Hospital Information System

First published: 01/02/2024

Last updated: 17/10/2024

Data source | Outdated | Human | Hospital discharge records

Administrative details

Administrative details

Data source ID

24589

Data source acronym

HIS

Data holder

Department of Epidemiology of the Regional Health Service - Lazio

Data source type

Hospital discharge records

Main financial support

National, regional, or municipal public funding

Care setting

Hospital inpatient 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.deplazio.net/

Contact details

Marina Davoli dipepi@deplazio.it

Main

dipepi@deplazio.it

Data source regions and languages

Data source countries

Italy

Data source languages

Italian

Data source regions

Lazio

Data source establishment

Data source established

15/06/1996

Data source time span

First collection: 15/06/1996

The date when data started to be collected or extracted.

Publications

Data source publications

Bettiol A, Lucenteforte E, Vannacci A, Lombardi N, Onder G, Agabiti N, Vitale C, Trifirò G, Corrao G, Roberto G, Mugelli A, Chinellato A Italian Group for Appropriate Drug prescription in the Elderly (I-GrADE). Calcium Channel Blockers in Secondary Cardiovascular Prevention and Risk of Acute Events: Real-World Evidence from Nested Case-Control Studies on Italian Hypertensive Elderly. Clin Drug Investig. 2017 Dec37(12):1165-1174. doi: 10.1007/s40261-017-0576-2.

Colais P, Agabiti N, Davoli M, Buttari F, Centonze D, De Fino C, Di Folco M, Filippini G, Francia A, Galgani S, Gasperini C, Giuliani M, Mirabella M, Nociti V, Pozzilli C, Bargagli A Multiple Sclerosis Study Group, Lazio Region. Identifying Relapses in Multiple Sclerosis Patients through Administrative Data: A Validation Study in the Lazio Region, Italy. Neuroepidemiology. 201748(3-4):171-178. doi: 10.1159/000479515. Epub 2017 Aug 9.

Cacciani L, Agabiti N, Bargagli AM, Davoli M. Access to percutaneous transluminal coronary angioplasty and 30-day mortality in patients with incident STEMI: Differentials by educational level and gender over 11 years. PLoS One. 2017 Apr 612(4):e0175038. doi: 10.1371/journal.pone.0175038. eCollection 2017.

Di Domenicantonio R, Trotta F, Cascini S, Agabiti N, Kohn A, Gasbarrini A, Davoli M, Addis A. Population-based cohort study on comparative effectiveness and safety of biologics in inflammatory bowel disease. Clin Epidemiol. 2018 Feb 510:203-213. doi: 10.2147/CLEP.S150030. eCollection 2018.

Studies

List of studies that have been conducted using the data source

Analysis of the Burden of Cytomegalovirus Infection and Disease in Hematopoietic Stem Cell Transplant Recipients

Comparative Effectiveness and Safety of Drugs used in Rare Neuromuscular and Neurodegenerative Diseases (CAESAR)

Comparative Effectiveness and Safety of Immunosuppressive Drugs in Transplant patients (CESIT)

The BRodalumab Assessment of Hazards: A Multinational Safety (BRAHMS) study in electronic healthcare databases

An epidemiological investigation of high-risk children for Respiratory Syncytial Virus infections - RWE palivizumab utilization as a RSV preventive treatment in Lazio (Italy)

Prospective observational study of natural history and standard of care in pediatric patients affected by lysosomal storage disorders and diagnosed through newborn screening

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.

No

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?

No

Cause of death

Captured

Cause of death vocabulary

ICD-9-CM

Prescriptions of medicines

Not Captured

Dispensing of medicines

Not Captured

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?

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

ICD-9-CM

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

Clinical measurements

Is information on clinical measurements (e.g., BMI, blood pressure, height) available?

No

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?

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.

No

Unique identifier for persons

Are patients uniquely identified in the data source?

Yes

Diagnostic codes

Captured

Medicinal product information

Not Captured

Quality of life measurements

Not Captured

Lifestyle factors

Not Captured

Sociodemographic information

Captured

Sociodemographic information collected

Age

Gender

Health area

Education level

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

95%

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)

Regional sub-set - Lazio region

Population

Population size

6.983.762

Active population size

5.599.534

Population by age group

Age group	Population size	Active population size
Paediatric Population (< 18 years)	953.684	846.375
Preterm newborn infants (0 – 27 days)	73	73
Term newborn infants (0 – 27 days)	1.388	1.388
Infants and toddlers (28 days – 23 months)	72.000	69.342
Children (2 to < 12 years)	516.696	463.290
Adolescents (12 to < 18 years)	363.527	312.282
Adults (18 to < 46 years)	2.114.341	1.722.877
Adults (46 to < 65 years)	1.953.805	1.710.593
Elderly (≥ 65 years)	1.961.932	1.319.689
Adults (65 to < 75 years)	754.897	645.999
Adults (75 to < 85 years)	622.617	466.321
Adults (85 years and over)	584.418	207.369

Median observation time

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

1,00

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

1,00

Data flows and management

Access and validation

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

Administrative Data

Event triggering registration

Event triggering registration of a person in the data source

Start of treatment

Birth

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

Death

End of treatment

Event triggering creation of a record in the data source

Hospital discharge

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, possible linkage

Record linkage can be performed with all other available information systems (MIS, PHARM, HEIS) using the individual patient code

Linked data sources

Pre linked

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

No

Data source, other

HIS

Linkage strategy

Deterministic

Linkage variable

Anonymous Patient Identifier

Linkage completeness

All mostly completed

Pre linked

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

No

Data source, other

MIS

Linkage strategy

Deterministic

Linkage variable

Anonymous Patient Identifier

Linkage completeness

All mostly completed

Pre linked

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

No

Data source, other

PHARM

Linkage strategy

Deterministic

Linkage variable

Anonymous Patient Identifier

Linkage completeness

All mostly completed

Data management specifications that apply for the data source

Data source refresh

Monthly

Informed consent for use of data for research

Other

Possibility of data validation

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

No

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

Informed consent, other

Upon DPO consent

Data source last refresh

30/04/2023

Common Data Model (CDM) mapping

CDM mapping

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

No