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Infectious diseases in the Czech Republic

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Methodological description

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1 Description of the dataset

1.1 Primary objective

The primary objective of the dataset is to provide a comprehensive overview of the incidence of infectious diseases in the Czech Republic at the regional level. The dataset allows monitoring of development of the situation from 2018 to the last closed year according to individual diagnoses classified according to ICD-10.

Thanks to the detailed stratification of data by year, region and age category, it is possible to evaluate trends, compare the incidence in individual population groups and identify regional or demographic differences in the incidence of infectious diseases.

Overall, it is a tool for analysing and interpreting epidemiological data that supports public health, preventive measure planning, and expert decision-making in the field of health policy.

1.2 Basic information

The dataset is based on data from the Information System of Infectious Diseases (ISID), which is the official source of information on the incidence of infectious diseases in the Czech Republic. This system is administered by state health authorities and serves as a key tool for monitoring and evaluating the epidemiological situation in real time.

Data in the ISID is continuously collected from healthcare facilities and laboratories, which report the occurrence of individual diseases in accordance with applicable legislation. The system also includes an EWS (Early Warning System) component, which enables automated reporting of selected infectious diseases from healthcare providers and laboratories. Thanks to the EWS, anomalies can be quickly detected, outbreaks identified and alerts generated for public health authorities.

The kit thus enables the monitoring of trends and the spread of infections in different regions and population groups, and provides a basis for rapid response to epidemic threats.

1.3 Interpretation, informational value and possible limitations

The NHIS records data explicitly intended only for the purposes specified in Section 70(1) of the Health Services Act, in particular for statistical purposes. Therefore, they are not reference data within the meaning of Section 2(b) of Act No. 111/2009 Coll., on Basic Registries, as amended, which, according to Section 4(4) of the same Act, are considered correct unless proven otherwise or unless there is reasonable doubt as to their correctness. The Institute of Health Information and Statistics of the Czech Republic (IHIS CR) is not responsible for the reliability of the data recorded in the NHIS, nor does it have access to the source data on which these data are based, and it is not possible to infer their accuracy for the purposes specified by other legal regulations from the available data.

The purpose of the survey is to obtain information on the incidence of infectious diseases in order to assess the development of the epidemiological situation in the Czech Republic, to monitor the health status of the population and to manage the provision of healthcare.

The outputs include selected diagnoses from the ISID, stratified according to ICD-10 codes.



1.4 Personal data protection

The data summary is prepared in accordance with Act No. 372/2011 Coll. (Act on Health Services and Conditions for Their Provision) §73(8) and Act No. 110/2019 Coll. §16.

1.5 Keywords

ISIN, EWS, Infectious Disease Information System (excluding COVID), infectious disease, public health

1.6 Classification according to EuroVoc

state health service, infectious disease

2 Technical characteristics

- Update frequency: annual
- Data set format: csv
- Number of rows: 272 858
- Number of descriptive attributes: 11
- File size: 29,5 MB

3 Data source

The source of data for the dataset is the *Information System of Infectious Diseases (ISID)*, which is defined by legislation:

- [Act No. 258/2000 Coll.](#), on Protection of Public Health, as amended
- [Decree No. 306/2012 Coll.](#) of MZ CR (Ministry of Health of the Czech Republic) on Conditions of Prevention and Spread of Infectious Diseases and Hygiene Requirements for the Operation of Healthcare Facilities and Social Care Institutions
- [Decree No. 473/2008 Coll.](#) of MZ CR (Ministry of Health of the Czech Republic) on System of Epidemiological Vigilance for Selected Infection, as amended ([Decree No. 275/2010 Coll.](#) and [Decree No. 233/2011 Coll.](#))

Early Warning System (EWS) – a component of the early warning system that enables rapid detection and automated reporting of selected infectious diseases from primary and inpatient care. EWS is part of the **SCOPE-IS** project, which aims to create a sustainable, standardised and electronic system for early warning of epidemic threats.

- EWS integrates data from healthcare providers (practitioners, outpatient specialists, hospitals) and laboratory sources.
- It enables automated reporting to ISIN, anomaly detection and the generation of alerts for public health authorities.



- Legislative basis: [Decree No. 306/2012 Coll.](#) and amendment [to Decree No. 389/2023 Coll.](#) on the epidemiological surveillance system.

4 Data aggregation and transformation

The dataset contains aggregated case numbers and, as a subset, case numbers based on EWS reports according to the attributes of the dataset.

5 Data set attributes

1. Year

- Parameter name: rok
- Data type: numeric
- Parameter description: year of case report
- Possible values: 2018 – to the last closed year

2. Month

- Parameter name: mesic
- Data type: numeric
- Parameter description: month of case reporting
- Possible values: 1–12

3. Region of residence – code

- Parameter name: kraj_kod
- Data type: string
- Parameter description: Code of the patient's region of residence according to [the Czech Statistical Office code list](#)
- Possible values: according to [the Czech Statistical Office code list](#); supplemented with the option CZ999 – cases with no information provided about the patient's region of residence

4. Region of residence – name

- Parameter name: kraj_nazev
- Data type: string
- Parameter description: Name of the region where the child resides according to [the Czech Statistical Office code list](#)
- Possible values: according to [the Czech Statistical Office code list](#); supplemented with the option Not specified – cases where the patient's region of residence is not specified

5. Diagnosis

- Parameter name: diagnoza
- Data type: string
- Parameter description: three-character diagnosis according to [ICD-10](#)
- Possible values: A00–Z99

6. Diagnosis name

- Parameter name: diagnoza_nazev
- Data type: string
- Parameter description: diagnosis name according to [ICD-10](#)



- Possible values: according to [ICD-10](#)
- 7. Age group**
- Parameter name: vek_kod
 - Data type: numeric
 - Parameter description: code of the patient's five-year age group based on [the NHIS age group code list](#)
 - Possible values: codes for age groups 0, 0–74 and 75+ according to the age group code list
- 8. Age group – name**
- Parameter name: vek_nazev
 - Data type: string
 - Parameter description: name of the patient's five-year age group
 - Possible values: name for age groups 0, 0–74 and 75+ according to the age group code list
- 9. Patient gender**
- Parameter name: pohlavi
 - Data type: string
 - Parameter description: patient's gender
 - Possible values: M (male), Z (female)
- 10. Number of EWS cases**
- Parameter name: EWS
 - Data type: numeric
 - Parameter description: number of cases reported in the ISIN registry originating from EWS reports
 - Possible values: 0–9999
- 11. Number of ISIN cases**
- Parameter name: pocet_pripadu
 - Data type: numeric
 - Parameter description: number of cases in the ISIN register according to the above stratification
 - Possible values: 0–9999