

# Danish Health Care Registries

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Data source

Human

Hospital discharge records

Other

Pharmacy dispensing records

Population registry

## Administrative details

### Administrative details

#### Data source ID

1111216

#### Data source acronym

DHCR

#### Data holder

[Danish Health Data Authority](#)

#### Data source type

Hospital discharge records

Other

Pharmacy dispensing records

Population registry

## Data source type, other

Central Person Register

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## Care setting

Hospital inpatient care

Hospital outpatient care

Primary care – GP, community pharmacist level

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## 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

## Contact details

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## Data source regions and languages

### Data source countries

Denmark

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### Data source languages

Danish

## Data source establishment

## **Data source time span**

**First collection:** 01/01/1997

The date when data started to be collected or extracted.

## **Publications**

### **Data source publications**

[The Danish Civil Registration System as a tool in epidemiology](#)

[Data Resource Profile: The Danish National Prescription Registry](#)

[The Danish National Patient Registry: a review of content, data quality, and research potential](#)

## **Studies**

### **List of studies that have been conducted using the data source**

[Silent Symptoms: The Comparative Risk of Developing Sexual Dysfunction after Treatment Initiation with Antidepressants](#)

## **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

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### **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

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### **Pregnancy and/or neonates**

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

Yes

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

Yes

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### **ICU admission**

Is information on intensive care unit admission available?

No

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### **Cause of death**

Not Captured

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### **Prescriptions of medicines**

Captured

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### **Prescriptions vocabulary**

ATC

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## **Dispensing of medicines**

Captured

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## **Dispensing vocabulary**

ATC

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## **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

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## **Contraception**

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

No

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## **Indication for use**

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

Not Captured

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## **Medical devices**

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

No

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## **Administration of vaccines**

No

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## **Procedures**

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

Not Captured

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### **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

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### **Clinical measurements**

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

No

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### **Genetic data**

Are data related to genotyping, genome sequencing available?

Not Captured

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### **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

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### **Patient-reported outcomes**

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

No

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### **Patient-generated data**

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

No

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### **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

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### **Unique identifier for persons**

Are patients uniquely identified in the data source?

Yes

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### **Diagnostic codes**

Captured

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### **Diagnosis / medical event vocabulary**

ICD-10

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### **Medicinal product information**

Captured

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### **Medicinal product information collected**

Brand name

Dose

Formulation

Package size

Strength

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### **Medicinal product vocabulary**

ATC

Other

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**If 'other,' what vocabulary is used?**

Nordic article number (VNR)

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**Quality of life measurements**

Not Captured

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**Lifestyle factors**

Not Captured

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**Sociodemographic information**

Captured

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**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)

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

100%

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**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)**

Anyone with a Danish residency are automatically covered by data capture by the national registers that provide data for the data source described here

## Family linkage

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

Ad hoc

## Population

**Population size**

6800000

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## Active population size

5400000

## Data flows and management

### Access and validation

#### Biospecimen access

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

No

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#### Access to subject details

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

No

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#### Description of data collection

Data collection for the national registers that provide data for the described data source, is the responsibility of the National Health Data Authority. Hospital data originate from electronic health records systems in all Danish hospitals. Filled prescriptions are reported from all danish pharmacies

## Event triggering registration

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

Any hospital encounter results in data being recorded in the national registers. Similarly, any filled prescription results in a record in the national prescription register

## 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

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## Linkage description, pre-linked

Linkage by unique person identifier

## Linked data sources

### Pre linked

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

No

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### Data source, other

As our OMOP ETL is gradually expanded, we expect to be able to include additional Danish health registers into the data source. This could e.g. be the national causes of death register

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### Linkage strategy

Deterministic

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### Linkage variable

cpr-number

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### Linkage completeness

Complete

**Pre linked**

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

Yes

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**Data source, other**

The Central Person Register

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**Linkage strategy**

Deterministic

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**Linkage variable**

cpr-number

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**Linkage completeness**

Complete

**Pre linked**

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

Yes

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**Data source, other**

The National Patient Register

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**Linkage strategy**

Deterministic

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**Linkage variable**

cpr-number

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**Linkage completeness**

Complete

**Pre linked**

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

Yes

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**Data source, other**

The Register of Pharmaceutical Sales

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**Linkage strategy**

Deterministic

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**Linkage variable**

cpr-number

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**Linkage completeness**

Complete

Data management specifications that apply for the data source

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

Not Required

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### **Possibility of data validation**

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

No

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### **Data source preservation**

Are records preserved in the data source indefinitely?

No

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### **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?

Yes

### **CDM Mappings**

#### **CDM name**

Sentinel

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#### **CDM website**

<https://www.sentinelinitiative.org/methods-Data-tools/sentinel-common-Data-model>

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### **Data source ETL status**

Completed

**CDM name (other)**

Other

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**Data source ETL status**

Completed

**CDM name**

OMOP

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**CDM website**

<https://www.ohdsi.org/Data-standardization/>

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**Data source ETL CDM version**

5.4

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**Data source ETL status**

In progress