



Respiratory Viruses Surveillance Country, Territory and Area Profiles, 2021

Address requests about publications of the WHO Regional Office for Europe to:

Publications

WHO Regional Office for Europe

Marmorvej 51

DK - 2100 Copenhagen Ø, Denmark

Alternatively, complete an online request form for documentation, health information, or for permission to quote or translate, on the Regional Office website (<http://www.euro.who.int/pubrequest>).

WHO/EURO:2022-4760-44523-63025

© **World Health Organization and the European Centre for Disease Prevention and Control 2022**

Some rights reserved. This work is available under the Creative Commons Attribution- 3.0 IGO licence (CC BY-3.0 IGO; Creative Commons — Attribution 3.0 IGO — CC BY 3.0 IGO).

Under the terms of this licence, you may copy, redistribute and adapt the work, even commercially, provided the work is appropriately cited, as indicated below. In any use of this work, there should be no suggestion that WHO or ECDC endorse any specific organization, products or services. The use of the WHO or ECDC logo is not permitted. If you adapt the work, then you must license your work under the same or equivalent Creative Commons licence. If you create a translation of this work, you should add the following disclaimer along with the suggested citation: "This translation was not created by the World Health Organization (WHO) or the European Centre for Disease Prevention and Control (ECDC). WHO and ECDC are not responsible for the content or accuracy of this translation. The original English edition shall be the binding and authentic edition: Respiratory viruses surveillance country, territory and area profiles, 2021. Copenhagen: WHO Regional Office for Europe and Stockholm: European Centre for Disease Prevention and Control; 2022".

Suggested citation. Respiratory viruses surveillance country, territory and area profiles, 2021. Copenhagen: WHO Regional Office for Europe and Stockholm: European Centre for Disease Prevention and Control; 2022. Licence: CC BY 3.0 IGO.

Cataloguing-in-Publication (CIP) data. CIP data are available at <http://apps.who.int/iris>.

Sales, rights and licensing. To purchase WHO publications, see <http://apps.who.int/bookorders>. To submit requests for commercial use and queries on rights and licensing, see <http://www.who.int/about/licensing>.

Third-party materials. If you wish to reuse material from this work that is attributed to a third party, such as tables, figures or images, it is your responsibility to determine whether permission is needed for that reuse and to obtain permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization and ECDC concerning the legal status of any country, territory, area or city or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization and ECDC in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by the World Health Organization and ECDC to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization and ECDC be liable for damages arising from its use.

This publication follows WHO institutional style guidelines which reflects the WHO Style Guide with regard to names and designation of countries, territories, areas or cities, or of their authorities. The names and designations of countries, territories, areas and cities used in this publication should not be understood as an endorsement by ECDC of the terminology used.

Contents

Data	iii
Abbreviations.....	iii
Notes.....	iv
Albania.....	1
Andorra.....	4
Armenia	6
Austria	9
Azerbaijan	11
Belarus.....	14
Belgium.....	18
Bulgaria	22
Croatia.....	26
Cyprus	31
Czechia	34
Denmark	37
Estonia.....	39
Finland.....	42
France	45
Georgia.....	48
Germany	52
Greece.....	55
Hungary.....	57
Iceland.....	59
Ireland.....	61
Israel	63
Italy.....	66
Kazakhstan.....	69
Kyrgyzstan	74
Latvia.....	79
Lithuania	82
Luxembourg	84

Malta	87
Montenegro.....	89
Netherlands.....	91
North Macedonia.....	95
Norway	99
Poland	105
Portugal	107
Republic of Moldova	110
Romania.....	114
Russian Federation.....	117
Serbia	120
Slovakia	122
Slovenia	124
Spain	127
Sweden.....	129
Switzerland.....	132
Tajikistan	135
Turkey	139
Turkmenistan	142
Ukraine	147
Uzbekistan	152
United Kingdom of Great Britain and Northern Ireland.....	155
England	155
Northern Ireland.....	159
Scotland	163
Wales	166
Kosovo ¹	169

¹ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999)

Data

The data in these profiles were submitted by the country, territory or area during the period July 2021 to December 2021. The data here are presented unedited.

Abbreviations

ARI	Acute Respiratory Infection
COVID-19	Coronavirus Disease 2019
ECDC	European Centre for Disease Prevention and Control
GP	General practitioner/general practice
HDU	High dependency unit
HMO	Health maintenance organization (Israel)
ICD	International classification of diseases
ICPC	International Classification of Primary Care
ICU	Intensive care unit
ILI	Influenza-like illness
MEM	Moving epidemic method
NHS	National Health Service (United Kingdom)
NIC	National Influenza Centre
PAHO	Pan American Health Organization
PCR	Polymerase chain reaction
PHE	Public Health England
RSV	Respiratory syncytial virus
SARI	Severe acute respiratory infection
WHO	World Health Organization

Notes

- These profiles include only details of national surveillance systems which provide data to The European Surveillance System (TESSy) and are used in the drafting of the joint European Centre for Disease Prevention and Control (ECDC)–WHO Regional Office for Europe influenza bulletin, Flu News Europe (Flue News Europe [website]. In: Joint ECDC-WHO/Europe weekly influenza update. WHO/ECDC; 2014-2022 (<https://flunewseurope.org/> , accessed 16 February 2022)).
- Mid-year population estimates are based on 2020 data, according to the WHO Regional Office for Europe’s European Health for All database (European Health Information Gateway. Health for All explorer [on-line database]. Copenhagen: WHO Regional Office for Europe; 2022 (<https://gateway.euro.who.int/en/hfa-explorer/> , accessed 16 February 2022)).
- Income group is based on the June 2020 World Bank list of economies (World Bank Country and Lending Groups [website]. In: The World Bank, Data, country classification; 2022 (<http://data.worldbank.org/about/country-and-lending-groups>, accessed 16 February 2022)).
- The type of surveillance can be defined as: a) sentinel; b) universal; or b) non-sentinel (WHO Regional Office for Europe guidance for sentinel influenza surveillance in humans. Copenhagen: WHO Regional Office for Europe; 2011 (<https://apps.who.int/iris/handle/10665/107265>, accessed 16 February 2022)).
 - A **sentinel** surveillance system is formed by one or more designated primary healthcare facilities or providers that routinely and consistently collect epidemiological information from patients presenting with an illness consistent with a specified case definition. Representative clinical specimens are collected from all or a subset of patients according to a randomized/systematic/convenience sampling protocol. Sentinel surveillance systems provide an efficient way to obtain high-quality data on relatively common conditions from a manageable number of locations. Each sentinel site should include facilities that together represent the population under surveillance.
 - A **universal** surveillance system is formed by all designated health care facilities or providers in a country, territory or area. This generally includes reporting of all clinician-defined “ARI” and is part of the national disease surveillance systems of several Member States in the WHO European Region. These universal systems provide subnational resolution of clinician-reported respiratory disease activity.
 - A **non-sentinel** surveillance system includes other types of surveillance system (e.g. laboratory surveillance), which do not meet the definition of the other two types of system. Non-sentinel surveillance generally refers to viruses reported from/detected in patients from non-sentinel surveillance systems. In the WHO European Region, this includes viruses from clinical diagnostic laboratories, outbreaks, or universal ARI surveillance systems that do not have randomized/ standardized sampling strategies.
- The most common **case definitions** can be found in the table below:

ILI	ECDC	Sudden onset of symptoms <i>and</i> at least one of the following four systemic symptoms: fever or feverishness, malaise, headache, myalgia <i>and</i> at least one of the following three respiratory symptoms: cough, sore throat or shortness of breath.
	WHO <2011	Sudden onset of fever >38 C° AND cough OR sore throat in the absence of other diagnosis.
	WHO 2011	An acute respiratory illness with onset during the last 7 days with, measured temperature ≥ 38°C, AND cough.
	WHO 2014	An acute respiratory infection with: measured fever of ≥ 38 C° and cough; with onset within the last 10 days.
ARI	ECDC, WHO	Sudden/acute onset of at least one of the following four respiratory symptoms: cough, sore throat, shortness of breath, coryza; and a clinician’s judgement that the illness is due to an infection.
SARI	WHO <2011	Onset of the following symptoms ≤7 days prior to hospital admission: Fever >38°C AND cough OR sore throat AND shortness of breath or difficulty in breathing. <i>For children aged <5 years the IMCI case definition for pneumonia and severe pneumonia is applied.*</i>
	WHO 2011	An acute respiratory illness with onset during the previous 7 days requiring overnight hospitalization that includes: history of fever or measured fever of ≥ 38°C, AND cough, AND shortness of breath or difficulty breathing.
	WHO 2014	An acute respiratory infection with: history of fever or measured fever of ≥ 38 C°; and cough; with onset within the last 10 days; and requires hospitalization.

