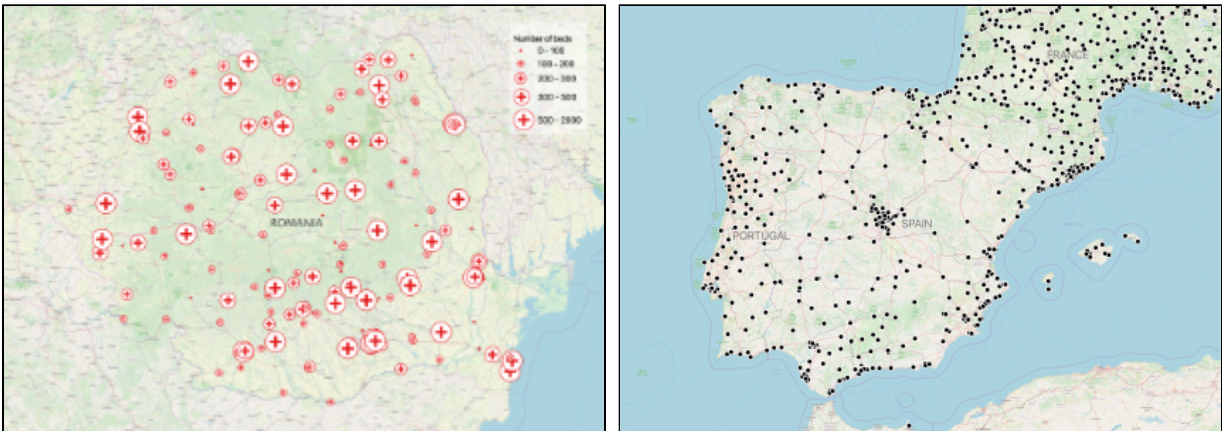# Healthcare services in Europe

Version

1.0 (25/03/2020)

General description

The European Social Charter[1] emphasizes the importance of healthcare services accessibility. EU Member States (MS) are obligated to have an adequate healthcare system which does not exclude parts of the population from receiving healthcare. However, access to healthcare is difficult to measure without a detailed methodology for collecting, harmonizing, and maintaining a pan-European register of healthcare services. This dataset results from an integration of official data sources from Member States, with the location of services as a minimum information. Additional information is included when available (see **attributes** below). Reliable pan-European geospatial datasets for EU institutions are required to further develop GI capacities at EU level, and an important step in reducing inequalities across the EU.

The dataset contains information on main healthcare services considered to be 'hospitals' by Member States. The definition varies slightly from country to country, but roughly includes the following:*"'Hospitals' comprises licensed establishments primarily engaged in providing medical, diagnostic, and treatment services that include physician, nursing, and other health services to in-patients and the specialised accommodation services required by inpatients. Hospitals may also provide out-patient services as a secondary activity. Hospitals provide in-patient health services, many of which can only be provided using the specialised facilities and equipment that form a significant and integral part of the production process. In some countries, health facilities need in addition a minimum size (such as number of beds) in order to be registered as a hospital."*[2] In some cases, facilities without in-patient services may be included.

Many different data sources are available at MS level with different quality criteria: Level of detail, timeliness and update frequency, etc. This methodology aims to progressively build pan-European datasets from MS official data and maintain them in a sustainable manner. Different data sources could be selected depending on the needs and the cases but priority is given to data sourced from Health Ministries, or other official outlets indicated by Ministries. Data is semantically harmonised with a common (simple) schema. Production relies on automated processes: MS data are retrieved, combined, harmonised and updated automatically, as far as possible, using up-to-date techniques.

More information: https://ec.europa.eu/health//sites/health/files/systems_performance_assessment/docs/com2014_215_final_en.pdf

Contribution

Data provided may contain inconsistencies or inaccuracies. If you would like to contribute by suggesting alternative datasources or noticing any issues, please contact Eurostat user support.

Attributes

Attribute	Datatype	Description

id	int	The healthcare service identifier. This identifier is based on national identification codes, if it exists.
hospital_name	string	The name of the healthcare institution.
site_name	string	The name of the specific site or branch of a healthcare institution.
lat	double	Latitude (WGS 84).
lon	double	Longitude (WGS 84).
street	string	Street name.
house_number	int	House number.
postcode	int	Postcode.
city	string	City name (Sometimes refers to a region or municipality).
cc	string	Country code (2 letters, ISO 3166-1 alpha-2).
country	string	Country name.
emergency	boolean	'yes/no' for whether the healthcare site provides emergency medical services.
cap_beds	int	Measure of capacity by number of beds (most common).
cap_prac	int	Measure of capacity by number of practitioners.
cap_rooms	int	Measure of capacity by number of rooms.
facility_type	string	If the healthcare service provides a specific type of care e.g. Psychiatric hospital.
public_private	string	'private/public' status of the healthcare service.
list_specs	string ',' delim	List of specialties recognized in the European Union and European Economic Area[3] according to the 2005 EU Directorate[4]
tel	int	Telephone number.
email	string	Email address.
url	string	URL link to the institution's website.
ref_date	date	The reference date of the data (DD/MM/YYYY).
pub_date	date	The date that the data was last published (DD/MM/YYYY).

Geometrical representation

The locations are represented as point geometries.

Geographical extent

EU and neighboring countries: AT, BE, CH, DE, DK, ES, FI, FR, IE, IT, LU, LV, NL, PT, RO, SE, UK.

See this page for a more up-to-date list of countries.

