



# PHIRI

Population Health Information  
Research Infrastructure

# Catalogue of population health information sources on COVID-19

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## Executive summary

The Deliverable 8.4 of the Population Health Research Infrastructure project ([PHIRI](#)), aims to create a catalogue of health information sources and existing international initiatives and projects on COVID-19 in EU/EEA Countries.

Task 8.4 started with a mapping exercise of sources of population health information on COVID-19 to provide relevant population health guidelines, standards, and reports with the aid of web scraping. This included international and European organisations, public health and policy networks, scientific databases and national authorities and organisations. A detailed search methodology was developed to achieve this goal.

The web search is combined with information from the PHIRI SharePoint platform (access limited to the partners of the project), where members of the consortium complement the work performed by adding new activities using a specific template, previously developed within PHIRI. Results are then included in a repository of the [Health Information Portal](#).

## Key points

- The sources of information were identified in collaboration with Task 4.3, which the Istituto Superiore di Sanità (ISS) is co-leading with Institutul National de Sanatate Publica (INSP)
- A search string to be used to identify COVID-19 relevant population health guidelines, standards, and reports on the sources of information was elaborated by Országos Kórházi Főigazgatóság (OKFO) and ISS to use in international libraries
- OKFO and INSP checked the websites of national organizations (especially CDC, ECDC, WHO and EMA) to map the international guidelines and recommendations national institutions and authorities take into consideration when working out national policies and measures
- Following and identifying information sources and guidelines according to the Rapid Exchange Forum (REF) meeting topics; multinational guidelines can be supplemented by WP8 partners providing connected national measures and publishing them on the Health Information Portal
- The search string will be improved and updated according to the results of the pilot search performed. The updated search string will be launched on other sources of information to identify COVID-19 health guidelines, standards, and reports
- Task 8.4 partners will be involved in data collection of the identified COVID-19 relevant population health guidelines, standards, and reports according to the metadata template that was elaborated in WP4
- Collaboration with REF and WP4 activities were and will be essential for the development of this task

## List of contributors to the Deliverable

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## I. Websearch - information sources and projects

Task 8.4 started with a mapping exercise of sources of population health information on COVID-19 to provide relevant population health guidelines, standards, and reports with the aid of web scraping. This included international and European organisations (e.g. WHO, ECDC, EMA), public health and policy networks (e.g. Cochrane, EUnetHTA), scientific databases and national authorities and organisations (e.g. Ministries of health, Public Health Institutes).

The web search is combined with information from PHIRI platform members through a template on the portal where researchers and institutions can notify new activities. Results are included in a repository of the project portal and complement WP4.

The results attached in a separate xls file as an appendix, contain the name of the database/organisation, description of the organisation and relevance to COVID-19/PHIRI and the URL where it can be accessed.

The structure follows the fields described and defined in the metadata template. The fields are determined as mandatory and optional.

## II. Search methodology

The online health related archives and the websites of the most important international health organizations and institutions were searched. A detailed search methodology with WP4 T4.3 task group was developed for studies. In D8.4 the focus was guidelines and recommendations.

These were mainly published on websites, portals of international institutions and authorities and are updated regularly due the dynamic nature of COVID-19 and the spread of the virus.

Studies and publications of mainly international research groups were incremental to the sources mentioned above. The conclusion of these papers were kind of recommendations related to population health measures of COVID-19.

The methodology for planning and creating a multi-database search strategy consists of the following steps (1):

1. Determine a clear and focused question
2. Describe the articles that can answer the question
3. Decide which key concepts address the different elements of the question
4. Decide which elements should be used for the best results
5. Choose an appropriate database and interface to start with
6. Document the search process in a text document
7. Identify appropriate index terms in the thesaurus of the first database
8. Identify synonyms in the thesaurus
9. Add variations in search terms
10. Use database-appropriate syntax, with parentheses, Boolean operators, and field codes
11. Optimize the search
12. Evaluate the initial results
13. Check for errors
14. Translate to other databases
15. Test and reiterate

### III. Metadata template

Below you can find the accepted metadata template for Health Information Sources and Population Health Studies. The templates are continuously updated in the course of work in WP4 and WP8.

#### Metadata template for HI sources and Population health studies

Item	HI sources	* = mandatory information
Last update	ISO-8601	*
Title	Free text	*
Alternative title	Free text	
Abbreviation	Free text	
Description	Free text	
Governance and legal framework	Free text	
Topics - fixed	Conceptual framework	
Keywords - free	Free text	
Permanent identifier of the data source		
URL of the data source	URL	*
Country	ISO-3166	*
Geo coverage	NUTS 1,2,3, Europe, outside Europe, multinational	*
Target population - fixed	general population, specific groups, patients, hospitalized, deaths	*
Age range - lower	Number	*
Age range - upper	Number	*
Sample size	Number	
Sex	Men only, women only, both, unknown	*
Data collection period - starting date	ISO-8601	
Data collection period - ending date	ISO-8601	
Type of information(type of source)	Survey/interview data, administrative data, population data, registry data, biobank/sample/specimen data, customer record data, observational study data, data from other records	*
Language	ISO-639-1	*
Updating periodicity	Weekly, monthly, annually, biannually, every 2+ years, every 5+ years, irregularly, one time collection	
Personal identifier	National identifier, patient identifier, participant number, other	*
Terms of data access - URL	URL	

Terms of data access - free	Free text	
Regulations for data sharing	Free text	
Level of aggregation	Aggregated, Individual, other format	*
Linkage possible	Yes, Only to some, No	*
Data owner (in national language)	List of terms	*
Data owner (English)	Free text	
Data owner acronym	Free text	
URL data owner	URL	*
Contact (name of the person)	Free text	*
Contact info (address)	Free text	*
Contact phone	phone number	
Contact e-mail	e-mail address	*
Publications	Free text + URL + DOI	REMOVED
Funding	Free text	STAYS IN

## IV. Conclusions and recommendations

During the course of the COVID-19 pandemic, new information sources and guidelines continue to emerge therefore, the catalogue should be updated.

Guidelines and initiatives are continuously collected and presented during the biweekly REF meetings.

T8.4 should closely cooperate with other task groups in WP8 and WP4 especially T4.3 where PHIRI related publications are gathered.

## References

1. 'A systematic approach to searching: an efficient and complete method to develop literature searches' (J Med Libr Assoc. 2018 Oct; 106(4): 531–541; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6148622/#b16-jmla-106-531>).
2. <https://www.healthinformationportal.eu>
3. Metadata templates  
[https://help.oclc.org/Metadata\\_Services/CONTENTdm/Project\\_Client/Project\\_settings/020 Metadata\\_Templates?sl=en](https://help.oclc.org/Metadata_Services/CONTENTdm/Project_Client/Project_settings/020_Metadata_Templates?sl=en)

## Appendices

Appendices

1. Catalogue of existing international initiatives, projects and information sources relevant to PHIRI

## Disclaimer

Disclaimer excluding Agency and Commission responsibility

The content of this document represents the views of the author only and is his/her sole responsibility. The European Research Executive Agency (REA) and the European Commission are not responsible for any use that may be made of the information it contains.