**Pneumonia: cough OR difficulty in breathing AND breathing faster than 40 breaths/minute (12 – 59 months); breathing faster than 50 breaths/minute (2 – 11 months); Severe pneumonia: cough OR difficulty in breathing AND any of the following general severe signs: unable to drink or breastfeed OR vomits everything OR convulsions OR lethargy or unconsciousness OR chest in drawing or stridor in a calm child.*

Sampling strategies

1. Systematic sampling: samples are collected in a systematic way. This includes:
 - a. Interval sampling – e.g. every 5th patient who meets the case definition is selected for testing and data collection.
 - b. Alternate day sampling – e.g. select all patients who meet the case definition presenting to a facility on a certain day or days of the week.
2. Convenience sampling: this is also called ad hoc sampling and does not adhere to a pre-determined system – e.g. 5 samples per week or the first 2 cases that meet the case definition are sampled.
3. All cases: samples are collected from all cases that meet the case definition.

Hospital*				Other**
Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
Sentinel	Universal	Sentinel	Universal	

* Hospital-based surveillance can be carried out by "Severe acute respiratory infection" (SARI) surveillance or by "laboratory-confirmed influenza" surveillance. Both system types include patients that have been admitted to the hospital. In SARI surveillance, the number of SARI cases is reported and all or a subset are tested for influenza. In laboratory-confirmed surveillance, the cases that have been tested positive for influenza are reported.

** Other: this column includes other surveillance systems that do not fall under primary care and/or hospital-based surveillance.

Respiratory viruses surveillance profiles

Albania

Total population:

2,862,427

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological			Clinical	Integrated clinical and virological			Integrated clinical and virological	
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2				Influenza, RSV & SARS-CoV-2			Influenza	
Reporting period	year round			Year-round	Year-round			year-round	
Population covered (%)	20.0%			100.0%	62.0%			100.0%	
Type of health facilities/hospitals	General practice, pediatric practice, polyclinic			General practice, pediatric practices, polyclinic, emergency department in hospitals	7 regional hospitals, 2 university hospital centres (pediatric service infectious diseases service, intensive care service and lung disease hospital)			Regional and district hospitals, non sentinel hospitals and non sentinel primary care such as general and specialty practice, polyclinic, pediatric care etc	

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/ hospitals	6 facilities				9 hospitals			28 hospitals and 100 primary care facilities	
Number of primary care practitioners									
Case definition used	WHO 2014			ECDC, WHO	WHO 2014			WHO 2014	
Description of national case definition									
Year introduced	2009			1999	2009				2009
Epidemic threshold	Yes			Yes	Yes				
Sampling strategy methodology	Systematic sampling.			All cases	All cases			Convenience sampling	

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	Sampling is performed in 4 polyclinics in Tirana and 1 in Durrës and 1 in Fier. The first 5 patients (on Tuesdays and Thursdays) are sampled at each polyclinic. Sampling of both pediatric and adult patients occurs			Sampling occurs when there is an increase in cases in different districts or age groups and in outbreaks	All SARI cases are sampled at all times (24hrs/7 days a week)			Sampling occurs when there is an increase in cases in different districts or age groups and in outbreaks	

Publicly available national bulletins	Influenza	COVID-19	RSV
	www.ishp.gov.al	www.ishp.gov.al , https://shendetesia.gov.al	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definition

Respiratory viruses surveillance profiles

Andorra

Total population:

81,011

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system		Clinical	Integrated clinical and virological		Integrated clinical and virological				
Respiratory pathogens tested for			Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2				
Reporting period		W40 (actual year) to Week 20 (next year)	W40 (actual year) to Week 20 (next year)		W40 (actual year) to Week 20 (next year)				
Population covered (%)		100.00%	100.00%		100.00%				
Type of health facilities/hospitals		Emergencies department and general practice	Emergencies department		secondary level				
Number of health facilities/hospitals			1		1				
Number of primary care practitioners		83							

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used		WHO 2014			WHO 2014				
Description of national case definition									
Year introduced		2000	2005		2009				
Epidemic threshold		Yes	Yes		Yes				
Sampling strategy methodology			Convenience sampling		Convenience sampling				
Sampling strategy			all cases diagnosed in the emergencies department of the hospital on Mondays are included - all age group are included in the sampling		all hospitalized cases are analyzed - all age group are included in the sampling				

Publicly available national bulletins	Influenza	COVID-19	RSV
	No	No	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Armenia

Total population:

2,962,482

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological			Integrated clinical and virological	Integrated clinical and virological				Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2			Influenza and RSV	Influenza, RSV & SARS-CoV-2				Influenza, RSV & SARS-CoV-2
Reporting period	Year-round			Year-round	Year-round				Year-round
Population covered (%)	N/A			100%	N/A				N/A
Type of health facilities/hospitals	Polyclinic			General practice, polyclinic	ICU, general ward, pediatrics ward, maternal healthcare institute				General practice, polyclinic
Number of health facilities/hospitals	5 facilities			All facilities	8 hospitals				All healthcare facilities

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	WHO 2014			ECDC, WHO	WHO 2014				Laboratory-confirmed influenza
Description of national case definition	WHO, 2014, including a history of fever within the last 10 days								
Year introduced	2010			1990	2010				2009
Epidemic threshold	No			Yes	No				No
Sampling strategy methodology	Systematic sampling			Convenience sampling	Systematic sampling				Convenience sampling

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	A different systematic sampling methodology is applied in each facility. The selection is random, so all age groups are represented			A small number of samples are taken and tested for influenza from ARI patients (2 per week)	A different systematic sampling methodology is applied in each facility. The selection is random, so all age groups are represented				

Publicly available national bulletins	Influenza	COVID-19	RSV
	No	Everyday data on registered cases is published on the website of the Ministry of Health and the National Centre for Disease Control and Prevention of the Ministry of Health of the Republic of Armenia (www.moh.am , www.ncdc.am)	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Austria

Total population:

8,877,637

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological								Virological
Respiratory pathogens tested for									
Reporting period	Week 40-20								Week 40-20
Population covered (%)	1.5%								Not available
Type of health facilities/hospitals	General practice, pediatric practice								Pediatricians, pediatric clinic, infectious disease hospital outpatient department and infectious disease hospital department
Number of health facilities/hospitals	180 facilities								Not available
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	ECDC								ECDC
Description of national case definition									
Year introduced	2000/2001								1952
Epidemic threshold	Yes								No
Sampling strategy methodology	Convenience sampling								
Sampling strategy	Each sentinel site collects 3-5 specimens per week								No sampling strategy. Physicians take nasopharyngeal swabs for diagnostic purposes

