TaUH patient cohort (FinOMOP)

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Data source **Human** **Hospital inpatient records**

Hospital outpatient visit records

Administrative details

Administrative details

Data source ID

1111135

Data source acronym

FinOMOP_Tampere

Data holder

Tampere University Hospital

Data source type

Hospital inpatient records

Hospital outpatient visit records

Main financial support

National, regional, or municipal public funding

Care setting

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://www.pirha.fi/

Contact details

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Data source regions and languages

Data source countries

Finland

Data source languages

Finnish

Data source regions

Pirkanmaa

Data source establishment

Data source established

01/05/2007

Data source time span

First collection: 15/01/1991

The date when data started to be collected or extracted.

Publications

Data source publications

Maximal surgical effort increases the risk of postoperative complications in the treatment of advanced ovarian cancer

Continuation of fluoropyrimidine treatment with S-1 after cardiotoxicity on capecitabine- or 5-fluorouracil-based therapy in patients with solid tumours: a multicentre retrospective observational cohort study

Improved survival after implementation of ultra-radical surgery in advanced epithelial ovarian cancer: Results from a tertiary referral center

Prospective centralized repeated resectability assessment during first-line treatment in 812 Finnish colorectal cancer patients with liver metastases (subgroup in the RAXO-study NCT01531621)

Studies

List of studies that have been conducted using the data source

DARWIN EU® - RR Childhood hypertension and sartans prescribing in children

DARWIN EU® - Feasibility of studies on early (pre-symptomatic) stages of type 1 diabetes mellitus in the DARWIN EU® network

DARWIN EU® - Enabling pregnancy and mother-child research in DARWIN EU® Data Network - PeriNet

DARWIN EU® - Capturing suicidality and depression related variables in databases

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

Captured

Prescriptions vocabulary

ATC

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)].

Yes

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

Finnish version of Nomesco

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?

Yes

Genetic data

Are data related to genotyping, genome sequencing available?

Captured

Genetic data vocabulary

Other

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

Biomarker data vocabulary

Other

Biomarker vocabulary, other

Kuntaliitto laboratory codes, local laboratory codes

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

Medicinal product information

Captured

Medicinal product information collected

Active ingredient(s)

Medicinal product vocabulary

ATC

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)

Neonate

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 (≥ 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%. All inhabitants of the region are entitled to public healthcare, specialized and emergency health care. Catchment population for secondary care is >500,000 and for tertiary care >900,000.

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)

In the patient registry of the Tampere University Hospital since 2007, there are a total of 887,142 electronic medical records, of which 766,329 patients are still alive. Very few people use only private services.

Population

Population size

887142

Active population size

766329

Population by age group

Age group	Population size	Active population size
Paediatric Population (< 18 years)	154711	153991

Age group	Population size	Active population size
Term newborn infants (0 – 27 days)	17828	17552
Infants and toddlers (28 days – 23 months)	21270	21171
Children (2 to < 12 years)	70259	70077
Adolescents (12 to < 18 years)	45354	45191
Adults (18 to < 46 years)	287181	282921
Adults (46 to < 65 years)	178371	162412
Elderly (≥ 65 years)	266879	166078
Adults (65 to < 75 years)	109297	86290
Adults (75 to < 85 years)	97025	61292
Adults (85 years and over)	60557	18496

Median observation time

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

4.36

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

4.54

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).

FinOMOP_data_governance

English (696.7 KB - PPTX)

View document

Biospecimen access

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

Yes

Biospecimen access conditions

We are in close collaboration with the Finnish Clinical Biobank Tampere (FCBT). Finnish biobanks have their own permit application process (https://site.fingenious.fi/en/).

FCBT can collect all kinds of biospecimen in different phases of the treatment based on patients' consent (100,000 active consents). Ready to go samples:50,000 DNA, serum, and plasma samples; hundreds of fresh frozen tumor samples; hundreds of SCF-samples, and 3,4M FFPE samples.

Access to subject details

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

No

Description of data collection

All patients who visit the hospital are recorded in our IT system (Oberon). The hospital has been completely paperless since 2010. After that all visits, all procedures and given treatments have been recorded systematically in the electronic format. We use more than hundred different operational IT systems. For secondary use, the individual level data is pooled into a data lake. Data relevant for research is then collected through an ETL-process into a single research SQL data base. The OMOP mapping and ETL processes are built in collaboration with the FinOMOP Consortium; other Finnish University Hospitals and the Institute of Health and Wellbeing.

Event triggering registration

Event triggering registration of a person in the data source

Birth

Start of treatment

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

Death

Event triggering creation of a record in the data source

first event

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?

No

Linked data sources

Pre linked

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

No

Data source, other

Data from many nation-wide health registries such as drug purchase, visual impairment, cancer, retirement due to a disease registries and many others, can be combined to the Tampere University Hospital patient registry. The combination needs a specific research plan and data permit.

Linkage strategy

Combination

Linkage variable

social security number

Linkage completeness

High completeness

Data management specifications that apply for the data source

Data source refresh

Monthly

Informed consent for use of data for research

Not Required

Possibility of data validation

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

Yes

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

Data source last refresh

25/07/2025

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

OMOP

CDM website

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

Data source ETL CDM version

5.4

Data source ETL frequency

6,00 months

Data source ETL status

Completed