# Appendix: Catalogue of existing international initiatives, projects and information sources relevant to PHIRI

Catalogue of existing international initiatives, projects and information sources relevant to PHIRI scope

Short name	Name	URL	Description
ACM-DL	Digital Library	<a href="https://dl.acm.org/search/advanced">https://dl.acm.org/search/advanced</a>	<p>The ACM Digital Library is a research, discovery and networking platform containing:</p> <ul style="list-style-type: none"> <li>•The Full-Text Collection of all ACM publications, including journals, conference proceedings, technical magazines, newsletters and books.</li> <li>•A collection of curated and hosted full-text publications from select publishers.</li> <li>•The ACM Guide to Computing Literature, a comprehensive bibliographic database focused exclusively on the field of computing.</li> <li>•A richly interlinked set of connections among authors, works, institutions, and specialized communities.</li> </ul> <p>For publishing information on a specific ACM published paper for a legal case, please submit your request to the Director of Publications at <a href="mailto:publication-policies@hq.acm.org">publication-policies@hq.acm.org</a></p>
ASPHER	Association of Schools of Public Health in the European Region	<a href="https://www.aspher.org/covid-19-task-force.html">https://www.aspher.org/covid-19-task-force.html</a>	<p>The Association of Schools of Public Health in the European Region (ASPHER) is the key independent European organisation dedicated to strengthening the role of public health by improving education and training of public health professionals for both practice and research.</p> <p>The main functions of the Association are:</p> <p>To support the professionalisation of the public health workforce in Europe, whilst respecting the diversity of national and regional contexts in which each school of public health operates, and thus:</p> <p>To sustain capacity building in public health, so that it balances with national and European population health challenges and threats, and is supported by best standards of public health education and training, scientific research, and practice. ASPHER has convened a COVID-19 Task Force to facilitate relevant networking necessary to respond to the current emergency.</p>
BBMRI-ERIC	Biobanking and BioMolecular resources Research Infrastructure - European Research Infrastructure Consortium	<a href="https://www.bbMRI-eric.eu">https://www.bbMRI-eric.eu</a>	<p>BBMRI-ERIC (Biobanking and BioMolecular resources Research Infrastructure - European Research Infrastructure Consortium) is the world largest network of biorepository of human samples (such as blood, tissues, cells or DNA, and associated clinical and research data), connecting more than 600 biobanks from 20 countries. Its mission is to facilitate research on human samples for health research, while keeping the highest scientific standards and, most importantly, preserving patients' and citizens' privacy. BBMRI-ERIC provides services to researchers to develop better treatments, test diagnostic tools and advance biomedical research.</p>
bioRxiv	The preprint server for biology	<a href="https://www.biorxiv.org/">https://www.biorxiv.org/</a>	<p>bioRxiv (pronounced "bio-archive") is a free online archive and distribution service for unpublished preprints in the life sciences. It is operated by Cold Spring Harbor Laboratory, a not-for-profit research and educational institution. By posting preprints on bioRxiv, authors are able to make their findings immediately available to the scientific community and receive feedback on draft manuscripts before they are submitted to journals.</p> <p>Articles are not peer-reviewed, edited, or typeset before being posted online. However, all articles undergo a basic screening process for offensive and/or non-scientific content and for material that might pose a health or biosecurity risk and are checked for plagiarism. No endorsement of an article's methods, assumptions, conclusions, or scientific quality by Cold Spring Harbor Laboratory is implied by its appearance in bioRxiv. An article may be posted prior to, or concurrently with, submission to a journal but should not be posted if it has already been accepted for publication by a journal.</p> <p>Authors are free to submit a revised version of an article at any time prior to its formal acceptance by a journal by clicking "Submit a Revision" within the Author Area. Once posted on bioRxiv, articles are citable and therefore cannot be removed.</p>
BMC	Biomed Central	<a href="https://www.biomedcentral.com/">https://www.biomedcentral.com/</a>	<p>A pioneer of open access publishing, BMC has an evolving portfolio of high quality peer-reviewed journals including broad interest titles such as BMC Biology and BMC Medicine, specialist journals such as Malaria Journal and Microbiome, and the BMC Series. Expanding beyond biomedicine into the physical sciences, mathematics and engineering disciplines, BMC now offers a wider portfolio of subject fields on a single open access platform.</p> <p>At BMC, research is always in progress. We are committed to continual innovation to better support the needs of our communities, ensuring the integrity of the research we publish, and championing the benefits of open research. BMC is part of Springer Nature.</p>
BMJ	BMJ's Coronavirus (covid-19) Hub	<a href="https://www.bmj.com/coronavirus">https://www.bmj.com/coronavirus</a>	<p>BMJ started out 180 years ago as a medical journal, publishing articles on stillborn children, amputation at the shoulder and the climate of the Isle of Wight. Now, as a values-driven company and global brand, we work toward our vision for "a healthier world." We do this by partnering with more than 8,000 medical organisations worldwide so they can provide their users with the best available resources. We make our content available in 14 languages, and create evidence-based subscription-based products to help clinicians better tackle today's most critical healthcare challenges. It is inspiring to see the rapid growth of students and qualified doctors around the globe progressing their careers and achieving accreditation with our e-learning modules and events.</p> <p>BMJ expertise extends from publishing and medical education to clinical decision support and events to enhance day to day decision-making and healthcare delivery. Whilst our focus remains unchanged, we continuously adapt to the changing research landscape by remaining innovative and competitive.</p> <p>Support for health professionals and researchers with practical guidance, online CPD courses, and news;</p> <p>Make the most of your institutional subscription today.</p>
CDC	Centers for Disease Control and Prevention	<a href="https://www.cdc.gov/coronavirus/2019-ncov/index.html">https://www.cdc.gov/coronavirus/2019-ncov/index.html</a>	<p>CDC provides guidance on a variety of topics to help prevent the spread of COVID-19. A comprehensive review of CDC's existing COVID-19 guidance to ensure they were evidence-based and free of politics.</p> <p>Guidance by Audience:</p> <ul style="list-style-type: none"> <li>• briefcase light iconEmployers, Business Owners &amp; Community Leaders</li> <li>• school light iconEducators &amp; School Administrators</li> <li>• user light iconIndividuals &amp; Consumers</li> <li>• hand holding heart light iconParents &amp; Caregivers</li> <li>• hospital user light iconHealthcare Professionals</li> <li>• notes medical light iconHealth Departments</li> <li>• landmark light iconFederal, State &amp; Local Government</li> <li>• hotel light iconTribal Agencies</li> <li>• globe africa light iconGlobal Health</li> </ul> <p>Guidance by Topic:</p> <ul style="list-style-type: none"> <li>• clinical care</li> <li>• prevention &amp; infection control</li> <li>• disease information</li> <li>• k-12 school</li> <li>• business &amp; workplace safety</li> <li>• travels</li> <li>• vaccines</li> <li>• testing</li> </ul>
CERN	CERN against COVID-19	<a href="https://againstcovid19.cern">https://againstcovid19.cern</a>	<p>CERN's Director-General established the CERN against COVID-19 task force in March 2020 to collect and coordinate ideas and contributions from the CERN community of over 18 000 people worldwide to the societal fight against the COVID-19 pandemic. These initiatives will draw on scientific and technical expertise and facilities at CERN, in the Member State countries and beyond, and will be carried out with that community and in close contacts with the relevant health institutions and experts from other fields.</p> <p>Cochrane is an international network but with headquarters in the UK, it is registered as a not-for-profit organization.</p>
Cochrane	Cochrane	<a href="https://www.cochrane.org/our-evidence/coronavirus-covid-19-resources">https://www.cochrane.org/our-evidence/coronavirus-covid-19-resources</a>	<p>Cochrane is for anyone interested in using high-quality information to make health decisions. Whether you are a doctor or nurse, patient or carer, researcher or funder, Cochrane evidence provides a powerful tool to enhance your healthcare knowledge and decision making.</p> <p>Cochrane's members and supporters come from more than 130 countries, worldwide. Their volunteers and contributors are researchers, health professionals, patients, carers, and people passionate about improving health outcomes for everyone, everywhere.</p>
COVID-NMA	Mapping database	<a href="https://covid-nma.com/datasharing/">https://covid-nma.com/datasharing/</a>	<p>Every week we screen the WHO International Clinical Trials Registry Platform (ICTRP) to identify and extract data from RCTs evaluating the effectiveness of interventions for preventing and treating COVID-19 as well as of all trials assessing vaccines. This data is being used to develop our two living data visualizations of treatments and vaccines. This database includes a detailed list of all the RCTs we have identified, including their characteristics (i.e. registration, study design, study aim, funding, country, etc.). This file is updated once a week.</p>
covid19dataportal	covid19dataportal	<a href="https://www.covid19dataportal.org">https://www.covid19dataportal.org</a>	<p>The European COVID-19 Data Platform facilitates data sharing and analysis in order to accelerate coronavirus research. The Data Portal brings together and continuously updates the relevant COVID-19 datasets and tools.</p>
EAHP	EAHP COVID-19 Resource Centre	<a href="https://www.eahp.eu/hp-practice/hospital-pharmacy/eahp-covid-19-resource-centre-covid-19-vaccines">https://www.eahp.eu/hp-practice/hospital-pharmacy/eahp-covid-19-resource-centre-covid-19-vaccines</a>	<p>The European Association of Hospital Pharmacists represents more than 23,000 hospital pharmacists in 35 European countries and is the only association of national organisations representing hospital pharmacists at European and international levels.</p>
EATRIS	EATRIS	<a href="https://eatris.eu/insights/eatris-covid-19/">https://eatris.eu/insights/eatris-covid-19/</a>	<p>Translational research is a highly multi-disciplinary and complex undertaking. As a consequence, a major challenge in developing new innovations is understanding what steps need to be taken, and what expertise and technologies are suitable to perform these steps. Researchers in need of specialised support can approach EATRIS to provide guidance in the steps to be taken, by means of clinical, biological and technical expertise available within the infrastructure. Subsequently, EATRIS will match the need with the capabilities within the infrastructure. In this way, EATRIS facilitates collaboration among academics, physicians, and developers.</p>
Ebsco	Academic Search Complete	<a href="https://www.ebsco.com/products/research-databases/academic-search-complete">https://www.ebsco.com/products/research-databases/academic-search-complete</a>	<p>Academic Search Complete offers an enormous collection of full-text journals, providing users access to critical information from many sources unique to this database. In addition, it includes peer-reviewed full text for STEM research, as well as for the social sciences and humanities. Scholarly content covers a broad range of important areas of academic study, including anthropology, engineering, law, sciences and more.</p>
ECDC	European Centre for Disease Prevention and Control	<a href="https://www.ecdc.europa.eu/en/covid-19">https://www.ecdc.europa.eu/en/covid-19</a>	<p>The European Centre for Disease Prevention and Control (ECDC) is an agency of the European Union (EU) whose mission is to strengthen Europe's defences against infectious diseases.[2] It covers a wide spectrum of activities, such as: surveillance, epidemic intelligence, response, scientific advice, microbiology, preparedness, public health training, international relations, health communication, and the scientific journal Eurusurveillance.</p>
ECRIN	European Clinical Research Infrastructure Network	<a href="https://ecrin.org">https://ecrin.org</a>	<p>The European Clinical Research Infrastructure Network (ECRIN) is a not-for-profit intergovernmental organisation that supports the conduct of multinational clinical trials in Europe. As of 2013, ECRIN has the legal status of a European Research Infrastructure Consortium (ERIC).</p> <p>Based in Paris, we work with European Correspondents across Europe, national networks of clinical trial units (CTUs), as well as numerous European and international stakeholders involved in clinical research.</p>
EDP	European Data Portal	<a href="https://www.europeandataportal.eu/datasets/e42a17f4-b29e-4f02-8520-7d2ceabd66c9?locale=en">https://www.europeandataportal.eu/datasets/e42a17f4-b29e-4f02-8520-7d2ceabd66c9?locale=en</a>	<p>The European Data Portal harvests the metadata of Public Sector Information available on public data portals across European countries. Information regarding the provision of data and the benefits of re-using data is also included. Interactive self-analysis of Covid-19 European data by country and time. Indicators: positives, recovered, fatalities, hospitalized and intensive care in absolute value, by population, and by number of positives existed in the observed period. Real time updated.</p>