Publicly available national bulletins	Influenza	COVID-19	RSV
	www.influenza.at	https://covid19-dashboard.ages.at	https://www.virologie.meduniwien.ac.at/wissenschaft-forschung/virus-epidemiologie/rsv-netzwerk-oersn/

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Azerbaijan

Total population:

9,854,050

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological			Clinical	Integrated clinical and virological		Integrated clinical and virological		
Respiratory pathogens tested for									
Reporting period	Year-round				Year-round				
Population covered (%)	20.0%				2.9%		23.0%		
Type of health facilities/hospitals	Pediatric practice, polyclinic				Infectious disease department in the hospital, pulmonology department of the hospital				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/hospitals	16 facilities				2 hospitals		18 facilities		
Number of primary care practitioners									
Case definition used	WHO <2011				WHO <2011				
Description of national case definition									
Year introduced	2009				2009				
Epidemic threshold	Yes				No				
Sampling strategy methodology	Systematic sampling				Systematic sampling				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	A sample is taken from every 3rd patient. All age groups are included				A sample is taken from every 3rd patient. All age groups are included				

Publicly available national bulletins	Influenza	COVID-19	RSV
	No	-	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Belarus

Total population:

9,465,675

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological		Integrated clinical and virological				Virological
Respiratory pathogens tested for	Influenza & SARS-CoV-2		Influenza & SARS-CoV-2		Influenza & SARS-CoV-2				SARS-CoV-2 only
Reporting period	Year-round		Year-round		Year-round				Year-round
Population covered (%)	17.9%		61.5%		20.6%				100.0%

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Type of health facilities/hospitals	Pediatric practice (polyclinic), polyclinic (adults)		General practice, pediatric practice, polyclinic (adult), emergency ward, infectious disease ward, pulmonology ward		ICU, general, pediatrics, obstetrics, emergency, infectious disease, pulmonology hospitals/wards				ICU, general, pediatrics, obstetrics, infectious disease, pulmonology hospitals/wards
Number of health facilities/hospitals	29 facilities		198 facilities		35 facilities				All facilities
Number of primary care practitioners									
Case definition used	WHO 2011		ECDC, WHO		WHO 2011				WHO 2011
Description of national case definition									
Year introduced	2010		2010		2010				2010

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Epidemic threshold	Yes		Yes		No				No
Sampling strategy methodology	Convenience sampling		Convenience sampling		Convenience sampling				
Sampling strategy	During the epidemic and interepidemic period, 30 samples are collected per week (in total from sites that are included in the sentinel surveillance system in each region, from adults and children)		During the epidemic and interepidemic period, 30 samples are collected per week (in total from sites that are included in the sentinel surveillance system in each region, from adults and children)		During the epidemic and interepidemic period, 30 samples are collected per week (in total from sites that are included in the sentinel surveillance system in each region, from adults and children)				At the physician's discretion

Publicly available national bulletins	Influenza	COVID-19	RSV
	No	The information is published in the official Telegram channel of the Ministry of Health (daily) and on the website of the Ministry of Health (periodically).	No

Respiratory viruses surveillance profiles

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Belgium

Total population:

11,502,704

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Clinical		Integrated clinical and virological				Integrated clinical and virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2				Influenza, RSV & SARS-CoV-2				Influenza, RSV & SARS-CoV-2

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Reporting period	Clinical: year-round; Virological: week 40-20		Year-round		Most hospitals will start to report as soon as the ILI incidence of GP visits is increasing. Up till 2020, the surveillance ended at least 3 weeks after the (GP consultations for) ILI incidence dropped below the MEM epidemic threshold. Most years since 2012 the SARI surveillance ran from week 52 until week 16.				Year-round
Population covered (%)	1.3%		1.3%		The population covered is estimated at 9% of the Belgian population				Not available
Type of health facilities/hospitals	General practice		General practice		General hospitals (all wards)				General hospitals (all wards)
Number of health facilities/hospitals	83 facilities		83 facilities		6 hospitals				103 hospitals

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	National		National		National				
Description of national case definition	Sudden onset of fever with respiratory symptoms and general symptoms		Acute respiratory infection of the upper, medium or lower respiratory tract (including common cold, rhinitis, (rhino)pharyngitis, angina, sinusitis, otitis, laryngitis, (larynges)-tracheitis, bronchitis, bronchiolitis and (bronco)pneumonia) without influenza syndrome		Adapted from the SARI WHO 2014 case definition: an acute respiratory illness with onset within the last 10 days of history of fever, or measured fever of $\geq 38^{\circ}\text{C}$, and cough or dyspnea (shortness of breath or difficulty to breath) and requiring hospitalization (24h or more)				Samples from patients presenting with severe influenza in particular specific conditions: ARDS (acute respiratory distress syndrome), ECMO (extracorporeal membrane oxygenation), death, suspicion of antiviral resistance, returning from abroad or in case of outbreaks
Year introduced	1985		1985		2011-2012				2011-2012
Epidemic threshold	Yes		No		No				No
Sampling strategy methodology	Convenience sampling				All cases				Convenience sampling

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	The first 2 ILI cases in a week seen by the GP		No samples collected		All hospitalized patients meeting the case definition are sampled				Only cases from patients with severe suspected influenza

Publicly available national bulletins	Influenza	COVID-19	RSV
	Weekly bulletin respiratory infections https://epidemiology.wiv-isp.be/ID/diseases/SiteAssets/Pages/Influenza/WeeklyBulletinRespiratoryInfections.pdf Epidemiology of infectious diseases https://epidemiology.wiv-isp.be/ID/diseases/Pages/Influenza.aspx	There are daily bulletins and each Friday also a more comprehensive weekly report. The most recent bulletin can always be found on: https://covid-19.sciensano.be/sites/default/files/Covid19/Derniere%20mise%20a%20jour%20de%20la%20situation%20%C3%A9pid%C3%A9miologique.pdf	RSV is one of the pathogens of which the epidemiological situation is weekly updated in the Weekly respiratory infections bulletin: https://epidemiology.wiv-isp.be/ID/diseases/SiteAssets/Pages/Influenza/WeeklyBulletinRespiratoryInfections.pdf (currently on p.7 and p.23)

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Bulgaria

Total population:

6,975,761

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system			Integrated clinical and virological						Virological
Respiratory pathogens tested for			Influenza & SARS-CoV-2						Influenza, RSV & SARS-CoV-2
Reporting period			Year-round						Year-round
Population covered (%)			5.4%						
Type of health facilities/hospitals			General practices						General practices, polyclinics, intensive care/critical care units, infectious disease hospital and wards, pediatric hospital and wards, pulmonary wards, and general hospitals

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/ hospitals			218 facilities						40 hospitals
Number of primary care practitioners									
Case definition used			ECDC, WHO						ECDC - ILI and ARI case definitions
Description of national case definition									
Year introduced			2001						1958
Epidemic threshold			Yes						No
Sampling strategy methodology			Convenience sampling						

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy			10-20 cases from each of the 28 regions of the country that meet the case definition are sampled. All age groups are included in the sampling. Information available: age, sex, geographical information, diagnosis, data of sampling. The sampling procedure does not differ between the start and the peak of the season. All cases are included in the sampling strategy.						According to the decision of the doctors. All age groups are included in the sampling. Information available: age, sex, geographical information, diagnosis, data of sampling. The sampling procedure does not differ between the start and the peak of the season. All cases are included in the sampling strategy.

