

# Odense Pharmacoepidemiological Database

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

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Data source

Human

Administrative healthcare records (e.g., claims)

## Administrative details

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#### PURI

<https://redirect.ema.europa.eu/resource/48326>

#### Data source ID

48326

#### Data source acronym

OPED

#### Data holder

[University of Southern Denmark \(SDU\)](#)

#### Data source type

Administrative healthcare records (e.g., claims)

## **Main financial support**

Funding by own institution

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## **Care setting**

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

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### **Data source regions**

Syddanmark

## Data source establishment

## Data source established

15/06/1990

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## Data source time span

**First collection:** 01/08/1990

The date when data started to be collected or extracted.

**Last collection:** 01/08/2021

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

# Publications

## Data source publications

Pottegård A, Henriksen DP, Madsen KG, Hellfritsch M, Damkier P, Stage TB. Change in International Normalized Ratio Among Patients Treated With Dicloxacillin and Vitamin K Antagonists. *JAMA*. 2015 Jul 21;314(3):296-7.

Jensen HK, Brabrand M, Vinholt PJ, Hallas J, Lassen AT. Hypokalemia in acute medical patients: risk factors and prognosis. *Am J Med*. 2015 Jan;128(1):60-7.e1. doi: 10.1016/j.amjmed.2014.07.022. Epub 2014 Aug 12. PubMed PMID: 25107385

Dall M, Primdahl A, Damborg F, Nymark T, Hallas J. The association between use of serotonergic antidepressants and perioperative bleeding during total hip arthroplasty--a cohort study. *Basic Clin Pharmacol Toxicol*. 2014 Sep;115(3):277-81. doi: 10.1111/bcpt.12218. Epub 2014 Mar 14. PubMed PMID: 24548749

Hallas J, Hellfritsch M, Rix M, Olesen M, Reilev M, Pottegård A. Odense Pharmacoepidemiological Database: A Review of Use and Content. *Basic Clin Pharmacol Toxicol*. 2017 May;120(5):419-425.

Rathe J, Andersen M, Jarbøl DE, dePont Christensen R, Hallas J, Søndergaard J. Generic Switching and Non-Persistence among Medicine Users: A Combined Population-Based Questionnaire and Register Study. PLoS One. 2015 Mar 16;10(3):e0119688. doi: 10.1371/journal.pone.0119688. eCollection 2015. PubMed PMID: 25775472, PubMed Central PMCID: PMC4361595

## Studies

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

Evaluation of the Use of Nepafenac in Selected European Populations

Risk of Skin Cancer and Lymphoma in Users of Topical Tacrolimus, Pimecrolimus, and Corticosteroids: Protopic JOint European Longitudinal Lymphoma and skin cancer Evaluation (JOELLE) Study

Risk of Skin Cancer and Lymphoma in Users of Topical Tacrolimus, Pimecrolimus, and Corticosteroids (JOELLE)

DRUG UTILISATION AND SAFETY STUDY OF MYSIMBA/CONTRACE IN EUROPE AND THE UNITED STATES (NB-451 DUS)

## 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.

Yes

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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?

Yes

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### **Cause of death**

Captured

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### **Cause of death vocabulary**

ICD-10

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### **Prescriptions of medicines**

Not Captured

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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?

Yes

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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**

Yes

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## **Procedures**

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

Captured

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### **Procedures vocabulary**

ICD-10

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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.

Captured

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### **Biomarker data vocabulary**

Other

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## **Biomarker vocabulary, other**

NPU

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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.

Yes

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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**

Active ingredient(s)

Brand name

Formulation

Package size

Strength

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## **Medicinal product vocabulary**

ATC

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## **Quality of life measurements**

Not Captured

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## **Lifestyle factors**

Not Captured

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## **Sociodemographic information**

Not Captured

# 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%. Description of population age is not available for specific age groups requested. Age distribution of the region of Southern Denmark population is available upon request.

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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)**

Regional sub-set - Data capture is restricted to Funen county (pop 480.000) during 1990-2006 and Region of Southern Denmark (pop 1.2 million) since 2007.

## Population

**Population size**

1600000

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**Active population size**

1200000

## 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?

Yes

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## **Description of data collection**

Prescription data are recorded as part of co-payment processing. All regional residents, irrespective of age, are covered. Updated data are transferred from the Regional office on a monthly basis and transferred to our database after quality check.

# Event triggering registration

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

Other

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

First prescription redeemed if regional resident.

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

Emigration

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

Redeeming a prescription at a community pharmacy

# 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, possible linkage

Nearly all health-related databases in Denmark share the same person-identifier as OPED (CPR number). Data can be linked after approval from the Data protection Board.

## 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

Data source can link with virtually all national Danish data sources, including Danish Patient Registry and Cancer registry.

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### Linkage strategy

Deterministic

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### Linkage variable

CPR

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### Linkage completeness

100%

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## Data management specifications that apply for the data source

**Data source refresh**

Monthly

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

Other

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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)?

Yes

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**Data source preservation**

Are records preserved in the data source indefinitely?

Yes

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**Approval for publication**

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

Yes

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**Informed consent, other**

There is a committee to evaluate requests for data access

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**Data source last refresh**

15/08/2021

## Common Data Model (CDM) mapping

**CDM mapping**

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

No