			<p>Digital revolution is a transversal phenomenon to many sectors and healthcare is no exception. In the eHealth Action we embrace change, looking forward to contributing to better healthcare in Europe.</p> <p>With a Consortium composed by representatives from 30 EU countries, the eHealth Action aims to reflect digital health importance as a complementary resource for public health and services.</p> <p>Exploring technologies and tools to facilitate chronic disease management, increasing the sustainability and effectiveness of health systems, enabling personalized care and empowering people is what we are striving for.</p> <p>The Joint Action is developing strategic guidance and tools in the following Priority Areas:</p> <p><b>Empowering people</b> Enabling patients' control over their own health, through informed and sustainable uptake of digital tools in healthcare;</p> <p><b>Innovative use of health data</b> Developing methodologies to better handle big data in health;</p> <p><b>Enhancing continuity of care</b> Supporting eHealth Digital Service Infrastructure uptake;</p> <p><b>Overcoming implementation challenges</b> Developing guidelines for interoperability, data protection and systems security in healthcare;</p> <p><b>Integration in national policies &amp; sustainability</b> Preparing post-2021 cross-border policy cooperation and integration of its results in national policies.</p>
EHACTION	Joint Action Supporting the eHealth Network	<a href="http://ehaction.eu/">http://ehaction.eu/</a>	
EHTEL	Collaborating for Digital Health and Care in Europe	<a href="https://www.ehtel.eu/">https://www.ehtel.eu/</a>	<p>EHTEL (the European Health Telematics Association) is a unique pan-European multidisciplinary stakeholder organisation, which brings together corporate, institutional, and individual actors dedicated to the improvement of healthcare delivery through digital health.</p> <p>EHTEL's distinctive structure enables the exchange of ideas and information leading to innovation in the delivery of eHealth solutions and the transformation of health and social care. EHTEL facilitates interactions and sharing of knowledge among stakeholder groups. The association acts as a neutral forum, not as a lobbying group.</p> <p>EHTEL's growing membership includes more than 50 organisations from all relevant stakeholder groups. The multitude of interests and viewpoints of its members enables EHTEL to take a holistic approach on the implementation of eHealth solutions.</p> <p>EHTEL provides a complete picture of the benefits and challenges of the deployment of ICT in the fields of health and social care, and it identifies opportunities and topics for its members that require attention and further development at European level.</p> <p>EHTEL engages in collaborations with European associations representing hospitals, health insurers, physicians, pharmacists, nurses, patients and citizens, as well as with professional associations dedicated to the quality and certification of care processes and eHealth services.</p> <p><b>EHTEL works to</b></p> <ul style="list-style-type: none"> <li>•Support European initiatives and policies aimed at increasing the constituency of eHealth in Europe. EHTEL collects and distils the voices of its members through position papers, briefing papers, and publications. It has several Working Groups and Task Forces that focus on specific issues crucial to the deployment of ICT-based innovative healthcare services in the European arena.</li> <li>•Provide expert advice, educational services, and insights on the latest regulatory, strategic, and business-oriented developments in the field of digital healthcare.</li> <li>•Support European co-funded projects in developing new knowledge and a complete understanding of the challenges and opportunities involved in the deployment of eHealth services in health and social care.</li> <li>•Provide a networking platform where stakeholders from all sorts of backgrounds can discuss common challenges, explore new solutions, and share information, experiences, and lessons learned.</li> </ul>
Elsevier	Science Direct	<a href="https://www.sciencedirect.com/search">https://www.sciencedirect.com/search</a>	The advanced search form offers an open design which allows you to specify one or more pieces of information to find related documents in ScienceDirect. You can easily build an explicit query using multiple Boolean operators and nested clauses in your search.
EMA	European Medicines Agency	<a href="https://www.ema.europa.eu/en">https://www.ema.europa.eu/en</a>	The European Medicines Agency (EMA) is contributing to global efforts to save lives during the COVID-19 pandemic by expediting the development and approval of safe and effective treatments and vaccines, supporting the continued availability of medicines in the European Union (EU), and providing reliable information to patients and healthcare professionals.
Embase (Elsevier)	<b>Registration is needed</b>	<a href="https://www.embase.com/#search">https://www.embase.com/#search</a>	Embase is a highly versatile, multipurpose and up-to-date biomedical research and literature database. Embase allows you to build comprehensive systematic reviews so that you can thoroughly study all of the published literature on a particular topic and make the best-informed evidence-based medicine decisions. It covers the most important international biomedical literature from 1947 to the present day and all articles are indexed in depth using Elsevier's Life Science thesaurus Embase Indexing and Entree®. Embase provides a list of subject headings unique to Embase. Biomedical terms are organized by broader and narrower terms as Embase subject headings will retrieve most associated synonyms for the entered term.
ENA	European Nucleotide Archive	<a href="https://www.ebi.ac.uk/ena/browser/home">https://www.ebi.ac.uk/ena/browser/home</a>	The European Nucleotide Archive (ENA) provides a comprehensive record of the world's nucleotide sequencing information, covering raw sequencing data, sequence assembly information and functional annotation
EPF	European Patients Forum	<a href="https://www.eu-patient.eu/COVID-19/">https://www.eu-patient.eu/COVID-19/</a>	The European Patients' Forum (EPF) is an independent non-profit, non-governmental umbrella organisation of patient organisations across Europe and across disease-areas. Our 75 members include disease-specific patient groups active at EU level and national coalitions of patients.
ERIC	Institute of Education Sciences, Education Resources Information Center	<a href="https://eric.ed.gov">https://eric.ed.gov</a>	Education Resources Information Center, ERIC has five main user groups: academics, researchers, educators, policymakers, and the general public. ERIC does not hold copyright to the materials indexed in the collection.
EU ODP	EU Open Data portal	<a href="https://data.europa.eu/cuodp/en/data/dataset/covid-19-coronavirus-data">https://data.europa.eu/cuodp/en/data/dataset/covid-19-coronavirus-data</a>	The European Union Open Data Portal (EU ODP) gives you access to open data published by EU institutions and bodies. All the data you can find via this catalogue are free to use and reuse for commercial or non-commercial purposes.
EULAR	European Alliance of Associations for Rheumatology COVID Database	<a href="https://www.eular.org/eular_covid19_database.cfm">https://www.eular.org/eular_covid19_database.cfm</a>	The European Alliance of Associations for Rheumatology, EULAR, is the organisation which represents the people with arthritis/rheumatism, health professionals in rheumatology (HPR) and scientific societies of rheumatology of all the European nations.
EUnetHTA	European Network for Health Technology Assessment <b>Registration is needed</b>	<a href="https://www.eunetha.eu/">https://www.eunetha.eu/</a>	<p><b>Vision:</b> EUnetHTA is the preferred facilitator of high-quality HTA collaboration in Europe. HTA agencies consider EUnetHTA an efficient way of collaborating.</p> <p><b>Mission:</b> The mission of EUnetHTA is to support collaboration between European HTA organisations that brings added value to healthcare systems at the European, national, and regional level. Through its activities, EUnetHTA:</p> <ul style="list-style-type: none"> <li>- Supports efficient production and use of HTA in countries across Europe</li> <li>- Provides an independent and science-based platform for HTA agencies in countries across Europe to exchange and develop HTA information and methodology</li> <li>- Provides an access point for communication with stakeholders to promote transparency, objectivity, independence of expertise, fairness of procedure and appropriate stakeholder consultations</li> <li>- Develops alliances with contributing fields of research to support a stronger and broader evidence base for HTA while using the best available scientific competence.</li> </ul> <p><b>Values:</b></p> <ul style="list-style-type: none"> <li>- European Union values for health systems – Universality, access to good quality care, equity, and solidarity</li> <li>- Efficiency in HTA production</li> <li>- Sustainability of healthcare systems</li> <li>- The principle of subsidiarity of the European Union</li> <li>- The use of best evidence, common methodological standards, trust and transparency.</li> </ul> <p>EUnetHTA finds it important to recognise and facilitate solutions to overcome barriers caused by language, variations in terminology, and culture.</p>
EUPHA	European Public Health Association	<a href="https://eupha.org/covid-19-updates">https://eupha.org/covid-19-updates</a>	The European Public Health Association, or EUPHA in short, is an umbrella organisation for public health associations and institutes in Europe. EUPHA was founded in 1992 by 15 members (12 countries). EUPHA now has 80 members from 47 countries. EUPHA is an international, multidisciplinary, scientific organisation, bringing together around 23'000 public health experts for professional exchange and collaboration throughout Europe. We encourage a multi-disciplinary approach to public health.
EUR-Lex	EUR-Lex	<a href="https://eur-lex.europa.eu/search.html?orNDNGroup=C%3A%3DCOVID19&amp;qid=1455633998284&amp;CASE_LAW_SUMMARY=false&amp;DTS.DOM=ALL&amp;typeOfActStatus=OTHER&amp;ty penAdvanced&amp;lang=en&amp;SUBDOM_INIT=ALL_ALL&amp;DTS_SUBDOM=ALL_ALL">https://eur-lex.europa.eu/search.html?orNDNGroup=C%3A%3DCOVID19&amp;qid=1455633998284&amp;CASE_LAW_SUMMARY=false&amp;DTS.DOM=ALL&amp;typeOfActStatus=OTHER&amp;ty penAdvanced&amp;lang=en&amp;SUBDOM_INIT=ALL_ALL&amp;DTS_SUBDOM=ALL_ALL</a>	EUR-Lex is your online gateway to EU Law. It provides the official and most comprehensive access to EU legal documents.
Euro-SHARE-ERIC	Survey of Health, Ageing and Retirement in Europe (Multidisciplinary and cross-national panel database of microdata of individuals aged 50 or older)	<a href="http://www.share-project.org/share-covid19.html">http://www.share-project.org/share-covid19.html</a> <a href="http://roadmap2018.esfri.eu/projects-and-landmarks/browse-the-catalogue/share-eric/">http://roadmap2018.esfri.eu/projects-and-landmarks/browse-the-catalogue/share-eric/</a>	The Survey of Health, Ageing and Retirement in Europe (SHARE) is a multidisciplinary database of microdata on health, socio-economic status, social and family networks of more than 120.000 individuals from 27 European countries plus Israel, aged 50 or older. SHARE aims at documenting and better understanding the repercussions of demographic ageing for individuals and the European society as a whole, and forming a sound scientific basis for countermeasures adopted by health and social policy. SHARE's scientific method is based on a panel design that grasps the dynamic character of the population ageing process in all relevant aspects. Rigorous procedural guidelines and program ensure an ex-ante harmonized cross-national design. The data are harmonised with the US Health and Retirement Study (HRS) and the English Longitudinal Study of Ageing (ELSA) and are accessible free of charge to the scientific community. SHARE was identified as successfully implemented in the ESFRI Roadmap 2010 and was the first RI to be established as European Research Infrastructure Consortium (ERIC) in March 2011.
Euro-Peristat	European Perinatal Health	<a href="https://www.europeristat.com/">https://www.europeristat.com/</a>	<p>The objective of the Euro-Peristat Network is to establish a high quality, innovative, internationally recognized and sustainable European perinatal information system. This system's goal is to produce data and analysis on a regular basis for use by national, European and international stakeholders who make decisions about the health and health care of pregnant women and newborns.</p> <p>Euro-Peristat began in 1999 as part of the EU's Health Monitoring Programme and now has official representation from 31 countries across Europe and a large network of contributing experts.</p> <p>We developed a list of recommended indicators for perinatal health surveillance and have collected data on these indicators. Our data on mothers' and babies' health status and care in Europe have been the basis of many scientific publications. We have published European Perinatal Health Reports in 2008, 2013 and 2018.</p> <p>The project is coordinated by Inserm, the French National Institute of Health and Medical Research, in Paris. The project receives funding from the European Commission Directorate for Health and Food Safety. We are part of the InfAct Project to promote sustainable health reporting in Europe.</p> <p>We have been featured as one of the 20 successful projects funded by the EU Health Programmes.</p>
EUROFOUND	European Foundation for the Improvement of Living and Working Conditions	<a href="https://www.eurofound.europa.eu">https://www.eurofound.europa.eu</a>	Eurofound is the EU Agency for the improvement of living and working conditions. Eurofound's priorities for 2021–2024 are shaped by the key challenges for social cohesion and just transitions in a changing environment in the aftermath of the COVID-19 crisis. The Agency focuses on issues where it can draw on its core expertise in the areas of working conditions, industrial relations, employment and living conditions, to support its stakeholders, by providing evidence that can assist their policy action.
EuroMOMO	EuroMOMO	<a href="https://www.euromomo.eu">https://www.euromomo.eu</a>	EuroMOMO is a European mortality monitoring activity, aiming to detect and measure excess deaths related to seasonal influenza, pandemics and other public health threats.
			Official national mortality statistics are provided weekly from the 27 European countries in the EuroMOMO collaborative network, supported by the European Centre for Disease Prevention and Control (ECDC) and the World Health Organization (WHO), and hosted by Statens Serum Institut, Denmark.

