

# IADB.nl

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

**Last updated:** 30/01/2026

Data source

Human

Pharmacy dispensing records

## Administrative details

### Administrative details

**Data source ID**

6852

---

**Data source acronym**

IADB

---

**Data holder**

[University of Groningen](#)

---

**Data source type**

Pharmacy dispensing records

---

**Main financial support**

Funding by own institution

---

**Care setting**

Primary care – GP, community pharmacist level

---

### **Data source qualification**

If the data source has successfully undergone a formal qualification process (e.g., from the EMA, ISO or other certifications), this should be described.

No

---

### **Data source website**

<https://www.iadb.nl>

## Contact details

HJ Bos [h.j.bos@rug.nl](mailto:h.j.bos@rug.nl)



[h.j.bos@rug.nl](mailto:h.j.bos@rug.nl)

## Data source regions and languages

### **Data source countries**

Netherlands

---

### **Data source languages**

Dutch

English

---

### **Data source regions**

Drenthe

Flevoland

Fryslân

Groningen

Overijssel

## Data source establishment

### Data source established

01/01/1994

---

### Data source time span

**First collection:** 01/01/1994

The date when data started to be collected or extracted.

**Last collection:** 31/12/2025

If data collection in the data source has ceased, the date new records last entered the data source.

## Publications

### Data source publications

[Exposure to psychotropic drugs before and during pregnancy: What has changed over the last two decades?](#)

[Excess drug prescriptions during influenza and RSV seasons in the Netherlands: Potential implications for extended influenza vaccination](#)

[Baseline albuminuria predicts the efficacy of blood pressure-lowering drugs in preventing cardiovascular events](#)

[The population-based prescription database IADB.nl: its development, usefulness in outcomes research and challenges](#)

[Concordance assessment of self reported medication use in the Netherlands three generation Lifelines Cohort Study with the pharmacy database IADB.nl: The PharmLine Initiative](#)

Dispensing Patterns of Inhaled Asthma Medication Before and During COVID-19 Among Young Adults in the Netherlands

## Studies

List of studies that have been conducted using the data source

[EUROmediCAT: Safety of Medication Use in Pregnancy in Relation to Risk of Congenital Malformations](#)

[Real-World Effectiveness of COVID-19 Vaccines in the Netherlands: A Retrospective Cohort Study Using the Clone-Censor-Weight Approach Within the PharmLines Initiative](#)

## Data elements collected

The data source contains the following information

### **Disease information**

Does the data source collect information with a focus on a specific disease? This might be a patient registry or other similar initiatives.

No

---

### **Rare diseases**

Are rare diseases captured? In the European Union a rare disease is one that affects no more than 5 people in 10,000.

No

---

## **Pregnancy and/or neonates**

Does the data source collect information on pregnant women and/or neonatal subpopulation (under 28 days of age)?

Yes

---

## **Hospital admission and/or discharge**

No

---

## **ICU admission**

Is information on intensive care unit admission available?

No

---

## **Cause of death**

Not Captured

---

## **Prescriptions of medicines**

Not Captured

---

## **Dispensing of medicines**

Captured

---

## **Dispensing vocabulary**

ATC

---

## **Advanced therapy medicinal products (ATMP)**

Is information on advanced therapy medicinal products included? A medicinal product for human use that is either a gene therapy medicinal product, a somatic cell therapy product or a tissue engineered products as defined in Regulation (EC) No 1394/2007 [Reg (EC) No 1394/2007 Art 1(1)].

No

---

## **Contraception**

Is information on the use of any type of contraception (oral, injectable, devices etc.) available?

Yes

---

### **Indication for use**

Does the data source capture information on the therapeutic indication for the use of medicinal products?

Not Captured

---

### **Medical devices**

Is information on medicinal devices (e.g., pens, syringes, inhalers) available?

No

---

### **Administration of vaccines**

Yes

---

### **Procedures**

Does the data source capture information on procedures (e.g., diagnostic tests, therapeutic, surgical interventions)?

Not Captured

---

### **Healthcare provider**

Is information on the person providing healthcare (e.g., physician, pharmacist, specialist) available?  
The healthcare provider refers to individual health professionals or a health facility organisation licensed to provide health care diagnosis and treatment services including medication, surgery and medical devices.

Yes

---

### **Clinical measurements**

Is information on clinical measurements (e.g., BMI, blood pressure, height) available?

No

---

### **Genetic data**

Are data related to genotyping, genome sequencing available?

Not Captured

---

### **Biomarker data**

Does the data source capture biomarker information? The term “biomarker” refers to a broad subcategory of medical signs ( objective indications of medical state observed from outside the patient), which can be measured accurately and reproducibly. For example, haematological assays, infectious disease markers or metabolomic biomarkers.

Not Captured

---

### **Patient-reported outcomes**

Is information on patient-reported outcomes (e.g., quality of life) available?

