-interventional study design**

Cohort

## Study drug and medical condition

### **Medicinal product name**

BYDUREON

VICTOZA

SAXENDA  
TRULICITY  
OZEMPIC  
WEGOVY  
RYBELSUS  
MOUNJARO

---

**Study drug International non-proprietary name (INN) or common name**

EXENATIDE  
LIRAGLUTIDE  
ALBIGLUTIDE  
DULAGLUTIDE  
SEMAGLUTIDE  
TIRZEPATIDE

---

**Anatomical Therapeutic Chemical (ATC) code**

(A10BJ01) exenatide  
exenatide  
(A10BJ02) liraglutide  
liraglutide  
(A10BJ04) albiglutide  
albiglutide  
(A10BJ05) dulaglutide  
dulaglutide  
(A10BJ06) semaglutide  
semaglutide  
(A10BX16) tirzepatide  
tirzepatide

---

**Medical condition to be studied**

## Population studied

### Short description of the study population

All eligible patients must fulfill the following requirements:

- $\geq 18$  years or older during the year of index (date of qualifying medication)
- In addition to index medication,  $\geq 1$  dispensed medication (any class) within 24 months prior to the index date<sup>1</sup>
- $\geq 1$  dispensed medication (any class) after the index date and within 12 months of index date (12-month post-index period)
- No evidence of cohort qualifying medication during 12-month before the index date
- Reside in the US, including the District of Columbia (DC) during the study period
- No missing values for year of birth

Patient eligibility for inclusion by study cohorts, in addition to the above criteria are captured below.

LA GLP-1 RA therapies exposed cohort:

- $\geq 1$  dispensed prescription for a LA GLP-1 RA therapy during the study patient selection period

T2D Active Comparator 1 Cohort:

- $\geq 1$  dispensed prescription for sodium-glucose transport protein 2 (SGLT2) or dipeptidyl peptidase IV

(DPP-4) inhibitors during the study patient selection period

T2D Active Comparator 2 Cohort:

- $\geq 1$  dispensed prescription for any antidiabetic medication, other than LA GLP-1 RA therapies, during

the study patient selection period

Overweight/Obesity Active Comparator Cohort:

□  $\geq 1$  dispensed prescription for any anti-obesity medication, other than LA GLP-1 RA therapies, during

the study patient selection period

Patients with a diagnosis of MTC in the linked SCR data before their index date will not be included in the study.

## Data management

### ENCePP Seal

The use of the ENCePP Seal has been discontinued since February 2025. The ENCePP Seal fields are retained in the display mode for transparency but are no longer maintained.

## Data sources

### Data source(s), other

IQVIA Longitudinal Prescription (LRx) Database, State Cancer Registries (SCRs), IQVIA Open Medical Claims (Dx), IQVIA PharMetrics® Plus (P+) Database

### Data sources (types)

[Administrative healthcare records \(e.g., claims\)](#)

[Cancer registry](#)

[Drug prescriptions](#)

## 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**

Not applicable