Europe PMC	Europe PMC	<a href="https://europepmc.org">https://europepmc.org</a>	Europe PMC is an open science platform that enables access to a worldwide collection of life science publications and preprints from trusted sources around the globe. Europe PMC is developed by EMBL-EBI. It is a partner of PubMed Central and a repository of choice for many international science funders. Eurostat is the statistical office of the European Union. The mission is to provide high quality statistics and data on Europe.
Eurostat	European Statistics	<a href="https://ec.europa.eu/eurostat">https://ec.europa.eu/eurostat</a>	Eurostat produces European statistics in partnership with National Statistical Institutes and other national authorities in the EU Member States. This partnership is known as the European Statistical System (ESS). It also includes the statistical authorities of the European Economic Area (EEA) countries and Switzerland. Eurostat coordinates statistical activities at Union level and more particularly inside the Commission. The Global Index Medicus (GIM) provides worldwide access to biomedical and public health literature produced by and within low-middle income countries. The main objective is to increase the visibility and usability of this important set of resources. The material is collated and aggregated by WHO Regional Office Libraries on a central search platform allowing retrieval of bibliographical and full text information.
GIM - WHO	Global Index Medicus	<a href="https://www.globalindexmedicus.net/">https://www.globalindexmedicus.net/</a>	
HBSC	Health Behaviour In School-Aged Children	<a href="http://www.hbsc.org/">http://www.hbsc.org/</a>	Since 1982 HBSC has been a pioneer cross-national study gaining insight into young people's well-being, health behaviours and their social context. This research collaboration with the WHO Regional Office for Europe is conducted every four years in 50 countries and regions across Europe and North America. With children and young people accounting for 42% of our world's population, HBSC uses its findings to inform policy and practice to improve the lives of millions of young people.
HMA	Heads of Medicine Agency	<a href="https://www.hma.eu">https://www.hma.eu</a>	The Heads of Medicines Agencies (HMA) is a network of the heads of the National Competent Authorities (NCA) whose organisations are responsible for the regulation of medicinal products for human and veterinary use in the European Economic Area.
HSRM	The Health System Response Monitor	<a href="https://www.covid19healthsystem.org/mainpage.aspx">https://www.covid19healthsystem.org/mainpage.aspx</a>	The HMA co-operates with the European Medicines Agency (EMA) and the European Commission in the operation of the European medicines regulatory network and it is a unique model for cooperation and working on statutory as well as voluntary regulatory activities. The Health System Response Monitor (HSRM) has been designed in response to the COVID-19 outbreak to collect and organize up-to-date information on how countries are responding to the crisis. It focuses primarily on the responses of health systems but also captures wider public health initiatives. This is a joint undertaking of the WHO Regional Office for Europe, the European Commission, and the European Observatory on Health Systems and Policies.
Interreurope	Interreg Europe	<a href="https://www.interreurope.eu/covid-19/">https://www.interreurope.eu/covid-19/</a>	Interreg Europe helps regional and local governments across Europe to develop and deliver better policy. As a reference programme for European regional policymakers they support their community of 17 000 members for a fast recovery from the global COVID-19 pandemic and its consequences. On this page, you will find information about how they can help you and how you can get involved. Have a look at: Good practices from all across Europe that can help you mitigate the pandemic's effects Online Thematic activities to inspire you and help you find solutions to common challenges Tailored support from our Policy Learning Platform experts Related news and events published by us, our projects and other institutions
LS RIs Respond to COVID-19	European Life Science Research Infrastructures	<a href="https://lifescience-ri.eu/ls-ri-response-to-covid-19.html">https://lifescience-ri.eu/ls-ri-response-to-covid-19.html</a>	To support the global effort to tackle the coronavirus pandemic, Life Sciences Research Infrastructures (LS RIs) are prioritising COVID-19 research, as detailed in the actions below. The benefits of using established Research Infrastructures are clear: they are ready and able to provide expert advice and resources to meet a variety of research needs. Although in-person visits to facilities may be restricted, many infrastructure services are still available via remote access and, where possible, the cost of access will be minimised or waived.
MediSys	Medical Information System (MediSys)	<a href="https://ec.europa.eu/irc/en/scientific-tool/medical-information-system">https://ec.europa.eu/irc/en/scientific-tool/medical-information-system</a>	The Medical Information System (MediSys) is a fully automatic 24/7 public health surveillance system monitoring infectious diseases, bioterrorism, and chemical, biological, radiological and nuclear (CBRN) threats in open-source media. MediSys became online in August 2004 and has been continuously extended.
Medline (Ovid)	<b>Registration is needed</b>	<a href="https://www.wolterskluwer.com/en/solutions/ovid/901">https://www.wolterskluwer.com/en/solutions/ovid/901</a>	Ovid helps researchers, librarians, clinicians, and other healthcare professionals find important medical information so that they can make critical decisions to improve patient care, enhance ongoing research, and fuel new discoveries. Ovid offers a market-leading medical research platform of premium aggregated content and productivity tools that make it easy to quickly search information and make informed decisions on patient care, quality, and clinical outcomes.
medRxiv	The preprint server for health sciences	<a href="https://www.medrxiv.org/">https://www.medrxiv.org/</a>	medRxiv (pronounced "med-archiv") is a free online archive and distribution server for complete but unpublished manuscripts (preprints) in the medical, clinical, and related health sciences. Preprints are preliminary reports of work that have not been certified by peer review. They should not be relied on to guide clinical practice or health-related behavior and should not be reported in news media as established information. medRxiv is for the distribution of preprints - complete but unpublished manuscripts - that describe human health research conducted, analyzed, and interpreted according to scientific principles. Research articles, systematic reviews and meta-analyses, clinical research design protocols and data articles may be posted. MedRxiv is not intended for case reports (single or in series), narrative reviews (see below), editorials, letters, opinion pieces and hypotheses that lack data, work not premised on modern biology/physiology or allopathic medicine, laboratory protocols/recipes, theses, term papers, textbook excerpts or individual components of research articles such as figures, tables, and datasets. medRxiv was founded by Cold Spring Harbor Laboratory (CSHL), a not-for-profit research and educational institution, Yale University, and BfM, a global healthcare knowledge provider. The server is owned and operated by CSHL. medRxiv provides a platform for researchers to share, comment, and receive feedback on their work prior to journal publication. medRxiv aims to improve the openness and accessibility of scientific findings, enhance collaboration among researchers, document provenance of ideas, and inform ongoing and planned research through more timely reporting of completed research. medRxiv is a non-profit community resource and is not linked to any one publisher or journal. Articles on medRxiv are not certified by peer review, edited, or typeset before being posted online. All manuscripts undergo a basic screening process for offensive and/or non-scientific content and for material that might pose a health risk and are checked for plagiarism. No endorsement of a manuscript's methods, assumptions, conclusions, or scientific quality by CSHL, Yale University, or BfM is implied by its appearance in medRxiv. A manuscript may be submitted prior to, or concurrently with, submission to a journal but will not be posted if it has already been accepted for publication, published, or posted elsewhere. Authors may submit a revised version of a manuscript to medRxiv at any time (prior to the manuscript's acceptance for publication in a journal). Once posted on medRxiv, manuscripts receive a digital object identifier (DOI), so are discoverable, citable, and indexed by numerous search engines and third-party services and cannot be removed. medRxiv reserves the right to decline to post any preprint for any reason.
