Lumanity | PHARMO
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Real world evidence in

Cardiovascular Disease

Lumanity and The PHARMO Institute delivers research insights into Cardiovascular Disease.



Disease & treatment characterization

Including but not limited to:

- Diagnoses and symptoms (International Classification of Primary Care [ICPC] codes)
  - Myocardial infarction
  - Angina pectoris
  - Stroke
  - Limb ischemia
- Test results (BMI, blood pressure, LDL and HDL, triglyceride and total cholesterol)
- Health indicators (smoking and physical fitness)

Treatment patterns, burden of disease, & healthcare resource utilization

- Drug utilization
  - Lipid lowering treatment patterns
  - Adherence/persistence
  - Co-medication (e.g., hypertensive, ,anti-thrombotic, and anti-diabetic treatments)
  - Medical device use
- Healthcare resource utilization
  - Medication use
  - GP visits (including emails, phone calls, and home visits)
  - Hospitalizations

Comparative effectiveness, safety, & tolerability

- Safety outcomes
  - Cardiovascular outcomes
- Drug effectiveness
  - LDL and HDL cholesterol
- Mortality, pathology
- Social demographics

What makes us different

High patient counts in Cardiovascular Disease

>800,000 Ischemic Heart Disease

- >80,000 Heart Failure
- >100,000 Stroke

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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