

The competences for R&I and health are decentralised. Governance of the COVID-19 pandemic involved multiple authorities and a new pandemic law. The COVID-19 response is managed by the central government (through the Ministry of Foreign Affairs and Ministry of Social Affairs), along with other authorities including the Public Health Agency, which coordinates surveillance, communications and testing, and the National Board of Health and Welfare, which coordinates hospital beds and other resources. The Swedish Civil Contingencies Agency provides pandemic information to the public and supports other agencies, while the regions are tasked with scaling up health care capacity. During the COVID-19 pandemic, the Swedish Parliament approved a legislative amendment that temporarily gave the government increased powers to be able to quickly take measures to limit the spread of infection. This was followed by a temporary pandemic law passed in March 2021, which went beyond the Communicable Diseases Act and the Code of Conduct to extend the scope of measures at the government's disposal, including power to impose restrictions on businesses. From State of Health in the EU Sweden Country Health Profile 2021 https://health.ec.europa.eu/system/files/2021-12/2021_chp_sv_english.pdf

Sweden takes a comprehensive One Health approach to address AMR. The strategy for 2020-23 has the overarching goal of preserving the possibility of effective treatment of bacterial infections in humans and animals (Government Offices of Sweden, 2023). It comprises seven objectives, including enhancing monitoring and surveillance systems to track antibiotic consumption and resistance patterns; establishing robust infection prevention and control measures in healthcare settings; promoting a responsible use of antibiotics; and increased public awareness of antibiotic resistance. From State of Health in the EU Sweden Country Health Profile 2023 https://health.ec.europa.eu/system/files/2023-12/2023_chp_se_english.pdf, see also <https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/communicable-disease-control/antibiotics-and-antimicrobial-resistance/swedish-one-health-work-against-amr/>

Sweden has ten-years National research programs in viruses and pandemics and another on antibiotic resistance. The research programmes are part of the Government's long-term strategy and action plan to counteract and reduce virus outbreaks and pandemics and work against antimicrobial resistance.

Multiple initiatives have been established for disease surveillance in Sweden (wastewater surveillance, sentinel monitoring in healthcare, over 60 diseases are monitored following the Communicable Diseases Act) see <https://www.infectious-diseases-toolkit.org/national-resources/sweden> and <https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/communicable-disease-control/emergency-preparedness/>

R&I Policies and Strategies

The information is not exhaustive and should be updated regularly.

Country has a dedicated strategy for research and innovation related to pandemic threat? **Yes**

R&I strategy URL National research program in viruses and pandemics: <https://www.vr.se/english/analysis/reports/our-reports/2023-10-10-strategic-research-agenda-national-research-programme--in-viruses-and-pandemics.html>
National research program within antibiotic resistance <https://www.vr.se/english/mandates/funding-and-promoting-research/research-on-antibiotics-and-antibiotic-resistance/national-research-programme-within-antibiotic-resistance.html>
<https://www.scilifelab.se/capabilities/pandemic-laboratory-preparedness/>

Country has an open science portal with information on publicly financed scientific research? **Yes**

Swecris is a national database, where you can see how the participating research funding bodies have distributed their funds to researchers in Sweden. The database contains data from both governmental and private research funding bodies – 11 in total. Swecris is administered by the Swedish Research Council on behalf of the Government.
[Swecris - Vetenskapsrådet \(vr.se\)](https://www.vr.se/en/swecris)

Country has R&I webpage on COVID-19; Monkey pox; Other WHO viral risks; Antimicrobial resistance (AMR); Chemical, Biological, Radiological and Nuclear (CBRN) threats

Website open science/ open data initiative with respect to pandemic threats, such as COVID-19 open

