The Valencia Health System Integrated Database

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Data source | Human | Hospital outpatient visit records | Other | Primary care medical records | Registration with healthcare system

Administrative details

Administrative details

PURI

https://redirect.ema.europa.eu/resource/1111174

Data source ID

1111174

Data source acronym

VID

Data holder

The Foundation for the Promotion of Health and Biomedical Research of Valencia Region (FISABIO)

Data source type

Hospital outpatient visit records

Other

Primary care medical records

Registration with healthcare system

Data source type, other

VID also contains hospital discharge records, emergency care discharge records, birth registry, congenital anomaly registry, perinatal mortality registry, pharmacy prescription and dispensing records, vaccine records, and microbiology records .

Main financial support

European public funding

Funding by own institution

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

https://www.san.gva.es/es/web/investigacio

Contact details

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Data source regions and languages

Data source countries

Spain

Data source languages

Catalan

English

Spanish

Data source establishment

Data source established

01/01/2008

Data source time span

First collection: 01/01/2008

The date when data started to be collected or extracted.

Publications

Data source publications

Data Resource Profile: The Valencia Health System Integrated Database (VID)

Studies

List of studies that have been conducted using the data source

A post-authorisation/post-marketing observational study to evaluate the association between exposure to AZD1222 and safety concerns using existing secondary health data sources (COVID-19)

An Observational Post-Authorization Safety Study to Assess the Safety of Ad26.COV2.S Using European Healthcare Data through VAC4EU (COVID-19)

Strengthening Use of Real-World Data in Medicines Development: Metadata for Data Discoverability and Study Replicability (MINERVA)

mRNA-1273-P910: Clinical course, outcomes and risk factors of myocarditis and pericarditis following administration of Moderna vaccines targeting SARS-CoV-2.

SAFETY-VAC: Network of Data Sources for Vaccine Safety Evaluation

ADEPT: The utilisation of antiseizure medications in pregnant women, other women of childbearing potential, and men: a multi-database study from 7 European countries

SAFETY-VAC: Background incidence estimation of flares of pre-existing chronic diseases using pan-European electronic healthcare data sources. (SAFETY VAC)

DARWIN EU® - CGRP antagonists - Treatment patterns and users characteristics

ADEPT: feasibility of estimating the risk of adverse pregnancy, neonatal and child outcomes following either in utero ASM exposure through the mother, or peri-conceptional ASM exposure through the father

SAFETY-VAC: Phenotype proposal and rates of immunocompromised populations in real-world data sources.

DARWIN EU® - Incidence of suicidality in patients with specific chronic skin conditions

VAC4EU Postauthorisation Safety Study of BIMERVAX® Vaccine in Europe

VAC4EU Postauthorisation Effectiveness Study of BIMERVAX® Vaccine in Europe

A Post-Authorisation Safety Study (PASS) of ABRYSVO (Respiratory Syncytial Virus Stabilised Prefusion Subunit Vaccine) in Pregnant Women and their Offspring in a Real World Setting in Europe and UK

A post-authorisation safety study of ABRYSVO in immunocompromised, or renally or hepatically impaired adults aged 60 years and older in a real world setting in Europe and UK

DARWIN EU® - Characterising the use of JAK inhibitors in Europe: a Drug Utilisation Study

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.

Yes

Disease details (other)

the REDMIVA is the table where microbiological surveillance network information is collected, including the information about COVID-19 test results.

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

Captured

Cause of death vocabulary

ICD-10-CM

ICD-9-CM

Other

Cause of death vocabulary, other

Note: The ICD-10-CM used is the ICD10-ES (Spanish clinical modification)

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)].

No

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-CM

ICD-9-CM

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

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?

Not Captured

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

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?

Yes

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-CM

ICD-9-CM

Medicinal product information

Captured

Medicinal product information collected

Active ingredient(s)

Dosage regime

Formulation

Package size

Strength

Medicinal product vocabulary

ATC

Other

If 'other,' what vocabulary is used?

national vocabulary

Quality of life measurements

Not Captured

Lifestyle factors

Captured

Lifestyle factors

Alcohol use

Tobacco use

Sociodemographic information

Captured

Sociodemographic information collected

Age

Country of origin

Deprivation index

Gender

Health area

Socioeconomic status

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

97%

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 data source contains all general population covered by the universal public health care system. About 97% of the population of the region it is covered by the public care

Family linkage

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

Permanently

Family linkage available between the following persons

Mother-child

Population

Population size

5600000

Active population size

5000000

Population by age group

Age group	Active population size
Paediatric Population (< 18 years)	461000
Preterm newborn infants (0 – 27 days)	2700
Term newborn infants (0 – 27 days)	33000
Infants and toddlers (28 days – 23 months)	99000
Children (2 to < 12 years)	521000
Adolescents (12 to < 18 years)	263000
Adults (18 to < 46 years)	679000
Adults (46 to < 65 years)	748000
Elderly (≥ 65 years)	996000
Adults (65 to < 75 years)	517000
Adults (75 to < 85 years)	332000
Adults (85 years and over)	147000

Median observation time

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

12.00

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

10.00

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.gva.es/es/inicio/procedimientos?id_proc=14962

Biospecimen access

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

No

Access to subject details

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

No

Description of data collection

Each table of the data source has their own mechanism of collection and recording of data. Some of the EHR are created by the physicians, some of them by administrators, documentalists, etc.

Event triggering registration

Event triggering registration of a person in the data source

Birth

Immigration

Other

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

Any contact with the health system triggers the registration of the person

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

Death

Emigration

Insurance coverage end

Event triggering creation of a record in the data source

Most of them are created when a contact with the health system is produced. In other cases, such as pharmacy data, when the prescription is created or when the dispensing is produced. Each table of the data source has their own triggers

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

The linkage among all the data sources is produced by an ID pseudonymized number. In addition, the prescription and dispensing are linked at prescription level. Moreover, in the birth registry there is a linkage between the mother and the newborn through their ID numbers

Linked data sources

Pre linked

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

Yes

Data source, other

All data sources that composes VID (01_SIP, 02_PCV, 03_CEX, 04_MBDS, 05_AED, 06_DIAGNOSES, 07_GAIA, 08_SIV, 09_MDR, 10_PMR, 11_EOS, 12_TESTS, 13_CONG and 14_REDMIVA) have a linking ID number that identifies uniquely each person

Linkage strategy

Deterministic

Linkage variable

ID number (sip) for all the bases. Prescription number (receta_id) for the prescription and dispensing linkage

Linkage completeness

The completeness of id number is 100% for each database, except for the birth registry, where the ID number of the newborn is always completed but the ID number of the mother is missing in a 18% of the cases.

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?

Yes

Data source last refresh

01/04/2023

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

ConcepTION CDM

CDM website

https://www.imi-conception.eu/

CDM release frequency

6 months

Data source ETL CDM version

2.2

Data source ETL frequency

6,00 months

Data source ETL specifications (file)

0_3_VID_Catalogue_RTL_specifications_0.pdf(4.04 MB)

Data source ETL status

Completed

Data source ETL specifications (link)

https://catalogues.ema.europa.eu/sites/default/files/document_files/0_3_VID_Cat...

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 specifications (file)

FISABIO-HSRP OMOP ETL design v3.1.pdf(3.18 MB)

Data source ETL status

In progress

Data source ETL specifications (link)

https://catalogues.ema.europa.eu/sites/default/files/document_files/1_1_FISABIO…