Ministry of Health	PHIRI Participating Countries		
N3C	National COVID Cohort Collaborative (N3C)	<a href="https://covid.cd2h.org">https://covid.cd2h.org</a>	The National COVID Cohort Collaborative (N3C) is a complementary and synergistic partnership among the Clinical and Translational Science Awards (CTSA) Program hubs, the National Center for Data to Health (CD2H), distributed clinical data networks (PCORnet, OHDSI, ACT/2b2, TriNetX), and other partner organizations, with overall stewardship by NIH's National Center for Advancing Translational Sciences. The N3C aims to improve the efficiency and accessibility of analyses using a very large row-level (patient-level) COVID-19 clinical dataset and demonstrate a novel approach for collaborative pandemic data sharing.
OECD	OECD	<a href="https://www.oecd.org/health/health-at-a-glance-europe/">https://www.oecd.org/health/health-at-a-glance-europe/</a>	The Organisation for Economic Co-operation and Development (OECD) is an international organisation that works to build better policies for better lives. Our goal is to shape policies that foster prosperity, equality, opportunity and well-being for all. We draw on 60 years of experience and insights to better prepare the world of tomorrow. Together with governments, policy makers and citizens, we work on establishing evidence-based international standards and finding solutions to a range of social, economic and environmental challenges. From improving economic performance and creating jobs to fostering strong education and fighting international tax evasion, we provide a unique forum and knowledge hub for data and analysis, exchange of experiences, best-practice sharing, and advice on public policies and international standard-setting. The Organisation for Economic Co-operation and Development (OECD) is an international organisation that works to build better policies for better lives. Our goal is to shape policies that foster prosperity, equality, opportunity and well-being for all. We draw on 60 years of experience and insights to better prepare the world of tomorrow. Together with governments, policy makers and citizens, we work on establishing evidence-based international standards and finding solutions to a range of social, economic and environmental challenges. From improving economic performance and creating jobs to fostering strong education and fighting international tax evasion, we provide a unique forum and knowledge hub for data and analysis, exchange of experiences, best-practice sharing, and advice on public policies and international standard-setting.
OECD	OECD	<a href="https://www.oecd.org/health/health-at-a-glance-europe/">https://www.oecd.org/health/health-at-a-glance-europe/</a>	Together with governments, policy makers and citizens, we work on establishing evidence-based international standards and finding solutions to a range of social, economic and environmental challenges. From improving economic performance and creating jobs to fostering strong education and fighting international tax evasion, we provide a unique forum and knowledge hub for data and analysis, exchange of experiences, best-practice sharing, and advice on public policies and international standard-setting. The Organisation for Economic Co-operation and Development (OECD) is an international organisation that works to build better policies for better lives. Our goal is to shape policies that foster prosperity, equality, opportunity and well-being for all. We draw on 60 years of experience and insights to better prepare the world of tomorrow. Together with governments, policy makers and citizens, we work on establishing evidence-based international standards and finding solutions to a range of social, economic and environmental challenges. From improving economic performance and creating jobs to fostering strong education and fighting international tax evasion, we provide a unique forum and knowledge hub for data and analysis, exchange of experiences, best-practice sharing, and advice on public policies and international standard-setting.
OECD	OECD	<a href="https://www.oecd.org/health/health-at-a-glance-europe/">https://www.oecd.org/health/health-at-a-glance-europe/</a>	Together with governments, policy makers and citizens, we work on establishing evidence-based international standards and finding solutions to a range of social, economic and environmental challenges. From improving economic performance and creating jobs to fostering strong education and fighting international tax evasion, we provide a unique forum and knowledge hub for data and analysis, exchange of experiences, best-practice sharing, and advice on public policies and international standard-setting.
OVID Medline 1946- Present	<b>Registration is needed</b>	<a href="https://databases.library.jhu.edu/databases/proxy/JHU06859">https://databases.library.jhu.edu/databases/proxy/JHU06859</a>	Ovid MEDLINE covers the international literature on biomedicine, including the allied health fields and the biological and physical sciences, humanities, and information science as they relate to medicine and health care. Information is indexed from approximately 5,400 journals published world-wide. To support research efforts to understand more about the SARS-CoV-2 virus and the structures of its proteins, PDBe has created dedicated PDBe-KB pages to highlight important structural features from released PDB entries. These pages include all observed ligand binding sites and protein-protein interaction residues, to help researchers easily identify important structural features to support the development of treatments and vaccines.
PDBe	Protein Data Bank in Europe COVID 19 Data Portal	<a href="https://www.ebi.ac.uk/pdbe/covid-19">https://www.ebi.ac.uk/pdbe/covid-19</a>	
Public Health Institutes	PHIRI Participating Countries		
PubMed	National Library of Medicine	<a href="https://pubmed.ncbi.nlm.nih.gov/">https://pubmed.ncbi.nlm.nih.gov/</a>	PubMed comprises more than 32 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full text content from PubMed Central and publisher web sites.
RD-Alliance	RD-Alliance	<a href="https://www.rd-alliance.org/system/files/documents/H2020_Guidelines_COVID19_EC.pdf">https://www.rd-alliance.org/system/files/documents/H2020_Guidelines_COVID19_EC.pdf</a>	Guidelines for open access to publications, data and other research outputs
RDA-COVID 19	RDA-COVID 19	<a href="https://www.rd-alliance.org/groups/rda-covid19">https://www.rd-alliance.org/groups/rda-covid19</a>	The overarching objectives of this Working Group (WG) are: To clearly define detailed guidelines on data sharing under the present COVID-19 circumstances to help stakeholders follow best practices to maximize the efficiency of their work, To develop guidelines for policymakers to maximise timely data sharing and appropriate responses in such health emergencies, and To address the interests of researchers, policy makers, funders, publishers, and providers of data sharing infrastructure. The overall goal of RECOVER is to understand the COVID-19 pandemic through clinical research in order to transform patient care and public health responses.
Recover	Recover Europe	<a href="https://www.recover-europe.eu">https://www.recover-europe.eu</a>	
SPRINGERlink	eLibrary	<a href="https://link.springer.com/">https://link.springer.com/</a>	Over 10 million scientific documents at fingertips; providing researchers with access to millions of scientific documents from journals, books, series, protocols, reference works and proceedings

