Lumanity | PHARMO
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Parkinson's Disease

Lumanity and The PHARMO Institute delivers research insights into Parkinson's Disease.

Disease & treatment characterization

- Diagnosis
- Pathology
- Social demographics
- Anti-Parkinson's drug prescriptions

Healthcare resource utilization

- Multi-setting healthcare resource use
- In- and out-patient drug exposure data
  - Levodopa
  - Dopamine agonists
  - MOA-B inhibitors
  - Anticholinergics
  - COMT inhibitors
- Malignancy, pathology
- Social demographics

Predictors of early-stage disease

- Longitudinal data allows analysis of early predictors of disease
  - Family history
  - MCI (Mild Cognitive Impairment)
  - Short-term memory loss
  - Head traumas
  - Comorbidities (e.g., Cardiovascular Disease, Depression, Anxiety, Psychosis)

What makes us different

High patient counts in Parkinson's Disease

>16,000 Parkinson's Disease

- 4-year average follow-up
- 20-year average look-back

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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