Publicly available national bulletins	Influenza	COVID-19	RSV
	Информационна система	-	-

Respiratory viruses surveillance profiles

	за събиране и анализиране на данни за заболяемостта от грип и ОРЗ в България [in Bulgarian] https://grippe.gateway.bg/page.php?category=4		
--	--	--	--

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Croatia

Total population:

4,065,253

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system		Clinical							
Respiratory pathogens tested for									
Reporting period		Week 40/current year - week 20/next year							
Population covered (%)		100.0%							
Type of health facilities/hospitals		General practice and pediatrics practice within the primary care							

Respiratory viruses surveillance profiles

Number of health facilities/ hospitals		<p>Data from around 2570 primary healthcare facilities are collected by 21 county epidemiological units and sent by email to the Croatian Institute of Public Health. However, according to our survey conducted two years ago, there is substantial difference in reporting rate among the primary healthcare sites that are supposed to report weekly ILI data. Currently we are exploring possibilities to get ILI data based on the ICD-10 codes directly from the IS from the Healthcare Insurance Fund. If this will be feasible, we plan to analyze data from the last 3-5 flu seasons to estimate the baseline (and compare with the data obtained directly from the physicians during the respective time). We think that this kind of data collection would</p>							
---	--	---	--	--	--	--	--	--	--

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
		be more accurate in reflecting actual epi situation. Moreover, we could have all-year around ILI surveillance on weakly basis.							
Number of primary care practitioners									
Case definition used		ECDC							
Description of national case definition									
Year introduced		1975							
Epidemic threshold		Yes							
Sampling strategy methodology		Convenience sampling							

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy		We do not have sampling strategy for ILI cases in place. Certain number of ILI cases get tested based on the decision of the primary care physicians. We have developed protocol to establish sentinel ILI surveillance in several primary care offices in parallel with already existing universal ILI reporting, so we could get estimate the proportion of reported ILI cases due to confirmed influenza virus, but this proposal was not recognized as the priority in budgeting.							

Publicly available national bulletins	Influenza	COVID-19	RSV
	Weekly ILI report: https://www.hzjz.hr/?s=gripa NIC report: http://gripa.hr/content/szo/tjedno_izvjesce.aspx	-	-

Respiratory viruses surveillance profiles

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Cyprus

Total population:

880,582

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Clinical					Integrated clinical and virological	Virological
Respiratory pathogens tested for									
Reporting period	Week 40-20		Week 40-20					Week 40-20	Week 40-20
Population covered (%)								90.0%	>80%
Type of health facilities/hospitals	Pediatric outpatient department in public hospitals; adult outpatient department in public hospitals; offices of primary health care pediatrician and adult-care physicians practicing in the private sector		Pediatric outpatient department in public hospitals; adult outpatient department in public hospitals; offices of primary health care pediatrician and adult-care physicians practicing in the private sector					Nearly all hospitals in the private and public sectors	Public hospitals and Public Health Centers

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/ hospitals	Clinical: 55 facilities; Virological: 18 public health physicians collect specimens for influenza diagnosis		55 facilities					9 hospitals	
Number of primary care practitioners									
Case definition used	National		National						
Description of national case definition	Sudden appearance of fever >39°C for at least 2 days AND respiratory symptoms, malaise, myalgia, headache							Severe acute respiratory illness requiring hospitalization including ICU admissions with confirmed virological specimen for influenza	
Year introduced	2003		2003					2013	
Epidemic threshold	No		No					No	
Sampling strategy methodology	Convenience sampling								

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	5-7 specimens are collected from each site per week								

Publicly available national bulletins	Influenza	COVID-19	RSV
	No	https://www.pio.gov.cy/coronavirus/eng/categories/information-guidelines (The National reports are under the epidemiological surveillance tab) https://www.pio.gov.cy/coronavirus/categories/press#30 (Daily reports are under the 3rd tab - only in Greek)	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Czechia

Total population:

10,669,324

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological			Integrated clinical and virological			Virological
Respiratory pathogens tested for									
Reporting period	Clinical: year-round; Virological: week 40-20		Clinical: year-round; Virological: week 40-20			Year-round			
Population covered (%)	~50%		~50%			~100%			
Type of health facilities/hospitals	General practice, pediatric practice		General practice, pediatric practice			All ICUs			
Number of health facilities/hospitals	3470 facilities		3470 facilities						
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	ECDC.		ECDC, WHO			WHO 2014.			ECDC
Description of national case definition						WHO 2014 (with modification for necessity of hospitalization at ICU)			
Year introduced	2004		1956			2010			1956
Epidemic threshold	Yes		Yes			No			No
Sampling strategy methodology	Convenience sampling		Convenience sampling			All cases			
Sampling strategy	One sample from general practice and one sample from pediatric practice per week from all regions are collected during the influenza season (week 40-20)		One sample from general practice and one sample from pediatric practice per week from all regions are collected during the influenza season (week 40-20)						Upon request from the non-sentinel site

Publicly available national bulletins	Influenza	COVID-19	RSV
	Zpráva o chřipkové aktivitě, hlášení a výsledky laboratorních vyšetření [in Czech language only] http://www.szu.cz/tema/prevence/hlaseni-a-vysledky	in Czech language only at https://onemocneni-aktualne.mzcr.cz/covid-19 http://www.szu.cz/tema/prevence/celogenomova-sekvenace-v-cr-2021-souhrnna-zprava	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Respiratory viruses surveillance profiles

Denmark

Total population:

5,825,337

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological					Integrated clinical and virological			Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2								
Reporting period	Week 40-20. From 2021-22 this will change to year-round								Year-round
Population covered (%)	~3%								100.0%
Type of health facilities/hospitals	General practice								All
Number of health facilities/hospitals	100 facilities. Will be increased to ~150 in 2021-22								All national hospitals, out-patients clinics and GPs
Number of primary care practitioners									
Case definition used	ECDC								

Respiratory viruses surveillance profiles

Description of national case definition									
Year introduced	1994								2010
Epidemic threshold	Yes								No
Sampling strategy methodology	Systematic sampling								All cases
Sampling strategy	GPs are asked to swab 2 patients with ILI each week. All age groups and patient groups.								There are national guidelines for when to swab patients in and outside hospitals during and outside the influenza season.

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.ssi.dk/Aktuelt/Nyhedsbreve/INFLUENZ A-NYT.aspx	https://covid19.ssi.dk/	https://www.ssi.dk/sygdomme-beredskab-og-forskning/sygdomsovervaagning/r/rs-virusovervaagning

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Estonia

Total population:

1,326,898

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological			Clinical				Clinical	Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2								
Reporting period	Year-round			Year-round				Year-round	
Population covered (%)	13.1%			100.0%			Not available	Not available	Not available
Type of health facilities/hospitals	General practice, polyclinic, family doctor			General practice, pediatric practice, polyclinic, family doctor				1. Laboratory confirmed influenza hospitalisation from all hospitals reported through e-register 2. Case-based data from region and central hospitals about laboratory confirmed influenza cases	

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/ hospitals	19 facilities			431 facilities				11 hospitals	
Number of primary care practitioners									
Case definition used	ECDC			ECDC, WHO			Not available		Not available
Description of national case definition									
Year introduced	2006			1954			2011	2019	2000
Epidemic threshold	Yes			Yes			No		No
Sampling strategy methodology	Convenience sampling			Convenience sampling				All cases	Convenience sampling
Sampling strategy	Each sentinel site collects up to 10 specimens per week from cases that meet the ECDC case definition. All age groups are included.			Depends on doctor's decision; non-systematic.					