SSRN	eLibrary	<a href="https://papers.ssrn.com/sol3/DisplayAbstractSearch.cfm">https://papers.ssrn.com/sol3/DisplayAbstractSearch.cfm</a> <a href="https://www.ssrn.com/index.cfm/en/coronavirus/">https://www.ssrn.com/index.cfm/en/coronavirus/</a>	SSRN's Coronavirus & Infectious Disease Research Hub provides a curated view into new early-stage research to help researchers, public health authorities, clinicians, and the public understand, contain, and manage this disease. Rapidly evolving healthcare emergencies necessitate the quick dissemination of research. The growing role of early-stage research and preprints was acknowledged in the Ebola and Zika virus outbreaks as a way of accelerating the dissemination of scientific findings to support responses to infectious disease outbreaks*. SSRN, Elsevier's world-leading platform devoted to the rapid worldwide dissemination of early-stage research, is committed to making coronavirus-related research available quickly. SSRN's eLibrary provides 950,733 research papers from 503,172 researchers in more than 60 disciplines.
TESSy	The European Surveillance System	<a href="https://www.ecdc.europa.eu/en/publications-data/european-surveillance-system-tesy">https://www.ecdc.europa.eu/en/publications-data/european-surveillance-system-tesy</a>	The technical platform for web-based data submission, data storage and dissemination is The European Surveillance System (TESSy): a password-protected, fully anonymised database hosted by ECDC.
UniProt	UniProt	<a href="https://www.uniprot.org">https://www.uniprot.org</a>	The mission of UniProt is to provide the scientific community with a comprehensive, high-quality and freely accessible resource of protein sequence and functional information. New UniProt portal for the latest SARS-CoV-2 coronavirus protein entries and receptors, updated independent of the general UniProt release cycle.
WHO	World Health Organization	<a href="https://covid19.who.int">https://covid19.who.int</a>	The World Health Organization (WHO) is a specialized agency of the United Nations responsible for international public health.[1] The WHO Constitution, which establishes the agency's governing structure and principles, states its main objective as "the attainment by all peoples of the highest possible level of health".
Zenodo	Coronavirus Disease Research Community - COVID-19	<a href="https://zenodo.org/communities/covid-19">https://zenodo.org/communities/covid-19</a>	This community collects research outputs that may be relevant to the Coronavirus Disease (COVID-19) or the SARS-CoV-2. Scientists are encouraged to upload their outcome in this collection to facilitate sharing and discovery of information. Although Open Access articles and datasets are recommended, also closed and restricted access material are accepted. All types of research outputs can be included in this Community (Publication, Poster, Presentation, Dataset, Image, Video/Audio, Software, Lesson, Other). The Coronavirus Disease Research Community - COVID-19 is curated by a selected team of experts nominated by OpenAIRE. OpenAIRE is the largest aggregator of European Commission funded research outputs and beyond, also delivering on-demand services for research communities.

