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Real world evidence in

Chronic Kidney Disease

Lumanity and The PHARMO Institute delivers research insights into Chronic Kidney Disease.



Clinical grouping/subtyping

- Ability to define clinically meaningful subgroups
- Ability to pathologically confirm diagnosis of rare kidney diseases (e.g., immunoglobulin A nephropathy)
- Characterize current treatment standards overall/per subgroup
- Characterize unmet needs in patients with rare kidney diseases
- Pediatric data are available

Disease & treatment characterization

- Patient demographics
- Diagnoses and symptoms
- Treatments (e.g., ACE inhibitors, ARBs)
- Co-medication (heart failure, diabetes)
- Comorbidities
- Clinical parameters, e.g.,
  - Blood pressure
  - UACR
  - HbA1c
  - Creatinine
  - eGFR
  - Proteinuria

Outcomes, burden of disease, & healthcare resource utilization

- Clinical labs
  - eGFR
  - Proteinuria
- End-stage renal disease
- Treatments and procedures
- Length of hospital & ICU stay
- Rate of hospital events (e.g., renal failure)
- High-cost medicines use
- Specialist visits
- Malignancy, pathology
- Social demographics

What makes us different

High patient counts in CKD

~90,000 CKD patients

- >20,000 Type 2 Diabetes
- >550 IgAN

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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