

Health Database Landscape in European Countries:

A literature review

OBJECTIVES

Given the variety of health databases in Europe, coupled with heterogenous access pathways and data available, the objectives of this study were :

- to identify main European healthcare databases,
- to assess their potential uses in market access.

METHODS

A comprehensive review of health databases in Europe (France, UK, Germany, Italy, Spain, Denmark, Sweden and Norway) was carried out by examining sources such as PubMed, Embase and Google Scholar. For each country, were examined data content, data owner and type of access.

DISCUSSION

Since RWE is derived from actual clinical practice, and healthcare practices and patient populations vary from country to country, RWE may be relevant in countries where it has been collected. Some countries have systematized data collection infrastructures, enabling RWD analysis involving a large proportion of the population. In the UK, for example, the CPRD and NHS Digital social security programs include a large number of patients. Similarly, France has developed a comprehensive RWD source, producing analyses that are among the largest RWD studies in Europe.

It is also interesting to note that researchers from different countries are collaborating to go beyond country-specific RWE. For example, a study involving Sweden, Norway and Denmark collected data from the patient registries of each of these three healthcare systems for a more comprehensive analysis². Combined analyses of this kind underline RWE's ability to provide relevant information to a wider range of healthcare professionals.

CONCLUSION

This non-exhaustive review demonstrated the diversity of European databases which could be used for real world evidence to answer HTA requirements. In this context, the European Health Data Space (EHDS)² will harmonize the databases across Europe and maximize their potential for patients, researchers, innovators, and regulators.

Abréviations

BDCAP: Base de Datos Clínicos de Atención Primaria (Primary Care Clinical Database)
BIFAP: Base de Datos para la Investigación Farmacoepidemiológica en Atención Primaria
CMBD : Certificates of Discharge of the National Health System Register
CPRD: Clinical Practice Research Datalink
GePaRD: German Pharmacoepidemiological Research Database
NHS: National Health Service
PHE: Public Health England
SDO: Schede di Dimissione Ospedaliera (Hospital Discharge Database)
SNDS: Système National des Données de Santé (National Health Data System)

Références

¹ Abildgaard N, Freilich J, Anttila P, Bent-Ennakhil N, Ma Y, Lassenius M, et al. Use of Linked Nordic Registries for Population Studies in Hematologic Cancers: The Case of Multiple Myeloma. Clin Epidemiol. 18 sept 2023;15:987-99.

² Health and Care Data: Approaches to data linkage for evidence-informed policy. https://eurohealthobservatory.who.int/publications/i/health-and-care-data-approaches-to-data-linka-ge-for-evidence-informed-policy

³ NHS england Digital. https://opendata.nhsbsa.net/

⁴ PHE. https://www.gov.uk/government/organisations/public-health-england

⁵ Genesis-Destatis. https://www.destatis.de/EN/Themes/Society-Environment/Health/_node.html

⁶ Stadbank.https://www.statbank.dk/statbank5a/default.asp?w=1920

⁷ MEDSTAT.DK. https://www.medstat.dk/

⁸ Socialstyrelsen. https://sdb.socialstyrelsen.se/lf_lak/val.aspx

⁹ Folkhalsomyndigheten. https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/public-health-reporting/

¹⁰ Helsedata. https://helsedata.no/en/data-sources/?page=1&sort=0

¹¹ Istat. https://esploradati.istat.it/databrowser/#/en

¹² Tariffe DRG. https://salute.regione.emilia-romagna.it/siseps/sanita/sdo/files/allegato_3_TARIFFE_DRG.xls

¹³ BDCAP. https://www.sepg.pap.hacienda.gob.es/sitios/sepg/en-GB/Presupuestos/DocumentacionEstadisticas/Documentacion/paginas/basesdatos estudios regionales.aspx

¹⁴ Scan santé.https://www.scansante.fr/

¹⁵ Open Medic. https://www.assurance-maladie.ameli.fr/etudes-et-donnees/open-medic-base-complete-depenses-medicaments

¹⁶ CPRD. https://www.cprd.com/

¹⁷ NHS. https://www.gov.uk/government/organisations/health-and-social-care-information-centre

¹⁸ GePaRD. https://www.bips-institut.de/forschung/forschungsinfrastrukturen/gepard.html

¹⁹ Lauer-Taxe®. https://www.cgm.com/deu_de/produkte/apotheke/lauer-taxe-en.html

²⁰ Rote Liste®. https://www.rote-liste.de/

²¹ Sundhedsdata-Styrelsen. https://sundhedsdatastyrelsen.dk/da/english

²² Registerforskning. https://www.registerforskning.se/sw/

²³ SDO. https://www.salute.gov.it/portale/assistenzaOspedaliera/homeAssistenzaOspedaliera.jsp

²⁴ CMBD. https://www.sanidad.gob.es/en/estadEstudios/estadisticas/cmbdhome.htm

²⁵ BIFAP. http://www.bifap.org/index_EN.html?lang=es

²⁶ SNDS. https://www.snds.gouv.fr/SNDS/Accueil