And a catalogue about health information sources from member states: [https://ec.europa.eu/eurostat/documents/747709/753176/20190607\\_list\\_other\\_national\\_statistical\\_authorities\\_IT.pdf/13c3bdf-c378-4203-92a2-48d0dd789f3d](https://ec.europa.eu/eurostat/documents/747709/753176/20190607_list_other_national_statistical_authorities_IT.pdf/13c3bdf-c378-4203-92a2-48d0dd789f3d)

COVID-19 ICU-CARE	COVID-19 ICU-CARE – A ground-breaking ICU bed-side COVID-19 trachea flushing system that can cut healthcare costs and reduce COVID-19 spread between ICU patients and staff	<a href="https://cordis.europa.eu/project/id/959886">https://cordis.europa.eu/project/id/959886</a>	COVID-19 patients requiring a mechanical ventilator for respiratory support must have their airways cleared from secretions and mucus on a daily basis to prevent infection. Existing suctioning techniques are not efficient and carry a high risk of spreading COVID-19 amongst ICU patients and staff. The EU-funded COVID-19 ICU-CARE project is working on a patented suctioning assist system, TrachFlush, already validated in general ICU patients. The system automatically flushes all secretions out of the airways at a reduced cost and with low risk of contamination. In collaboration with leading hospitals across Europe, the project will carry out a large clinical study to demonstrate the efficiency and safety of using this innovative tool with COVID-19 patients.
EXSCALATE4CoV	EXaScale smArt platform Against paThogEns for Corona Virus	<a href="https://cordis.europa.eu/project/id/101003551">https://cordis.europa.eu/project/id/101003551</a>	Advanced computer-aided drug design (CADD) has come to revolutionise drug discovery, and in combination with high-throughput biochemical and phenotypic screening, it allows the rapid evaluation of new drugs. Scientists of the EU-funded EXSCALATE4CoV project will employ the EXSCALATE platform containing the most promising commercialised drugs safe in man, to identify specific inhibitors against COVID-19. The strategy entails the computational alignment of these drugs against 3D models for the viral proteins, followed by biochemical assays and phenotypic screening of the most promising candidates. Molecules capable of blocking virus replication will be forwarded for development and registration.

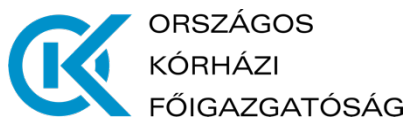
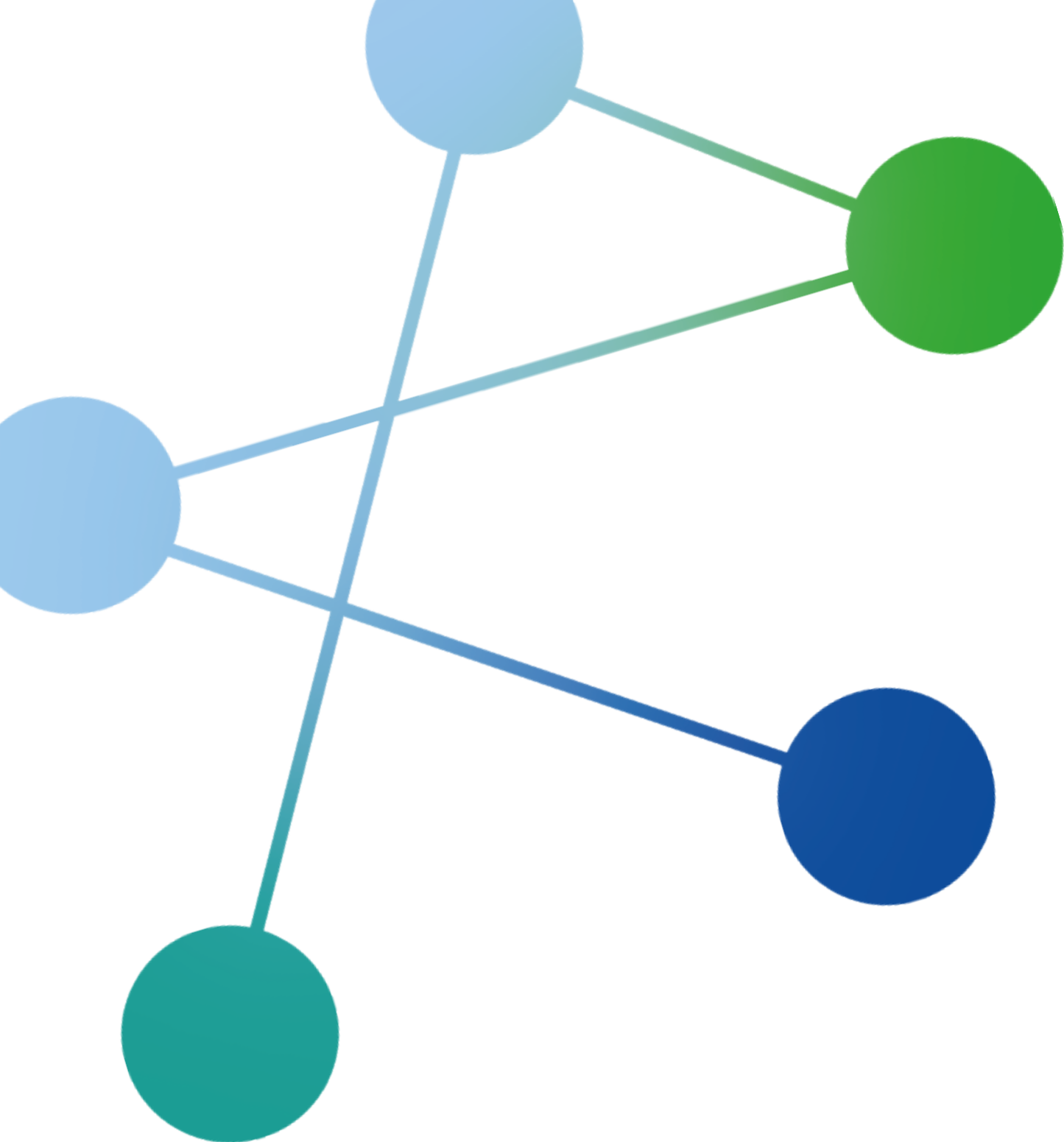
#### National information resources on COVID-19

