

# Clinical Data Warehouse of the Bordeaux University Hospital

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Data source

Human

Other

## Administrative details

### Administrative details

**Data source ID**

1111112

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**Data source acronym**

CDWBordeaux

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**Data holder**

[Bordeaux University Hospital \(CHU de Bordeaux\)](#)

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**Data source type**

Other

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**Data source type, other**

Electronic health records

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## Main financial support

Funding by own institution

National, regional, or municipal public funding

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## Care setting

Hospital inpatient care

Hospital outpatient care

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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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## Description of the qualification

undefined

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## Data source website

[Bordeaux University Hospital](#)

## Contact details

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# Data source regions and languages

## Data source countries

France

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## Data source languages

French

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## Data source regions

Nouvelle-Aquitaine

# Data source establishment

## Data source established

08/04/2022

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## Data source time span

**First collection:** 15/01/2010

The date when data started to be collected or extracted.

# Publications

## Data source publications

[Linkage of Hospital Records and Death Certificates by a Search Engine and Machine Learning](#)

[The benefit of augmenting open data with clinical data-warehouse EHR for forecasting SARS-CoV-2 hospitalizations in Bordeaux area, France](#)

[Appropriateness of psychotropic drug prescriptions in the elderly: structuring tools based on data extracted from the hospital information system to understand physician practices.](#)

# Studies

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

DARWIN EU® Characterization of patients with chronic hepatitis B and C

DARWIN EU® Multiple myeloma: patient characterisation, treatments and survival in the period 2012-2022

DARWIN EU® Drug utilization study of prescription opioids

DARWIN EU® - Co-prescribing of endothelin receptor antagonists (ERAs) and phosphodiesterase-5 inhibitors (PDE-5is) in pulmonary arterial hypertension (PAH)

DARWIN EU® Treatment patterns of drugs used in adult and paediatric population with systemic lupus erythematosus

DARWIN EU® Drug utilisation study of medicines with prokinetic properties in children and adults diagnosed with gastroparesis

DARWIN EU® Natural history of dermatomyositis (DM) and polymyositis (PM) in adults and paediatric populations

DARWIN EU® Age specific incidence rates of RSV related disease in Europe

DARWIN EU® Monitoring prescription of essential medicines administered in ICU

DARWIN EU® Overall survival in patients with locally advanced or metastatic non-small cell lung cancer treated with selected immunotherapies as first line of treatment

DARWIN EU® - Chondrosarcoma: patient demographics, treatments, and survival in the period 2010-2023

DARWIN EU® - Characterising interstitial lung disease in Europe

DARWIN EU® - Paracetamol prescribing and paracetamol overdose in Europe: a descriptive analysis of trends and patient characteristics

DARWIN EU® - Prescription trends of ketamine and esketamine

DARWIN EU® - Monitoring prescription of medicines for public health emergencies at risk of shortages

DARWIN EU® - RR1 Drug Utilisation Study of prescription opioids

DARWIN EU® - Monitoring prescription of essential medicines administered in ICU

DARWIN EU® - Drug Utilisation Study on Antibiotics in the 'Reserve' category of the WHO AWaRe classification of antibiotics for evaluation and monitoring of use

DARWIN EU® - Drug Utilisation Study on Antibiotics in the 'Watch' category of the WHO AWaRe classification of antibiotics for evaluation and monitoring of use

DARWIN EU® - Drug utilisation study in individuals with cystic fibrosis in Europe

DARWIN EU® - Characterisation of individuals with cystic fibrosis in Europe

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

DARWIN EU® - Incidence, period prevalence, and characterisation of individuals with paediatric pulmonary arterial hypertension

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

DARWIN EU® - Multiple myeloma: patient characterisation, treatments, and survival in the period 2012–2024

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

DARWIN EU® - Characterisation of systemic treatments for the management of  
ovarian cancer

DARWIN EU® - Neonatal seizures: Incidence, prevalence, patient  
characterisation, and treatments in European countries

DARWIN EU® - Assessment of immunoglobulin use in clinical practice

## 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**

Not coded (Free text)

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## **Prescriptions of medicines**

Captured

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## **Prescriptions vocabulary**

ATC

other

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## **Prescriptions vocabulary, other**

UCD (french inhospital drug classification) ; Free-text prescription after in-hospital

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## **Dispensing of medicines**

Captured

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## **Dispensing vocabulary**

ATC

other

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## **Dispensing vocabulary, other**

UCD (french inhospital drug classification)

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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?