Name	URL	Short Description
BY-COVID	https://by-covid.org/	The BeYond-COVID project aims to make COVID-19 data accessible to scientists in laboratories but also to anyone who can use it, such as medical staff in hospitals or government officials.
Chemical threats	https://www.msb.se/sv/amnesomraden/skydd-mot-olyckor-och-farliga-amnen/brottsforebyggande/kemiska-hot/	
Infectious diseases toolkit Sweden	https://www.infectious-diseases-toolkit.org/national-resources/sweden	
Info on Antimicrobial resistance (AMR)	https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/communicable-disease-	
Info on COVID-19	https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/communicable-disease-	
Info on Mpox	https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/communicable-disease-	
Radiological and Nuclear threats (Swedish Radiation Safety Authority)	https://www.stralsakerhetsmyndigheten.se/en/	
Statistics on communicable diseases	https://www.folkhalsomyndigheten.se/folkhalsorapportering-statistik/statistik-a-o/sjukdomsstatistik/	
Statistics on COVID-19	https://www.socialstyrelsen.se/en/statistics-and-data/statistics/statistics-on-covid-19/	
Swedish Civil Contingencies Agency (MSB)	https://www.msb.se/en/about-msb/research/	
Swedish Pathogens Portal	https://www.pathogens.se	
Swedish Research Council responses to COVID-19	https://www.vr.se/english/just-now/covid-19/swedish-research-council-responses-to-covid-19.html	Summary of what the Swedish Research Council is doing and has done to date to support research into the coronavirus and COVID-19
The European COVID-19 Data Platform	https://www.covid19dataportal.org/	The European COVID-19 Data Platform facilitates data sharing and analysis in order to accelerate coronavirus research
The Swedish COVID-19 & Pandemic Preparedness Data Portal	https://covid19dataportal.se/	

Country has coordinating structures to link public health needs and research needs? No

R&I Infrastructures

The information is not exhaustive and should be updated regularly.

Country has the following research infrastructure for infectious diseases and outbreaks available, or under construction

BSL 3; BSL 4; High level isolation units; Emergency intervention units; Clinical trial units; High level isolation transport; Open genome deposits for viruses; Open genome deposits for bacteria; Open genome deposits for AMR; Reference centres of excellence

Name Infrastructure	Type Infrastructure	URL	Max Capacity	Available for	Open to
Biobank Sverige		BiobankSverige.se			
BSL3 Biomedicum-SciLifeLab Collaborative Platform	BSL3	https://www.pathogens.se/resources/bsl3/			
Centre for Health Crisis		https://ki.se/en/collaboration/centre-for-health-crises			

Chemical Biology Consortium Sweden (CBCS)		http://www.cbcs.se/		
Clinical Studies Sweden	Clinical Trial Units	https://kliniskastudier.se/english/clinical-trial-units - h-Clinicaltrialunits https://www.kliniskastudier.se		
Data-driven Life Science Data Science Nodes (DDLs-DNS)		https://www.scilifelab.se/data-driven/ddls-research/ddls-epidemiology-and-biology-of-infection-ra/		
Data-driven Epidemiology and biology of infection				
EVA		https://www.european-virus-archive.com/		
Genomic Medicine Sweden (GMS)		https://genomicmedicine.se/		
High-containment laboratory at the Public Health Agency of Sweden	BSL4	https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/microbiology-and-		
Laboratory for Molecular Infection Medicine Sweden (MIMS)		https://www.umu.se/en/mims/		
MAX IV national lab providing scientists with the most brilliant X-rays for research @Lund Univ		https://www.maxiv.lu.se/news/life-science/		
National Bioinformatics Infrastructure Sweden (NBIS) PARI - Nordic		https://neic.no/pari/		
National Pandemic Centre (NPC) national COVID-19 diagnostic preparedness	research facility specialised in platforms for large-scale laboratory	https://ki.se/en/mtc/national-pandemic-centre-npc		
Pandemic Laboratory Preparedness Program	Life science infrastructure	https://www.scilifelab.se/capabilities/pandemic-laboratory-preparedness/	Academia	Yes
Public Health Agency Microbiology and Diagnostics	Diagnostic	https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/microbiology-and-		
Public Health Agency's preparedness platform		https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/communicable-		

Country supporting the participation to the following ESFRI initiatives relevant for infectious diseases
BBMRI; EATRIS; ERINHA

Website network of clinical trials (e.g. to facilitate the access to clinical trials) the country is involved in
<https://www.edctp.org/>
<https://vaccelerate.eu/>
<https://www.combacte.com/>

Budget mobilisation mechanisms and funding sources *The information is not exhaustive and should be updated regularly.*

Basic Research

url vr.se
[Forte - Forskningsrådet för hälsa, arbetsliv och välfärd](#)
www.formas.se

funding for basic research accessible for industry? No

source of funding Public (research) agencies

Applied Research

url vinnova.se
[Swedish research creating sustainable growth | RISE](#)
www.formas.se

funding for applied research accessible for industry? Yes

source of funding Public (research) agencies

Translational Research

url www.formas.se
[Forte - Forskningsrådet för hälsa, arbetsliv och välfärd](#)

funding accessible for industry? No

source of funding

Clinical Research (in general)

url vr.se
[Forte - Forskningsrådet för hälsa, arbetsliv och välfärd](#)

funding accessible for industry? No

source of funding Public (research) agencies

phase funded? Phase 1

Clinical Research (in pandemic phase)

url

accessible for industry?

source of funding

phase funded ?