Respiratory viruses surveillance profiles

Publicly available national bulletins	Influenza	COVID-19	RSV
	http://www.terviseamet.ee/nakkushaigused/gripi-info.html	https://www.terviseamet.ee/et/uuskoroonaviirus https://www.terviseamet.ee/sites/default/files/Nakkushaigused/ulevaade_23.08.2021.pdf	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Finland

Total population:

5,523,904

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological					Virological	Virological
Respiratory pathogens tested for									
Reporting period	Clinical: year-round; Virological: weeks 40-20		Clinical: year-round; Virological: weeks 40-20					Clinical: year-round; Virological: weeks 40-20	Clinical: year-round; Virological: weeks 40-20
Population covered (%)	50.0%		50.0%					Not known. All ICUs in Finland are included; specimens are collected on sentinel basis.	100.0%
Type of health facilities/hospitals	General practice		General practice					Intensive care unit	All hospitals and outpatient clinics
Number of health facilities/hospitals	Clinical: 160 facilities; Virological: 25 facilities		Clinical: 160 facilities; Virological: 25 facilities					13 intensive care units	All hospitals and outpatient clinics

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	ECDC		ECDC, WHO					ARI treated in intensive care unit	No case definition used
Description of national case definition									
Year introduced	2013		2013					2014	1995
Epidemic threshold	No		No					No	No
Sampling strategy methodology	Convenience sampling		Convenience sampling					Convenience sampling	Convenience sampling
Sampling strategy	Up to 5 specimens are collected per week.		Up to 5 specimens are collected per week.					Defined on clinical basis. All ICUs are asked to send 5-10 clinical samples from patients with clinically suspected influenza infection that require intensive care.	Defined on clinical basis.

Respiratory viruses surveillance profiles

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://thl.fi/fi/web/infektiotaudit/taudit-ja-mikrobit/virustaudit/influenssa/ajantasainen-influenssakatsaus	-	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

France

Total population:

64,668,129

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological.		Integrated clinical and virological		Integrated clinical and virological		Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2		Influenza		Influenza, RSV & SARS-CoV-2
Reporting period	will start Week 35-21		will start Week 35-21		year round		will start Week 35-21		Week 40-21
Population covered (%)									
Type of health facilities/hospitals			General practice		secondary/tertiary care hospitals		Intensive care unit		General hospitals
Number of health facilities/hospitals					3 hospitals		190 wards /hospitals		
Number of primary care practitioners	Clinical: 305 GP; Virological: 183 GP		Clinical: 305 GP; Virological: 183 GP						

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	National		National		WHO 2014		Laboratory-confirmed influenza and cases diagnosed as influenza by the clinician		No case definition used
Description of national case definition	Sudden onset of fever $\geq 39^{\circ}\text{C}$ with muscle pain and respiratory signs		Sudden onset of fever with ARI symptoms						
Year introduced	1984		2020		2021		2009		1994
Epidemic threshold	No		No		No		No		No
Sampling strategy methodology	Systematic sampling		Systematic sampling		all cases		All cases		
Sampling strategy	First ARI case of the week, irrespective of age. No difference in sampling procedure between start and peak of the season. If the patient has an ILI, it is mentioned on the clinical questionnaire.		First ARI case of the week, irrespective of age. No difference in sampling procedure between start and peak of the season.						No sampling strategy. All samples taken from in-patients for diagnosis of influenza

Respiratory viruses surveillance profiles

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.santepubliquefrance.fr/maladies-et-traumatismes/maladies-et-infections-respiratoires/grippe	https://www.santepubliquefrance.fr/maladies-et-traumatismes/maladies-et-infections-respiratoires/infection-a-coronavirus/documents/bulletin-national/covid-19-point-epidemiologique-du-5-aout-2021	https://www.santepubliquefrance.fr/maladies-et-traumatismes/maladies-et-infections-respiratoires/bronchiolite

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Georgia

Total population:

3,722,716

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological				Integrated clinical and virological				Virological
Respiratory pathogens tested for									
Reporting period	Year-round				Year-round				Year-round
Population covered (%)	1.7%				N/A				N/A

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Type of health facilities/ hospitals	General practice, pediatric practice, polyclinic				Children's hospital in Tbilisi and sentinel institutions in Kutaisi (4 hospitals) The following wards are included: resuscitation and intensive care, general therapeutics, pediatrics, obstetrics and gynecology, infectious disease, respiratory pathology, chronic pathology				Hospitals in Batumi, Akhaltsikhe and Zugdidi (virological surveillance only)
Number of health facilities/ hospitals	2 facilities				5 hospitals				N/A
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	WHO 2014				WHO 2014				PAHO/WHO, 2014, atypical cases of SARI
Description of national case definition	Measured fever of ≥ 38 °C and cough; with onset within the last 10 days				Measured fever of ≥ 38 °C and cough; with onset within the last 10 days; requires hospitalization				
Year introduced	2007				2007				2015
Epidemic threshold	No				No				No
Sampling strategy methodology	Systematic sampling				Systematic sampling				
Sampling strategy	Every third patient with ILI on Tuesdays and Thursdays				Every patient with ILI on Tuesdays and Thursdays				ICU patients and every atypical SARI case

Publicly available national bulletins	Influenza	COVID-19	RSV
	National Bulletin is issued at the end of the season (http://www.ncdc.gov/Handlers/GetFile.ashx?ID=07)	-	-

Respiratory viruses surveillance profiles

	<p>6a3d35-f135-4995-881f-7515fbd95ff9), however information on influenza activity during the season is updated weekly/daily on the NCDC homepage TM: Link: http://ncdc.ge/Pages/User/News.aspx?ID=0bfb5084-0108-4b9a-9b96-4d796359f1be</p>		
--	---	--	--

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Germany

Total population:

80,475,076

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system			Integrated clinical and virological		Clinical				Virological
Respiratory pathogens tested for			Influenza, RSV & SARS-CoV-2		SARS-CoV-2 only				
Reporting period			Year-round		Year-round				Year-round
Population covered (%)			>1%		>5%				
Type of health facilities/hospitals			General practice, pediatric practice		Hospitals with general wards				General practice, pediatric practice, hospitals, other laboratories
Number of health facilities/hospitals			~ 800 practices in season 2020/2021		72 hospitals				
Number of primary care practitioners									
Case definition used			National		National				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition			Patients with pharyngitis, bronchitis or pneumonia (with or without fever); Usage of ICD-10 codes for ARI: J00 – J22, B34.9, J44.0		Admitted patients with ICD-10 codes J09-J22				
Year introduced			1992		2015				1998
Epidemic threshold			No		No				No
Sampling strategy methodology			Convenience sampling		All cases				Convenience sampling
Sampling strategy			From season 2021/22: Specimens collected from the first ARI patients per week in different age groups; until season 2020/21: sampling of ILI-patients (using the ECDC case definition).		All SARI cases tested in hospital				No sampling strategy. Virological samples are sent to the NIC for further analysis/characterization from different sources.

Respiratory viruses surveillance profiles

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://influenza.rki.de/	Weekly Situation Reports (German): https://www.rki.de/DE/Content/InfAZ/N/Neuartiges_Coronavirus/Situation_sberichte/Wochenbericht/Wochenberichte_Tab.html Short daily Situation Reports (English) https://www.rki.de/EN/Content/infections/epidemiology/outbreaks/COVID-19/Situationsberichte_Tab.html	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Greece

Total population:

10,732,898

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological					Integrated clinical and virological		Integrated clinical and virological	
Respiratory pathogens tested for	Influenza & SARS-CoV-2					Influenza & SARS-CoV-2		Influenza	
Reporting period	Week 40-20					Week 40-20		Year-round	
Population covered (%)	~1.5%					100.0%		100.0%	
Type of health facilities/hospitals	Primary health care centres, private practitioners					All ICUs		All health facilities of the country including private practice offices	
Number of health facilities/hospitals	130 facilities								
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	ECDC					National		National	
Description of national case definition						Laboratory confirmed influenza		Laboratory confirmed influenza	
Year introduced	2004 (revised in 2014)					2010		2004	
Epidemic threshold	No					No		No	
Sampling strategy methodology	Convenience sampling					All cases		All cases	
Sampling strategy	Sampling plan: all age groups, at sentinel physician's discretion, up to 5 per week.								

