

IADB.nl

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Data source

Human

Pharmacy dispensing records

Administrative details

Administrative details

PURI

<https://redirect.ema.europa.eu/resource/6852>

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

Main

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.

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:](#)

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

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

3745059

Active population size

1044357

Population by age group

Age group	Population size	Active population size
Paediatric Population (< 18 years)	791513	132844
Children (2 to < 12 years)	479747	65954
Adolescents (12 to < 18 years)	390276	52469
Adult and elderly population (≥ 18 years)	3176682	915693

Median observation time

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

5.50

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

10.20

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) 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