

HULAFE

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Data source

Human

Other

Administrative details

Administrative details

Data source ID

1111139

Data source acronym

HULAFE

Data holder

[The Health Research Institute Hospital La Fe \(IIS La Fe\)](#)

Data source type

Other

Data source type, other

Electronic health records

Main financial support

European public funding

National, regional, or municipal public funding

Care setting

Hospital inpatient care

Hospital outpatient care

Primary care – GP, community pharmacist level

Primary care – specialist level (e.g. paediatricians)

Secondary care – specialist level (ambulatory)

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

[HULAFE Big Data Platform](#)

Contact details

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Main

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Data source regions and languages

Data source countries

Spain

Data source languages

Spanish

Data source regions

Valencia

Data source establishment

Data source established

06/08/1980

Data source time span

First collection: 06/08/1980

The date when data started to be collected or extracted.

Publications

Data source publications

[Predicting morbidity by local similarities in multi-scale patient trajectories](#)

[Machine learning model from a Spanish cohort for prediction of SARS-COV-2 mortality risk and critical patients](#)

[Temporal variability analysis reveals biases in electronic health records due to hospital process reengineering interventions over seven years](#)

[Decision support through risk cost estimation in 30-day hospital unplanned readmission](#)

[Driving Type 2 Diabetes Risk Scores into Clinical Practice: Performance Analysis in Hospital Settings](#)

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

other

RxNorm

Prescriptions vocabulary, other

Spanish National Drug Codes

Dispensing of medicines

Captured

Dispensing vocabulary

ATC

other

RxNorm

Dispensing vocabulary, other

Spanish National Drug Codes

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?

Yes

Indication for use

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

Captured

Indication vocabulary

ICD-10

ICD-9

Other

Indication vocabulary, other

Snomed

Medical devices

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

Yes

Administration of vaccines

Yes

Procedures

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

Captured

Procedures vocabulary

ICD-10

ICD-9

Other

Procedures vocabulary, other

Snomed

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

GO

HGNC

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

HPO

Other

Biomarker vocabulary, other

LOINC

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

ICD-9

SNOMED

Medicinal product information

Captured

Medicinal product information collected

Active ingredient(s)

Dosage regime

Dose

Package size

Route of administration

Medicinal product vocabulary

ATC

Other

RxNorm

If 'other,' what vocabulary is used?

Spanish National Drug Codes

Quality of life measurements

Captured

Quality of life measurements vocabulary

EQ5D

Not coded (Free text)

other

Quality of life measurements, other

ECOG Performance Status Scale; Barthel

Lifestyle factors

Captured

Lifestyle factors

Alcohol use

Diet

Other

Tobacco use

Sociodemographic information

Captured

Sociodemographic information collected

Age

Country of origin

Education level

Gender

Health area

Marital status

Pharmaceutical copayment

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 (≥ 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%

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)

The Region of Valencia (East Spain) is one of the 17 Autonomous Communities of Spain, located in central and south-eastern Iberian Peninsula. The region is divided into three provinces (Alicante, Castellón and Valencia) and thirty-four counties. The largest city in the Region is its capital: Valencia.

The Valencia Region (Comunitat Valenciana) has 4.7 million inhabitants. The territory is divided into 24 geographical areas (“health departments”) with about 200,000 inhabitants each. The Health Department Valencia-La Fe is one of the health provision areas belonging to the Health Care System of the Region of Valencia (Spain). This Health Department covers a concrete geographical area located in the south area of the city of Valencia and coordinates all the healthcare services provided in the territory, from primary to tertiary care, covering 300,000 inhabitants directly and a catchment area adding up to 515,000 persons. The Department has a central management based in The University and Polytechnic La Fe Hospital of Valencia, the biggest reference hospital in the region and one of the most important centers in Spain.

The EHR of La Fe Hospital has access to data from both primary and specialized care, containing data from the clinical history of the patient and data from hospital admissions. In addition to these citizens, the hospital takes care of

other patients from other departments who come here due to its reference activity, from other Autonomous Communities or passing foreigners. In these cases, the EHR includes data only from specialized care. It is important to mention that records from the Health Department Valencia-La Fe are the main source of routinely collected data.

The University and Polytechnic La Fe Hospital of Valencia is one of the biggest public hospitals in Spain belonging to the National Health System (NHS). The NHS is composed by both the Central Government Administration and the autonomous regions public healthcare managements working in coordina

Family linkage

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

Ad hoc

Population

Population size

2349646

Active population size

1817622

Population by age group

Age group	Population size	Active population size
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Paediatric Population (< 18 years)	244539	200658
Preterm newborn infants (0 - 27 days)	11	16
Term newborn infants (0 - 27 days)	197	267
Infants and toddlers (28 days - 23 months)	20912	13169
Children (2 to < 12 years)	121650	98150
Adolescents (12 to < 18 years)	101769	89056
Adults (18 to < 46 years)	724066	582470
Adults (46 to < 65 years)	617989	534015
Elderly (\geq 65 years)	2105107	500479
Adults (65 to < 75 years)	259861	197445
Adults (75 to < 85 years)	236914	138965
Adults (85 years and over)	266277	164069

Median observation time

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

2.13

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

7.84

Data flows and management

Access and validation

Biospecimen access

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

Yes

Biospecimen access conditions

Approval from the ethics committee is needed to ensure that the project can be carried out (ethical and scientific analysis) and that the material is available. It is also necessary to present the CV of the PI promoting the study. The IISLAFE Biobank is a public biobank.

<https://www.iislafe.es/en/services/platforms-cientifico-tecnologicas/biobanco/>

Access to subject details

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

Yes

Description of data collection

Information from the electronic health record. The hospital's IT department creates views of the corporate systems. These views feed the database in OMOP.

Event triggering registration

Event triggering registration of a person in the data source

Birth

Disease diagnosis

Start of treatment

Event triggering creation of a record in the data source

Belonging to the Valencia La Fe Health Department or receiving health care services.

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

Linkage description, pre-linked

Valencia City Council publishes environmental information such as: i) hourly aire quality data; ii)passive dosimetry and iii) noise sensor

Linked data sources

Pre linked

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

Yes

Data source, other

Datasets | datos.gob.es

Linkage variable

Hourly aire quality data,passive dosimetry (NO2),noise sensor

Linkage completeness

We have never done this kind of analysis but we expect a high percentage of more than 70%.

Data management specifications that apply for the data source

Data source refresh

Monthly

Informed consent for use of data for research

Required for intervention studies

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?

No

Data source last refresh

25/04/2023

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

5.3

Data source ETL status

Completed