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://eody.gov.gr/wp-content/uploads/2020/10/20.2021-FLU-WEEK.pdf	https://eody.gov.gr/wp-content/uploads/2021/08/covid-gr-daily-report-20210830.pdf	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Hungary

Total population:

9,771,141

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological								Virological
Respiratory pathogens tested for	Influenza & RSV								
Reporting period	Week 40-20								Week 40-20
Population covered (%)	>20%								Not available
Type of health facilities/hospitals	General practice, pediatric practice								
Number of health facilities/hospitals	1317 facilities								Not available
Number of primary care practitioners									
Case definition used	ECDC								No specified case definition

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition									
Year introduced	2005								
Epidemic threshold	Yes								No
Sampling strategy methodology	Convenience sampling								
Sampling strategy	Doctors are advised to collect 2 specimens of ILI patients per week per site								Sampling is performed for diagnostic purposes

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.antsz.hu/felso_menu/temaink/jarvany/influenza	-	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Iceland

Total population:

366,463

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system		Integrated clinical and virological		Clinical				Integrated clinical and virological	Integrated clinical and virological
Respiratory pathogens tested for									
Reporting period		Year-round		Year-round				Year-round	Year-round
Population covered (%)		100.0%		100.0%				100.0%	100.0%
Type of health facilities/hospitals		General practice, emergency department, long term care, selected private practitioners		General practice, emergency department				All health care facilities	
Number of health facilities/hospitals		94 facilities		94 facilities					
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used		National		National				ECDC	
Description of national case definition		ICD-10 codes J09, J10 and J11 with subcodes		Selected ICD-10 codes for respiratory symptoms and infections					
Year introduced		2009		2011				2009	
Epidemic threshold		Yes		No				No	
Sampling strategy methodology									
Sampling strategy		No sampling strategy. Sampling is based on clinical suspicion for diagnostic purposes						No sampling strategy	

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.landlaeknir.is/influenza/	https://www.covid.is/ https://www.landlaeknir.is/koronaveira/	N/A

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Ireland

Total population:

4,977,400

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological		Integrated clinical and virological				Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2		SARS-CoV-2 only		Influenza, RSV & SARS-CoV-2				Influenza & RSV
Reporting period	Year-round		Year-round		Year-round				Year-round
Population covered (%)	6.6%		6.6%		7.6%				Not available
Type of health facilities/hospitals	General practice		General practice		Hospital				Hospitals, GPs and nursing homes (excluding sentinel GPs)
Number of health facilities/hospitals	61 facilities		61 facilities		One				Not available
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	ECDC		National		WHO 2014				Testing based on clinical need
Description of national case definition			https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/casedefinitions/covid-19interimcasedefinitionforireland/						
Year introduced	2000		2020		2021				2000
Epidemic threshold	Yes								
Sampling strategy methodology	All cases		All cases		All cases				All cases
Sampling strategy									All cases reported

Publicly available national bulletins	Influenza	COVID-19	RSV
	http://www.hpsc.ie/a-z/respiratory/influenza/seasonalinfluenza/surveillance/influenzasurveillance-reports/	https://www.hpsc.ie/a-z/respiratory/coronavirus/novelcoronavirus/surveillance/	RSV data are reported in Influenza surveillance reports http://www.hpsc.ie/a-z/respiratory/influenza/seasonalinfluenza/surveillance/influenzasurveillance-reports/ . RSV is notifiable in Ireland and data on RSV notifications are also reported in HPSC's weekly infectious disease report. https://www.hpsc.ie/notifiablediseases/weekly-reports/

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Israel

Total population:

9,054,100

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Clinical.								Integrated clinical and virological
Respiratory pathogens tested for	Influenza & RSV								
Reporting period	Year-round								Year-round.
Population covered (%)	25.0%								25.0%
Type of health facilities/hospitals	General practice, pediatric practice. Community clinics of the 2nd largest health maintenance organization in the country								Tertiary medical center
Number of health facilities/hospitals	33 clinics - this is related to laboratory surveillance only								1 hospital

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	National								Hospitalized ARI cases
Description of national case definition	Acute fever of at least 37.8° accompanied by at least one of the following symptoms: runny nose, sore throat, cough, myalgia								
Year introduced	2000								2000
Epidemic threshold	Yes								No
Sampling strategy methodology	Convenience sampling								All cases
Sampling strategy	Convenience sampling. Swabs are taken from some ILI cases. Swabs are taken on the first or second day of illness.								Hospitalized ARI cases

Influenza	COVID-19	RSV
-----------	----------	-----

Respiratory viruses surveillance profiles

Publicly available national bulletins	https://www.gov.il/en/departments/publications/?limit=10&OfficeId=104cb0f4-d65a-4692-b590-94af928c19c0&utm_source=go.gov.il&utm_medium=referral	https://www.gov.il/en/departments/publications/?limit=10&OfficeId=104cb0f4-d65a-4692-b590-94af928c19c0&utm_source=go.gov.il&utm_medium=referral	https://www.gov.il/en/departments/publications/?limit=10&OfficeId=104cb0f4-d65a-4692-b590-94af928c19c0&utm_source=go.gov.il&utm_medium=referral
--	---	---	---

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Italy

Total population:

59,729,080

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological							Integrated clinical and virological	Virological
Respiratory pathogens tested for	Influenza & SARS-CoV-2							Influenza	Influenza & SARS-CoV-2
Reporting period	Clinical: week 42-17; Virological: week 46-17							Week 42-17	Week 46-17
Population covered (%)	Clinical: at least 2% of the regional population of each age group							100.0%	100.0%
Type of health facilities/hospitals	General practice, pediatric practice							Hospitals	Hospitals
Number of health facilities/hospitals								417	1000

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners	1,200								
Case definition used	ECDC							National	Not available
Description of national case definition								Every hospitalized patient in ICU and/or in ECMO with SARI (according to the WHO 2011 case definition) and/or ARDS symptoms is eligible. Only the positive cases for any of the influenza viruses are reported.	
Year introduced	1999							2009	2009
Epidemic threshold	Yes							No	No
Sampling strategy methodology	Convenience sampling							All cases	Convenience sampling

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	The protocol requests collection of at least 2 swabs per week for each MD by age group with no differences between the start and the peak of the season.							All cases hospitalized in ICU and/or in ECMO with SARI and ARDS symptoms confirmed for influenza must be reported.	Not available

Publicly available national bulletins	Influenza	COVID-19	RSV
	Two weekly bulletins (epi and vir) in Italian language https://w3.iss.it/site/RMI/influnet/pagine/rapportoInflunet.aspx	Weekly epi bulletin in Italian language [https://www.epicentro.iss.it/coronavirus/sars-cov-2-sorveglianza-dati] and by-weekly variant SARS-CoV-2 bulletin [https://www.iss.it/cov19-cosa-fa-iss-varianti]	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Kazakhstan

Total population:

18,513,673

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological			Integrated clinical and virological	Integrated clinical and virological				
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2			Influenza, RSV & SARS-CoV-2	Influenza, RSV & SARS-CoV-2				
Reporting period	Year-round			From W40 to W20, but ARVI cases are recorded all year round	Year-round				
Population covered (%)	8.8%			100.0%					

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Type of health facilities/ hospitals	Children's polyclinic, adult polyclinic			Polyclinics (for children and adults), infectious disease hospital, state hospital, pulmonary ward	Hospital departments: general, pediatric, pulmonary, infectious disease				
Number of health facilities/ hospitals	30 facilities				27 hospitals				
Number of primary care practitioners									
Case definition used	WHO 2011				WHO 2014				
Description of national case definition									
Year introduced	2008				2008				
Epidemic threshold	No			Yes	No				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy methodology	Systematic sampling			Convenience sampling	Systematic sampling				

