

Landspatientregisteret (National Patient Register)

First published: 13/10/2022

Last updated: 17/10/2024

Data source

Human

Hospital discharge records

Hospital outpatient visit records

Hospital inpatient records

Emergency care discharge records

Specialist ambulatory care records

Administrative details

Administrative details

Data source ID

1111181

Data source acronym

LPR (NPR)

Data holder

Danish Health Data Authority

Data source type

Hospital discharge records

Hospital outpatient visit records
Hospital inpatient records
Emergency care discharge records
Specialist ambulatory care records

Main financial support

National, regional, or municipal public funding

Care setting

Secondary care – specialist level (ambulatory)
Hospital inpatient care
Hospital outpatient care

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://sundhedsdatastyrelsen.dk/da/registre-og-services/om-de-nationale-sundhedsregistre/sygdomme-laegemidler-og-behandlinger/landspatientregisteret>

Data source regions and languages

Data source countries

Denmark

Data source languages

Danish

Data source establishment

Data source established

15/06/1976

Data source time span

First collection: 01/01/1977

The date when data started to be collected or extracted.

Publications

Data source publications

<https://www.esundhed.dk/Dokumentation/DocumentationExtended?id=5>

Studies

List of studies that have been conducted using the data source

An Active Surveillance Study to Monitor the Safety of Abrocitinib Among Real-World Patients with Atopic Dermatitis (AD) in the European Union (EU)
(B7451084)

Nested case-control study evaluating effectiveness of immunization of girls and women of childbearing potential with GARDASIL(TM)/GARDASIL(TM) 9 against juvenile-onset recurrent respiratory papillomatosis (JoRRP) in Sweden, Denmark, and Norway (V503-095)

Postauthorisation Safety Study (PASS) of Avatrombopag and Haematological Malignancies in Patients With Primary Immune Thrombocytopenia

Post-Authorization Safety Study to Assess the Effectiveness of the Newly Implemented Risk Minimization Measures for Topiramate: Drug Utilization Study

Associations between Cardiac Resynchronization Therapy and Clinical Outcomes According to the Atrial Fibrillation Status in Patients with Heart Failure with Reduced Ejection Fraction

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.

Yes

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

Yes

ICU admission

Is information on intensive care unit admission available?

Yes

Cause of death

Not Captured

Prescriptions of medicines

Not Captured

Dispensing of medicines

Not Captured

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?

No

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

No

Procedures

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

Captured

Procedures vocabulary

Other

Procedures vocabulary, other

Local coding including: ICD-10, NOMESCO Classification of Surgical Procedures, SNOMED, NPU

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.

No

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.

Yes

Unique identifier for persons

Are patients uniquely identified in the data source?

Yes

Diagnostic codes

Captured

Diagnosis / medical event vocabulary

ICD-10

Other

Diagnosis / medical event vocabulary, other

ICD-8

Medicinal product information

Not Captured

Quality of life measurements

Not Captured

Lifestyle factors

Not Captured

Sociodemographic information

Captured

Sociodemographic information collected

Age

Sex

Other

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

100%

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)

All Danish residents with hospital encounters are captured.

Population

Population size

8085603

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.esundhed.dk/Dokumentation/DocumentationExtended?id=5>

Biospecimen access

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

No

Access to subject details

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

No

Description of data collection

Data is submitted to data owners through a contracted vendor from both public and private hospitals.

Event triggering registration

Event triggering registration of a person in the data source

Birth

Other

Event triggering registration of a person in the data source, other

If you are not born in Denmark, you will enter the database on the first hospital encounter

Event triggering creation of a record in the data source

Each hospital encounter triggers a data source record.

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

It is possible to link NPR to Other Danish registers through the personal identification number. Examples of Other Danish national health care registers are:

- The Register of Medicinal Products Statistics (Contains patient-level Data on all prescription drugs filled by patients at community pharmacies)
- The Medical Birth Register (The register is an enrichment of Data already recorded in the National Patient Register and compiles relevant information on pregnancies that has led to childbirth in Denmark at home or in a hospital. This register includes linkage between infant, mother, and father)
- The Cause of Death Register (Contains information on date and cause of death).
- The Danish Civil Registration System (CPR) (contains basic information on everybody that has a civil registration number, e.g., emigration status, marriage status, whether person is alive or dead)

Linked data sources

Pre linked

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

No

Data source, other

The Cause of Death Register (Contains information on date and cause of death).

Linkage strategy

Deterministic

Linkage variable

Personal identification number

Linkage completeness

100%

Pre linked

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

No

Data source, other

The Danish Civil Registration System (CPR) (contains basic information on everybody that has a civil registration number, e.g., emigration status, marriage status, whether person is alive or dead)

Linkage strategy

Deterministic

Linkage variable

Personal identification number

Linkage completeness

100%

Pre linked

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

No

Data source, other

The Medical Birth Register (The register is an enrichment of Data already recorded in the National Patient Register and compiles relevant information on pregnancies that has led to childbirth in Denmark at home or in a hospital. This register includes linkage between infant, mOther, and father)

Linkage strategy

Deterministic

Linkage variable

Personal identification number

Linkage completeness

100%

Pre linked

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

No

Data source, other

The Register of Medicinal Products Statistics (Contains patient-level Data on all prescription drugs filled by patients at community pharmacies)

Linkage strategy

Deterministic

Linkage variable

Personal identification number

Linkage completeness

100%

Data management specifications that apply for the data source

Data source refresh

Monthly

Informed consent for use of data for research

Required for intervention studies

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?

No

Common Data Model (CDM) mapping

CDM mapping

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

No