Yes

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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**

Other

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### **Procedures vocabulary, other**

CCAM (french terminology)

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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?

Yes

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### **Genetic data**

Are data related to genotyping, genome sequencing available?

Captured

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### **Genetic data vocabulary**

Other

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### **Genetic data vocabulary, other**

Free-text

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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**

Free-text

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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**

Active ingredient(s)

Batch number

Brand name

Dose

Route of administration

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## **Medicinal product vocabulary**

ATC

Other

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

UCD (french inhospital drug classification)

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## **Quality of life measurements**

Captured

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## **Quality of life measurements vocabulary**

Not coded (Free text)

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## **Lifestyle factors**

Captured

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## **Lifestyle factors**

Alcohol use

Tobacco use

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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)

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)

Adult and elderly population ( $\geq 18$  years)

Adults (18 to < 65 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**

Unknown : It's difficult to assess a healthcare facility's coverage level. However, the Bordeaux University Hospital is one of France's largest hospitals, and the largest in the Nouvelle-Aquitaine region, with a focus on medicine / surgery and obstetrics care.

\*It was not possible to differentiate preterm / term newborn

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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)**

Data from the Bordeaux University Hospital Information System are integrated into an initial EDS in i2b2 format. From this first EDS, data are integrated into a second EDS in OMOP format, including: patient data, visit data, prescription and drug administration data, diagnostic data, procedure data, biology data and free-text documents.

## Family linkage

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

Ad hoc

## Population

## Population size

2523965

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## Active population size

450267

## Population by age group

Age group	Population size	Active population size
Paediatric Population (< 18 years)	503487	84100
Term newborn infants (0 – 27 days)	47973	5054
Infants and toddlers (28 days – 23 months)	86074	14071
Children (2 to < 12 years)	239359	41017
Adolescents (12 to < 18 years)	130081	23958
Adults (18 to < 46 years)	928311	151696
Adults (46 to < 65 years)	512922	97224
Elderly ( $\geq$ 65 years)	579245	117247
Adults (65 to < 75 years)	261336	56711
Adults (75 to < 85 years)	200320	44916
Adults (85 years and over)	117589	15620

## Median observation time

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

0.05

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

0.95

## 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 are integrated daily from the hospital information system into an CDW in i2b2 format.

Data integrated in i2b2 are loaded every 4 months into an CDW in OMOP-CDM format. 80% of data is mapped to standard terminologies.

### 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**

Hospital visit (in and outhospital)

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

Other

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

Patient opposition to secondary use of data

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

Hospital encounter (in-hospital and out-hospital)

# 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**

French data registry for out of hospital death

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## **Linkage description, possible linkage**

Probabilistic matching based on identity traits

(<https://doi.org/10.1093/jamiaopen/ooab005>)

# 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**

French death registry (open data)

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## **Linkage strategy**

Probabilistic

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## **Linkage variable**

Last names, First Name, Birth date, Gender, Birth location, Birth country, Date of death, Last visit date

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## **Linkage completeness**

The recall and precision of our linkage strategy is 97.5% and 99.97%  
2/3 of known deaths are derived from this external database.

# Data management specifications that apply for the data source

## **Data source refresh**

Quarterly

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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?

No

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### **Data source preservation length (years)**

15 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**

General non-opposition to secondary use of health data

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### **Data source last refresh**

06/06/2026

## 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**

i2b2

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**CDM website**

<https://community.i2b2.org/wiki/display/BUN/i2b2+Common+Data+Model+Documentati>

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**Data source ETL frequency**

0,03 months

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**Data source ETL status**

Completed

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**Data source ETL specifications (link)**

<https://gitub.u-bordeaux.fr/scossi910e/ehden-bordeaux/-/wikis/home>

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**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 frequency**

3,00 months

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## **Data source ETL status**

In progress

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## **Data source ETL specifications (link)**

<https://gitub.u-bordeaux.fr/scossi910e/ehden-bordeaux-etl-omop/-/wikis/home>