No

---

### **Patient-generated data**

Is patient-generated information (e.g., from wearable devices) available?

No

---

### **Units of healthcare utilisation**

Are units of healthcare utilisation (e.g., number of visits to GP per year, number of hospital days) available or can they be derived? Units of healthcare utilisation refer to the quantification of the use of services for the purpose of preventing or curing health problems.

No

---

### **Unique identifier for persons**

Are patients uniquely identified in the data source?

Yes

---

### **Diagnostic codes**

Not Captured

---

### **Medicinal product information**

Captured

---

### **Medicinal product information collected**

Brand name

Dosage regime

Dose

Formulation

Strength

---

### **Medicinal product vocabulary**

Z-index (G-standard)

---

### **Quality of life measurements**

Not Captured

---

### **Lifestyle factors**

Not Captured

---

### **Sociodemographic information**

Captured

---

### **Sociodemographic information collected**

Age

Gender

Quantitative descriptors

Population Qualitative Data

## **Population age groups**

Paediatric Population (< 18 years)

Preterm newborn infants (0 - 27 days)

Term newborn infants (0 - 27 days)

Infants and toddlers (28 days - 23 months)

Children (2 to < 12 years)

Adolescents (12 to < 18 years)

Adults (18 to < 46 years)

Adults (46 to < 65 years)

Elderly ( $\geq$  65 years)

Adults (65 to < 75 years)

Adults (75 to < 85 years)

Adults (85 years and over)

---

## **Estimated percentage of the population covered by the data source in the catchment area**

$\pm 60\%$

---

## **Description of the population covered by the data source in the catchment area whose data are not collected (e.g., people who are registered only for private care)**

Regional sub-set - The Northern and Eastern part of the country, but representative for the whole of the Netherlands

## **Family linkage**

### **Family linkage available in the data source permanently or can be created on an ad hoc basis**

Permanently

---

## Family linkage available between the following persons

Mother-child

## Population

### Population size

3835479

---

### Active population size

1144519

## Population by age group

Age group	Population size	Active population size
Paediatric Population (< 18 years)	3091668	146614
Infants and toddlers (28 days - 23 months)	483809	20020
Children (2 to < 12 years)	1491394	69913
Adolescents (12 to < 18 years)	1116465	56681
Adult and elderly population ( $\geq 18$ years)	18083139	997905

## Median observation time

**Median time (years) between first and last available records for unique individuals captured in the data source**

2.00

---

**Median time (years) between first and last available records for unique active individuals (alive and currently registered) captured**

2.00

## Data flows and management

### Access and validation

**Governance details**

Documents or webpages that describe the overall governance of the data source and processes and procedures for data capture and management, data quality check and validation results (governing data access or utilisation for research purposes).

<https://www.iadb.nl/>

**Biospecimen access**

Are biospecimens available in the data source (e.g., tissue samples)?

Yes

---

**Biospecimen access conditions**

IADB.nl is linked to Lifelines in the Pharmlines Initiative

---

**Access to subject details**

Can individual patients/practitioners/practices included in the data source be contacted?

No

---

### **Description of data collection**

The data is sent to us by the pharmacists on a monthly basis.

## Event triggering registration

### **Event triggering registration of a person in the data source**

Practice registration

---

### **Event triggering de-registration of a person in the data source**

Loss to follow up

---

### **Event triggering creation of a record in the data source**

Patient getting a prescription

## Data source linkage

### **Linkage**

Is the data source described created by the linkage of other data sources (prelinked data source) and/or can the data source be linked to other data source on an ad-hoc basis?

Yes

---

### **Linkage description, possible linkage**

Linkage to Lifelines. Linkage is done by the CBS ([www.cbs.nl](http://www.cbs.nl)) that act as a TTP.

## Linked data sources

**Pre linked**

Is the data source described created by the linkage of other data sources?

No

---

**Data source, other**

Lifelines (<https://lifelines.nl>)

---

**Linkage strategy**

Deterministic

---

**Linkage variable**

date of birth, gender, postal code (4 digits)

---

**Linkage completeness**

94% of the patients can be linked to the CBS, of that 80% can be linked to Lifelines.

## Data management specifications that apply for the data source

**Data source refresh**

Yearly

---

**Informed consent for use of data for research**

Other

---

**Possibility of data validation**

Can validity of the data in the data source be verified (e.g., access to original medical charts)?

No

---

### **Data source preservation**

Are records preserved in the data source indefinitely?

Yes

---

### **Approval for publication**

Is an approval needed for publishing the results of a study using the data source?

Yes

---

### **Informed consent, other**

There is a committee to evaluate requests for data access

---

### **Data source last refresh**

06/01/2023

## **Common Data Model (CDM) mapping**

### **CDM mapping**

Has the data source been converted (ETL-ed) to a common data model?

No