Country	National authorities and public health agencies	Website	National helplines
Austria	Federal Ministry Republic of Austria: Social Affairs, Health, Care and Consumer Protection Federal Public Service: Health, Food Chain Safety and Environment	<a href="https://sozialministerium.at">sozialministerium.at</a> <a href="https://covid19-dashboards.at">COVID-19 Dashboard</a>	43,800,555,621
Belgium	Ministry of Health	<a href="https://info-coronavirus.be">info-coronavirus.be</a>	3,280,014,689
Bulgaria	Croatian Institute of Public Health	<a href="https://mzh.government.bg">mzh.government.bg</a>	+359 2 807 87 57
Cyprus	Ministry of Health	<a href="https://mhb.gov.cy">mhb.gov.cy</a>	+385 91 468 30 32; +385 99 468 30 01
Czech Republic	Danish Health Authority	<a href="https://koronavirus.mzcr.cz/">koronavirus.mzcr.cz/</a>	3 571,420
Denmark	Ministry of Social Affairs	<a href="https://sst.dk">sst.dk</a>	+420 724 810 106; +420 725 191 367
Estonia	Finnish institute for health and welfare	<a href="https://koroonavirus.ee">koroonavirus.ee</a>	+45 72 22 74 59
Finland	Government of the French Republic	<a href="https://thi.fi">thi.fi</a>	+372 634 6630; 1220*, 1247*
France	Guidelines for high-risk patients: <a href="https://www.gouvernement.fr">The official French guidelines to protect patients with cancer against SARS-CoV-2 infection (EN)</a>	<a href="https://gouvernement.fr">gouvernement.fr</a>	358,295,535,535
Hungary	Government of the French Republic		33,800,130,000
HSP	Guidelines for high-risk patients: <a href="https://www.gouvernement.fr">The official French guidelines to protect patients with cancer against SARS-CoV-2 infection (EN)</a>		
Germany	Federal Ministry of Health	<a href="https://bundesgesundheitsministerium.de">bundesgesundheitsministerium.de</a>	+49 30 346 465 100
Greece	National Public Health Institute of Greece	<a href="https://eodv.gov.gr/">eodv.gov.gr/</a>	302,105,212,054
Hungary	Hungarian Government	<a href="https://koronavirus.gov.hu">koronavirus.gov.hu</a>	+36 6 80 277 455; +36 6 80 277 456
Iceland	Directorate of Health	<a href="https://landlaeknir.is">landlaeknir.is</a>	+354 544 4113, 1700
Ireland	Health Service Executive	<a href="https://hse.ie">hse.ie</a> <a href="https://salute.gov.it">salute.gov.it</a>	+353 1850 24 1850*
Italy	Ministry of Health	Guidelines on oncology and hemato-oncology patients: <a href="https://www.governo.it">Raccomandazioni per la gestione dei pazienti oncologici e onco-ematologici in corso di emergenza da COVID-19 (IT)</a>	46 113 13
Latvia	Centre for the Prevention and Control of Diseases	<a href="https://spkc.gov.lv">spkc.gov.lv</a>	391,500
Liechtenstein	Government of Liechtenstein	<a href="https://regierung.li/coronavirus">regierung.li/coronavirus</a>	37,167,387,661
Lithuania	Ministry of Health	<a href="https://sam.lrv.lt">sam.lrv.lt</a>	+423 230 30 30
Luxembourg	Ministry of Health	<a href="https://msan.gouvernement.lu">msan.gouvernement.lu</a>	+370 8 618 79984
Malta	Government of Malta	<a href="https://deputyminister.gov.mt">deputyminister.gov.mt</a>	35,280,028,080
Netherlands	National Institute for Public Health and the Environment	<a href="https://rivm.nl">rivm.nl</a>	35,621,324,086
Norway	Norwegian Institute of Public Health	<a href="https://thi.no">thi.no</a> <a href="https://gov.pl">gov.pl</a>	+31 800-1351
Poland	Government of Poland	<a href="https://gov.pl">gov.pl</a>	+47 815 55 015
Portugal	Ministry of Health	<a href="https://dgs.pt/corona-virus">dgs.pt/corona-virus</a>	48,800,190,590
Romania	Ministry of Health	<a href="https://ms.ro">ms.ro</a>	+351 808 24 24 24
Slovakia	Public Health Authority of the Slovak Republic	<a href="https://uzdr.sk">uzdr.sk</a>	40,800,800,358
Slovenia	Government of Slovenia	<a href="https://ecvs.si">ecvs.si</a> <a href="https://mscbs.gob.es">mscbs.gob.es</a>	+21 917 222,682
Spain	Government of Spain	Guidelines for high-risk patients: <a href="https://www.gobierno.es">Action Guide For People With Chronic Health Conditions And Elderly People In Confinement - COVID-19 alarm status</a> <a href="https://www.gobierno.es">4 April 2020 (ES)</a>	+386 31 646 617; 080 1404*
Sweden	Public Health Agency of Sweden	<a href="mailto:fothalsomynsdi@hsten.se">fothalsomynsdi@hsten.se</a>	Regional numbers are found here
Switzerland	Federal Office of Public Health	<a href="https://bak.admin.ch/hovel-cov">bak.admin.ch/hovel-cov</a>	+41 58 463 00 00
UK	Government of UK	<a href="https://gov.uk">gov.uk</a>	111* (dialled from UK)





Using face masks in the community: first update - Effectiveness in reducing transmission of COVID-19	15/02/2021	evidence that has been accumulated since the emergence of COVID-19, in addition to what has existed on this topic prior to the pandemic, and updates the ECCO opinion on the suitability of this paper makes the case for immediate planning for a COVID-19 vaccination uptake. Having an advance of vaccine availability for two reasons. First, the need to build a consensus about the order in which groups of the population will get access to the vaccine; second, to reduce any fear and concerns that arise in relation to vaccination and to create demand for vaccines. A key part of this strategy is to counter the anti-vaccination movement that is already promoting hesitancy and resistance. Since the beginning of the COVID-19 pandemic there has been a spectrum of misinformation and conspiracy theories that have the potential to reduce vaccine uptake. To make matters worse, sections of populations in many countries display low trust in governments and officials.	mask, transmission	n	Guideline	ECCO		<a href="https://www.ecdc.europa.eu/en/publications-detail/face-masks-community-reducing-covid-19-transmission">https://www.ecdc.europa.eu/en/publications-detail/face-masks-community-reducing-covid-19-transmission</a>	Sweden	Europe	Open	15-Feb Access
Key Guidelines in Developing a Pre-Emptive COVID-19 Vaccination Uptake Promotion Strategy	13/06/2020	The purpose of this brief is to support decision makers who are planning and implementing vaccine communication strategies. The objective of this brief is to present implementation considerations based on evidence from systematic reviews.	Covid-19; behavior; change; communication; marketing; self French; social; marketing; William; Dehpande	atton; atton; social; vaccine; uptake	Guideline	Int J Environ Res Public Health	10.3390/ijerph17145893	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7459703/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7459703/</a>	UK	Europe	Open	13-Aug Access
Communicating with the public about vaccines: Implementation Considerations	30/06/2021	provide policy- and decision makers and operational staff with evidence to inform decisions on the use of digital interventions to promote vaccine uptake across all age groups. The objective is to summarize evidence from four systematic reviews on this topic, including how much certainty we have in	vaccine; vaccine; communication; communication	ation	Guideline	Cochrane		<a href="https://www.cochrane.org/updates/updates/2021/06/30/20210630-covid-19-vaccine-uptake">https://www.cochrane.org/updates/updates/2021/06/30/20210630-covid-19-vaccine-uptake</a>	UK	Europe	Open	30-Jun Access
Healthcare workers' perceptions and experiences of communicating with people over 50 years of age about vaccination: a qualitative evidence synthesis	21/07/2021	To explore healthcare workers' perceptions and experiences of communicating with older adults about vaccination.	vaccine; vaccine; over 50; over 50	VITAL	Guideline	Cochrane		<a href="https://www.cochrane.org/updates/updates/2021/07/21/20210721-covid-19-vaccine-uptake">https://www.cochrane.org/updates/updates/2021/07/21/20210721-covid-19-vaccine-uptake</a>	UK	Europe	Open	21-Jul Access
Effects of digital interventions for promoting vaccination uptake	30/06/2021	provide policy- and decision makers and operational staff with evidence to inform decisions on the use of digital interventions to promote vaccine uptake across all age groups. The objective is to summarize evidence from four systematic reviews on this topic, including how much certainty we have in	vaccine; vaccine; vaccination; vaccination	uptake; uptake	Guideline	Cochrane		<a href="https://www.cochrane.org/updates/updates/2021/06/30/20210630-covid-19-vaccine-uptake">https://www.cochrane.org/updates/updates/2021/06/30/20210630-covid-19-vaccine-uptake</a>	UK	Europe	Open	30-Jun Access
Interventions to support the resilience and mental health of frontline health and social care professionals during and after a disease outbreak, epidemic or pandemic: a mixed methods systematic review	05/11/2020	Objective 1: to assess the effects of interventions aimed at supporting the resilience and mental health of frontline health and social care professionals during and after a disease outbreak, epidemic or pandemic. Objective 2: to identify barriers and facilitators that may impact on the implementation of interventions aimed at supporting the resilience and mental health of frontline health and social care professionals during and after a disease outbreak, epidemic or pandemic.	frontline; mental health; frontline; mental health	Tomen; Margaret; Maxwell	Guideline	Cochrane	10.1002/14651985.cd013779	<a href="https://www.cochrane.org/updates/updates/2020/11/05/20201105-covid-19-vaccine-uptake">https://www.cochrane.org/updates/updates/2020/11/05/20201105-covid-19-vaccine-uptake</a>	UK	Europe	Open	05-Nov Access



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