Data sources

Country	Data source	Reference date	Update frequency	URL (if applicable)
AT	Ministry of Health	2020	Quarterly	https://www.sozialministerium.at/Themen/Gesundheit/Gesundheitssystem/Krankenanstalten/Krankenanstalten-und-selbststaendige-Ambulatorien-in-Oesterreich/Krankenanstalten-in-Oesterreich.html
BE	SPF Santé publique, Sécurité de la Chaîne alimentaire et Environnement	2020	As needed	https://www.health.belgium.be/fr/sante/organisation-des-soins-de-sante/partage-de-donnees-de-sante/institutions-de-soins
CH	Ministry of Health	2017	Not stated	https://www.bag.admin.ch/bag/de/home/zahlen-und-statistiken/zahlen-fakten-zu-spitaelern/kennzahlen-der-schweizer-spitaeler.html
DE	Ministry of Health	2017	As needed	https://www.dkgev.de/themen/digitalisierung-daten/informationstechnik-im-krankenhaus/verzeichnisse-und-register/
DK	*Unknown*	*Unknown*	*Unknown*	*Unknown*
ES	National Hospital Catalog	2019	Annual	https://www.mscbs.gob.es/ciudadanos/prestaciones/centrosServiciosSNS/hospitales/
FI	Finnish Institute for Health and Welfare	2019	Annual	https://thl.fi/fi/tilastot-ja-data/ohjeet-tietojen-toimittamiseen/hoitoilmoitusjarjestelma-hilmo/toimipaikkarekisteri-topi/topi-haku
FR	Ministry of Health, FINESS (Fichier National des Etablissements Sanitaires et Sociaux)	2020-03	Bi-monthly	https://www.data.gouv.fr/en/datasets/finess-extraction-du-fichier-des-etablissements/
IE	Health Service Executive	2017-07	Irregular	https://data.gov.ie/dataset/list-of-hospitals-in-ireland
IT	Open Data site of the Ministry of Health	2020	Annual	http://www.dati.salute.gov.it/dati/dettaglioDataset.jsp?menu=dati&idPag=2
LU	Ministry of Health	2019	Bi-annual	https://sante.public.lu/fr/politique-sante/systeme/organisation/hopitaux/2019-05-liste-hopitaux.pdf
LV	The National Health Service of the Republic of Latvia	2019	Not stated	http://www.vmnvd.gov.lv/lv/veselibas-aprupes-pakalpojumi/slimnicas/slimnicu-saraksts http://www.vmnvd.gov.lv/lv/veselibas-aprupes-pakalpojumi/954-slimnicu-uznemsanas-nodalas http://www.vmnvd.gov.lv/lv/veselibas-aprupes-pakalpojumi/steidzamas-mediciniskas-palidzibas-punkti
NL	Volksgezondheidenzorg.info	2019	Annual	https://www.volksgezondheidenzorg.info/sites/default/files/ziekenhuizen2019_rivm.xlsx
PT	Administração Central do Sistema de Saúde (ACSS)	2019-12	Not stated	https://dados.gov.pt/pt/datasets/caracterizacao-das-valencias-de-urgencia/
RO	Ministry of Health	Not stated	Not stated	http://infrastructura-sanatate.ms.ro/spitale/harta1
SE	Sveriges Kommuner och Regioner (SALAR)	2018	Annual	https://skr.se/ekonomijuridikstatistik/statistik/ekonomiochverksamhetsstatistik.1342.html
UK	England - Data.gov.uk Scotland - NHS Scotland Wales - Welsh Government	2015 2020 2017	Irregular Continuous Irregular	https://data.gov.uk/dataset/f4420d1c-043a-42bc-afbc-4c0f7d3f1620/hospitals https://www.opendata.nhs.scot/dataset/hospital-codes/resource/c698f450-eeed-41a0-88f7-c1e40a568acc http://lle.gov.wales/services/wfs?version=1.0.0&request=GetFeature&typeName=inspire-wg:Hospitals&outputFormat=SHAPE-ZIP

Coordinate Reference System

Geographical coordinates (longitude, latitude) in WGS84, EPSG:4326.

Download service

Eurostat website download page: https://ec.europa.eu/eurostat/web/gisco/geodata/reference-data/healthcare-services

Download space: https://github.com/eurostat/healthcare-services/tree/master/data

API: https://raw.githubusercontent.com/eurostat/healthcare-services/master/data/**<format>**/**<geo_code>**.**<format>** where **format** is the encodings format among (csv, geojson, gpkg) and **geo_code** is the 2 letters country code, or '*all*' to retrieve all data.

Encoding

The data is encoded in CSV, GeoPackage or GeoJSON formats. For a conversion in other GIS formats, you could use GDAL.

Licence

See the licensing conditions for every individual country in the table above, on the website of the provider.

References

[1] Council of Europe. "Revised European Social Charter." Strasbourg 3 May 1996.

[2] "A System of Health Accounts". Vol. 1, *OECD*, 2000, p. 137, http://www.oecd.org/dataoecd/49/51/21160591.pdf. Accessed 25 March 2020.

[3] "Specialty (Medicine)". *Wikipedia.org*, https://en.wikipedia.org/wiki/Specialty_(medicine) #List_of_specialties_recognized_in_the_European_Union_and_European_Economic_Area. Accessed 25 March 2020.

[4] European Parliament, Council of the European Union. "Directive 2005/36/EC of the European Parliament and of the Council of 7 September 2005 on the recognition of professional qualifications (Text with EEA relevance)." *EUR-Lex*, https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02005L0036-20190415. Accessed 25 March 2020.