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Real world evidence in

# Diabetes

Lumanity and The PHARMO Institute delivers research insights into Diabetes.



## Disease & treatment characterization

- Patient demographics
- Diagnoses and symptoms
- Clinical characteristics
  - BMI
  - Blood pressure
  - Glycemic control [HbA1c]
  - Lipids [LDL, HDL]
  - Continuous glucose monitoring
- Smoking and alcohol consumption
- Complications and comorbidities e.g., cardiovascular disease, obesity, kidney disease

## Outcomes, burden of disease, & healthcare resource utilization

- Pharmacy (in- & out-patient)
  - Product (including: GLP1, SGLT2, biguanides, sulfonylureas, TZDs, DPP-4 etc.)
  - Date, dosage, quantity
  - Prescriber and costs
  - Adherence/persistence
- Multi-setting healthcare resource use
  - Admissions/discharges
  - Specialist visits (e.g., endocrinologists, ophthalmologist etc.)
  - Procedures
- Mortality

## Comparative effectiveness, safety, & tolerability

- Clinical characteristics
  - BMI
  - Blood pressure
  - Glycemic control [HbA1c]
  - Lipids [LDL, HDL]
- Mortality
- Malignancy, pathology
- Social demographics

## What makes us different

**High patient counts in Diabetes**

~352,000 patients with Diabetes

- ~22,000 Type 1
- ~290,000 Type 2
- ~40,000 Unclassified

**A unique, longitudinal, and clinically rich dataset**

- 2002 onwards (20+ years)
- Ability to follow through multiple healthcare settings
- Data regularly updated and expanded to include new patients and follow-up information

# About PHARMO

The PHARMO Institute is a **global leader** in drug safety and outcomes research

**The Netherlands has an excellent healthcare system** and is a major hub for clinical trials

Dutch data is **representative of Western Europe** and can be used in global studies as a robust proxy or complement to EU-5

PHARMO maintains an extensive network of data partners across NA and Europe. As a founding member of SIGMA Consortium, we can access diverse sources of **pan-European real world data (RWD) on >100 million patients**

Our capabilities and experience enable us to deliver on a **wide range of real world evidence (RWE) use cases**



## Why choose us?

We can be counted on for service and quality. We utilize proven processes supported by technologically advanced resources to produce high-quality services, with guaranteed satisfaction.

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