

# Lääketoimitukset (Kanta - Reseptikeskus)

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

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Data source

Human

Pharmacy dispensing records

## Administrative details

### Administrative details

#### Data source ID

1111191

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#### Data holder

[Social Insurance Institution of Finland \(Kela\)](#)

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#### Data source type

Pharmacy dispensing records

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#### Main financial support

National, regional, or municipal public funding

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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

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### **Data source website**

<https://aineistokatalogi.fi/catalog/studies/ff551f4e-6842-4732-962d-74499a339c46/datasets/0d173c62-57ff-4dfe-8bdd-1065e63217b9>

## Contact details

General Email [tietoaineistot@kela.fi](mailto:tietoaineistot@kela.fi)



[tietoaineistot@kela.fi](mailto:tietoaineistot@kela.fi)

## Data source regions and languages

### **Data source countries**

Finland

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### **Data source languages**

Finnish

## Data source establishment

### **Data source established**

01/05/2010

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### **Data source time span**

**First collection:** 01/05/2010

The date when data started to be collected or extracted.

# Publications

## Data source publications

<https://www.kanta.fi/en/statistics>

## Studies

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

[Effectiveness of Pfizer-BioNTech COVID-19 mRNA vaccine against severe illness in the elderly in Finland \(RWE\\_COVID19\\_2023\)](#)

[PaTernal exposure to vAlproate, further iNvestiGation on the risk of NeuroDevelopmental Disorders \(NDD\) and Major Congenital Malformation \(MCM\) in Offspring: A Non-Interventional Post-Authorization Safety Study \(TANGO\)](#)

## 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)?

No

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

No

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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?

Yes

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## **Indication for use**

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

Captured

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## **Indication vocabulary**

Not coded (Free text)

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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.

No

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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.

Yes

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### **Unique identifier for persons**

Are patients uniquely identified in the data source?

Yes

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### **Diagnostic codes**

Not Captured

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### **Medicinal product information**

Captured

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### **Medicinal product information collected**

Brand name

Formulation

Strength

Package size

Active ingredient(s)

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### **Medicinal product vocabulary**

ART 57

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**

Captured

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### **Sociodemographic information collected**

Age

Sex

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)**

Lääketoimitukset is a national register where all Finnish electronic prescription medication dispensed in community pharmacies are available. Electronic prescriptions became mandatory in Finland 1.1.2017.

## Population

**Population size**

5500000

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**Active population size**

5500000

## 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.kanta.fi/jarjestelmakehittajat/reseptin-toiminnalliset-maarittelyt>

## **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 is encounter-based. When a patient has electronic prescription medicine dispensed from a community pharmacy, the necessary data from the dispensation will be transferred automatically to Lääketoimitukset

# Event triggering registration

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

Birth

Immigration

Residency obtained

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

Data collection is encounter-based. When a patient has electronic prescription medicine dispensed from a community pharmacy, the necessary data from the dispensation will be transferred automatically to Lääketoimitukset

# 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**

It is possible to link Lääketoimitukset to all Other Finnish registers through the personal identification number. As such it is not possible to provide a full list but here are some examples of Other commonly linked registers for research purposes:

- Care Register for Health Care (Contains information on secondary care health care visits, diagnoses and procedures)
- The Medical Birth Register (The register has relevant information on pregnancies that has lasted at least 22 weeks or the infant's birth weight was at least 500 g in Finland at home or in a hospital. This register includes linkage between infant and mOther)
- The Cause of Death Register (Contains information on date and cause of death)
- Population Information System (Contains information on date of birth and death, immigration and emigration)

Link to the Finnish Data Resource Catalog (mainly in Finnish):

<https://aineistokatalogi.fi/catalog>

## **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**

Care Register for Health Care (Contains information on secondary care health care visits, diagnoses and procedures)

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**Linkage strategy**

Deterministic

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**Linkage variable**

Personal identification number

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**Linkage completeness**

100%

**Pre linked**

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

No

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**Data source, other**

Population Information System (Contains information on date of birth and death, immigration and emigration)

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**Linkage variable**

Personal identification number

---

**Linkage completeness**

100%

**Pre linked**

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

No

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**Data source, other**

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

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**Linkage variable**

Personal identification number

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**Linkage completeness**

100%

**Pre linked**

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

No

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**Data source, other**

The Medical Birth Register (The register has relevant information on pregnancies that has lasted at least 22 weeks or the infant's birth weight was at least 500 g in Finland at home or in a hospital. This register includes linkage between infant and mOther)

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**Linkage variable**

Personal identification number

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**Linkage completeness**

100%

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)?

No

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**Data source preservation**

Are records preserved in the data source indefinitely?

No

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**Data source preservation length (years)**

20 years

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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**

Option to opt out

## Common Data Model (CDM) mapping

**CDM mapping**

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

No