Respiratory viruses surveillance profiles

Sampling strategy	<p>Samples are taken from patients over 1 year of age who meet the standard ILI case definition and have been ill no more than 72 hours, with a minimum of 3 and no more than 5 patients from each age group: 1–4, 5–14, 15–29, 30–64, 65 and older. Collection of samples from ILI patients is carried out by a mobile team at the patient’s house. Each polyclinic sends a mobile team with a clinical physician to the patients who are subject to laboratory examination: in a four-week month, once; in a five-week month, twice. If there was no visit for some reason, the schedule for that day may include taking samples at</p>	<p>Monthly, in at least 10 patients with ARVI, influenza, with pronounced clinical symptoms in the pre-epidemic and epidemic periods of ARVI and influenza</p>	<p>Samples are taken from patients with SARI (in children over 1 year of age, no later than 72 hours from the onset of the disease; for people over 18, no later than 7 days from the onset of the disease). Swabs are taken from not more than 1 patient daily from each age group: 1–4 and 5–14 in children’s hospitals, 15–29, 30–64, 65 and older in adult hospitals. Over the week, at least 3 people from each age group are examined (with the total number for all age groups per week is at least 15).</p>					
--------------------------	---	--	---	--	--	--	--	--

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
	the polyclinic's triage point.								

Publicly available national bulletins	Influenza	COVID-19	RSV
	Information is posted weekly on the sites mz.gov.kz, npc-ses.kz, ses.dec.kz and sent by mail to all stakeholders	We do not have a national bulletin, but all information on COVID-19 in the country and the world is posted weekly on the sites https://hls.kz, mz.gov.kz and npc-ses.kz	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Kyrgyzstan

Total population:

6,456,500

Income group:

lower middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological			Clinical	Integrated clinical and virological		Virological		Clinical
Respiratory pathogens tested for									
Reporting period	Weekly, year-round			Weekly, year-round	Weekly, year-round		Weekly, year-round		Weekly, year-round
Population covered (%)	N/A		100.0%	N/A					

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Type of health facilities/ hospitals	Polyclinics			Polyclinics and hospitals	Hospitals			It is carried out using PCR in the National Virological Laboratory and in 3 virological laboratories of the Centers for Disease Control and Prevention and state sanitary and epidemiological surveillance (in the cities of Osh and Bishkek and in the Ysyk-Ata District).	
Number of health facilities/ hospitals	4 facilities			All healthcare organizations in the republic excluding private ones	5 hospitals			At the moment, confirmation is carried out in 4 virological laboratories	
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	WHO 2014			National	WHO 2014				
Description of national case definition	Standard case definition for influenza-like illness (ILI): An acute respiratory illness with onset during the last 7 days with: <ul style="list-style-type: none"> • measured temperature \geq 38 °C; • cough 			Acute upper respiratory infections of multiple and unspecified sites (code J06 according to ICD-10)	Standard case definition for Severe Acute Respiratory Infection (SARI): an acute respiratory disease with onset during the last 7 days, requiring hospitalization and characterized by: <ul style="list-style-type: none"> • a history of fever or measured fever \geq 38°C; • cough 		An influenza case confirmed by one of the laboratory diagnostic methods recommended for the diagnosis of influenza in the country		
Year introduced	2016			2009	2009			2005	
Epidemic threshold	No			Yes	No			No	Yes

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy methodology	Convenience sampling				Convenience sampling				
Sampling strategy	The first patients who applied, older than 1 year, meeting the standard case definition of ILI, at least 3 patients from each treatment group within a week, with disease duration no more than 7 days from onset			No samples collected	The first patients who applied, older than 1 year, meeting the standard case definition of SARI, at least 3 patients from each treatment group within a week, with disease duration no more than 7 days from onset				

Publicly available national bulletins	Influenza	COVID-19	RSV
	The website of the Department of Disease Prevention and State Sanitary and Epidemiological Surveillance is currently being revised, providing a special section on influenza to reflect the relevant activities.	-	-

Respiratory viruses surveillance profiles

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Latvia

Total population:

1,913,822

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Clinical		Integrated clinical and virological		Clinical				Virological
Respiratory pathogens tested for									
Reporting period	Week 40/2020 to week/2021		Week 40/2020 to week/2021		Week 40/2020 to week/2021				Year-round
Population covered (%)	4.8%		4.8%						
Type of health facilities/hospitals	General practice, pediatric practice		General practice, pediatric practice		8 regional hospitals and 2 hospitals in capital city				All types of hospitals and outpatient facilities
Number of health facilities/hospitals					10 hospitals				
Number of primary care practitioners	57 general practitioners		57 general practitioners						

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	ECDC		ECDC, WHO		National				
Description of national case definition					By ICD-10 influenza and influenza-associated pneumonia.				
Year introduced	1995		1995		2006				
Epidemic threshold	Yes		Yes		No				No
Sampling strategy methodology	Convenience sampling		Convenience sampling		Convenience sampling				Convenience sampling
Sampling strategy	ILI cases are preferably sampled at the GPs sentinel sites and include patients in all age groups. No specimens for sentinel were taken in the 2020-2021 season by GPs								Hospitalized severe ILI cases are sampled at any time (24 hrs./7 days per week).

Publicly available national bulletins	Influenza	COVID-19	RSV
	The influenza bulletins are published weekly (from week 40 till week 20), also available bulletin for the	Statistics of COVID-19 : https://www.spkc.gov.lv/lv/covid-19-statistika	No

Respiratory viruses surveillance profiles

	season: https://www.spkc.gov.lv/lv/parskati-par-akutu-augsejo-elpcelu-infekciju-un-gripas-izplatibu		
--	---	--	--

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Lithuania

Total population:

2,794,633

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological						
Respiratory pathogens tested for	Influenza only		Influenza & RSV						Influenza, RSV & SARS-CoV-2
Reporting period	Year-round		Year-round						Year-round
Population covered (%)	2.2%		2.2%						
Type of health facilities/hospitals	General practice		General practice						
Number of health facilities/hospitals	109 facilities		109 facilities						
Number of primary care practitioners									
Case definition used	ECDC		ECDC, WHO						

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition									
Year introduced	2004		2004						
Epidemic threshold	Yes		Yes						
Sampling strategy methodology	Convenience sampling		Convenience sampling						
Sampling strategy	All cases are included		On Tuesday according to medical doctor's decision						

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://nvsc.lrv.lt/lt/uzkreiciamuju-ligu-valdymas/gripas-1/sergamumo-gripu-ir-umiomis-virusiniu-kvepavimo-taku-infekcijomis-duomenys	https://osp.stat.gov.lt/praejusios-paros-covid-19-statistika	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Luxembourg

Total population:

576,243

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Virological	Clinical						Virological
Respiratory pathogens tested for	Influenza & SARS-CoV-2								Influenza & SARS-CoV-2
Reporting period	Week 40-20	started week 2020-40 for Influenza. Started week 2020-09 for Covid-19. No RSV data	Week 40-20						started week 2020-40 for Influenza. Started week 2020-09 for Covid-19
Population covered (%)	3.0%		3.0%						Not available.
Type of health facilities/hospitals	General practice, pediatrician practice		General practice, pediatrician practice						All private and hospital clinical laboratories are required to report positive samples

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/ hospitals	15 facilities		15 facilities						3 private and 4 hospital laboratories
Number of primary care practitioners									
Case definition used	ECDC		ECDC, WHO						ECDC
Description of national case definition	Respiratory symptoms and sudden fever >38.0° and myalgia								
Year introduced	2003		2003						2020
Epidemic threshold	Yes		No						No
Sampling strategy methodology	All cases								All cases
Sampling strategy	In principle, all patients are sampled		No samples collected						All laboratory confirmed cases are reported

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://lns.lu/departement/microbiologie/surveillance-de-la-grippe/	-	-