Innovation Projects

url vinnova.se

funding for innovation projects accessible for industry? Yes

source of funding Public (research) agencies

Flexible funding is provided in case of emergency.

R&I actors, authorities and activated processes that are activated in case of a health threat

The information is not exhaustive and should be updated regularly.

R&I actors, authorities and

ministries involved in case of an outbreak; mobilisation processes of research forces; (existing) national or regional structures that advise governments on R&I during emergencies; assessment of research outputs produced during a crisis; mechanisms to identify promising therapies or medical products for pandemic preparedness that are in the pipeline; international scientific collaboration in case of an outbreak

Name	Description	url
Central Hospital Växjö	Central Hospital Växjö is WHO Collaborating Centre for Standardization of Antimicrobial Susceptibility Testing of Bacteria	http://mikrobiologi.org/
Formas	Formas, a government research council for sustainable development – allocates funding for research in environment matters, agricultural sciences and spatial planning.	https://formas.se/en/start-page.html
Karolinska Institutet	Karolinska Institutet and Karolinska University Hospital play an important role in medical academic research	https://ki.se
Knut and Alice Wallenberg Foundation	Private funder that funds long-term basic research mainly in medicine, technology and natural sciences	https://kaw.wallenberg.org/en
National Board of Health and Welfare (NBHW)	NBHW has the responsibility for development and maintenance of expertise and to disseminate knowledge about disaster medicine and emergency preparedness in order to provide the Swedish health system and social services with assistance in times of emergency and disaster management. NBHW provides statistical database intended primarily for researchers and statisticians.	https://www.socialstyrelsen.se/en
Public Health Agency of Sweden (Folkhälsomyndigheten)	The Public Health Agency of Sweden has the overall national responsibility for protecting the population against communicable diseases. The Agency must also coordinate infection control and preparedness against cross-border health threats. The Agency is WHO Collaborating Centre for antimicrobial resistance containment	https://www.folkhalsomyndigheten.se/the-public-health-agency-of-sweden/communicable-disease-control/emergency-preparedness/
Research Institute of Sweden (RISE)	The research institute of Sweden (RISE) is Sweden's research institute and innovation partner. Through international collaboration with industry, academia and the public sector, The research institute of Sweden (RISE) ensures business competitiveness and contributes to a sustainable society.	https://www.ri.se/en
SciLifeLab Pandemic Preparedness Program	The SciLifeLab Infrastructure will switch to pandemic mode during outbreaks	https://www.scilifelab.se/capabilities/pandemic-laboratory-preparedness/

Swedish Agency for Health Technology Assessment and Assessment of Social Services (SBU)	SBU is responsible for HTA	https://www.sbu.se/en/
Swedish Association of Local Authorities and Regions (SKR)	SKR composed of all of Sweden's municipalities, county councils and regions is involved in case of emergencies	https://skr.se/
Swedish Civil Contingencies Agency (MSB)	MSB is involved in case of emergencies	https://www.msb.se/en/
Swedish Foundation for Strategic Research (SSF, Stiftelsen för strategisk forskning)	The Swedish Foundation for Strategic Research (SSF, Stiftelsen för strategisk forskning) funds research in science, engineering and medicine	https://strategiska.se/en/
Swedish Research Council	The Swedish Research Council is a research policy adviser to the government. We analyze and follow up the research system and the research conditions and give advice on future research policy.	https://www.vr.se/
Swedish Research Council for Health, Working Life and Welfare (Forte)	Forte funds research within three main fields: health, working life and welfare. Forte funds research regarding both public and individual health. Research within this field includes studies on diseases and what affects the risk of being infected. It also includes efforts to promote good health and prevent ill health, rehabilitation and nursing, health care processes and systems. Research within this field also includes health care research.	https://forte.se/en/
Uppsala University Hospital		https://www.akademiska.se/en/
Vinnova	Vinnova is Sweden's innovation agency. Our mission is to strengthen Sweden's innovative capacity and contribute to sustainable growth. We work to ensure that Sweden is an innovative force in a sustainable world	https://www.vinnova.se/en/

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