Respiratory viruses surveillance profiles

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Malta

Total population:

504,115

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological								Virological
Respiratory pathogens tested for									
Reporting period	Week 40-20								Week 36-20
Population covered (%)	25.0%								100.0%
Type of health facilities/hospitals	General practice.								State hospital
Number of health facilities/hospitals	8 facilities								1 hospital
Number of primary care practitioners									
Case definition used	WHO 2014								WHO 2014

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition									
Year introduced	2003								2009
Epidemic threshold	No								No
Sampling strategy methodology	Convenience sampling								
Sampling strategy	Patients that accept having a specimen taken								At the discretion of the hospital respiratory physician or pediatrician

Publicly available national bulletins	Influenza	COVID-19	RSV
No		-	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Montenegro

Total population:

622,028

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Integrated clinical and virological			Integrated clinical and virological	Integrated clinical and virological		Virological	
Respiratory pathogens tested for					Influenza & SARS-CoV-2	Influenza & SARS-CoV-2		Influenza	
Reporting period	Week 40-20	Week 40-20			Week 40-20	Week 40-20.			
Population covered (%)	Not available	100.0%			Not available	Not available		Not available	
Type of health facilities/hospitals	General practice, pediatric practice	General practice, pediatric practice, polyclinic			General hospitals, Clinical Centre of Montenegro. Special Hospital for Respiratory diseases Brezovik, General Hospital Berane	General hospitals, Clinical Centre of Montenegro		General hospitals, Clinical Centre of Montenegro. All General Hospitals	
Number of health facilities/hospitals	4 facilities	29 facilities			3 hospitals	8 hospitals		8 hospitals	
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	ECDC	ECDC			WHO 2014	WHO 2014		ECDC	
Description of national case definition									
Year introduced	2015/2016	2009			2016	2016		2009	
Epidemic threshold		Yes				No			
Sampling strategy methodology	Convenience sampling				All cases	All cases			
Sampling strategy	The first suspected case of ILI in each week is sampled				All SARI cases are sampled at all times	All SARI cases are sampled at all times			

Publicly available national bulletins	Influenza	COVID-19	RSV
	We have a publicly available national weekly influenza bulletin. Available at: http://www.ijzcg.me/2018/05/%d0%b5pid%d0%b5mi%d0%bel%d0%bes%d0%bai-n%d0%b0dz%d0%ber-n%d0%b0d-grip%d0%bem-u-s%d0%b5z%d0%beni-20172018-20-sedmica-2018-godine/	We have a daily report for new Covid-19 cases at http://www.ijzcg.me	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Netherlands

Total population:

17,441,139

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological						Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2						Influenza, RSV & SARS-CoV-2
Reporting period	Year-round		Year-round						Year-round
Population covered (%)	0.9%		1) ARI syndrome: 9% 2) ARI virology: 0.9%						
Type of health facilities/hospitals	General practice		1) ARI syndrome: general practice 2) ARI virology: general practice; same network as sentinel ILI						Virology diagnostic laboratories; mostly hospital based
Number of health facilities/hospitals	41 facilities		1) 380 facilities 2) 41 facilities						1) 18 laboratories 2) 20 laboratories (11 overlap with (1))

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	National		National						1) 5-6 influenza virus positive specimens max per week per laboratory; randomly selected and special cases. 2) All influenza virus, RSV and SARS-CoV-2-positive laboratory diagnoses
Description of national case definition	Acute onset and rectal temperature >38°C and at least one of the following symptoms: cough, coryza, sore throat, frontal headache, retrosternal pain, myalgia		1) ICPC codes R74, R75, R77, R78, R80, R81. 2) Any ARI other than ILI (ICPC codes R74, R77, R78, R80, R81)						Based on diagnostic requests from physicians; no specific case definition

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Year introduced	1970; testing of specimens introduced in 1994		1) 2015 2) 1994						1) 1948 2) 1964
Epidemic threshold	Yes		No						No
Sampling strategy methodology	Convenience sampling		Convenience sampling						Convenience sampling
Sampling strategy	The first two ILI patients. If there are no ILI patients Monday -Wednesday, then the first two ILI or ARI patients presenting Thursday - Sunday. In the absence of ILI cases, samples are collected from ARI cases. Preferably at least one child with age < 10 yrs.		1) No sampling, syndromic surveillance only 2) See ILI surveillance						Based on diagnostic requests from physicians; no national sampling strategy

Influenza	COVID-19	RSV
------------------	-----------------	------------

Respiratory viruses surveillance profiles

Publicly available national bulletins	https://www.erasmusmc.nl/nl-nl/link-pages/influenza-surveillance-nieuwsbrief , https://www.rivm.nl/griep-grieprik/feiten-en-cijfers , www.nivel.nl/surveillance	https://www.rivm.nl/coronavirus-covid-19/actueel/wekelijkse-update-epidemiologische-situatie-covid-19-in-nederland	https://www.rivm.nl/rs-virus/stand-van-zaken-rs-virus https://www.rivm.nl/griep-grieprik/feiten-en-cijfers
--	---	---	---

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

North Macedonia

Total population:

2,081,012

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Clinical	Clinical		Integrated clinical and virological				Integrated clinical and virological
Respiratory pathogens tested for	Influenza & SARS-CoV-2	Influenza & SARS-CoV-2	Influenza & SARS-CoV-2	Influenza & SARS-CoV-2	Influenza, RSV & SARS-CoV-2	Influenza, RSV & SARS-CoV-2			
Reporting period	Week 40-20	Week 40-20	Week 40-20		Week 40-20				Week 40-20
Population covered (%)	2.0%	100.0%	2.0%	100.0%					100.0%
Type of health facilities/hospitals	General practices	General practice, pediatric practice, polyclinic, infectious disease clinic, all other health facilities from primary care, secondary care and tertiary level of health care	General practices						

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/ hospitals	18 facilities	All	18 facilities		5 hospitals				
Number of primary care practitioners									
Case definition used	WHO 2014.		ECDC, WHO		WHO 2014.				Laboratory-confirmed influenza
Description of national case definition									
Year introduced	2014	1966	2014		2014				
Epidemic threshold	Yes	Yes	No						
Sampling strategy methodology	Convenience sampling								Convenience sampling

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	For sentinel ILI/ARI, as of the 2017-2018 season, advice is to collect 2 specimens per site per week from first patients presenting with ILI. All age groups are included in sampling and all cases are included in the sampling strategy. The sampling strategy envisages increasing the number of samples per week going to the peak, according to IPH Epi department.		No samples collected		All reported cases are included in the sampling strategy				For universal surveillance there is no sampling strategy. Based on clinician's decision.

Publicly available national bulletins	Influenza	COVID-19	RSV
	http://www.iph.mk/en/multimedia/diseases-reports/	http://www.iph.mk/%d1%81%d0%be%d1%81%d1%82%d0%be%d1%98%d0%b1%d0%b0-%d1%81%d0%be-covid-19-%d0%b2%d0%be-	No

Respiratory viruses surveillance profiles

		%d1%80%d0%b5%d0%bf%d1%83%d0%b1%d0%bb%d0%b8%d0%ba%d0%b0-%d1%81%d0%b5%d0%b2%d0%b5%d1%80%d0%bd%d0%b0-%d0%bc%d0%b0-3/ http://iph.mk/wp-content/uploads/2021/08/info-COVID-19-do-29.08.2021.pdf	
--	--	--	--

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Norway

Total population:

5,379,475

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Virological	Clinical		Clinical				Integrated clinical and virological	Virological.
Respiratory pathogens tested for								Influenza	
Reporting period	Year-round	Week 40-20		Year-round				Year-round	Year-round
Population covered (%)	3.0%	99.0%		99.0%				100.0%	100.0%
Type of health facilities/hospitals	General practices, emergency clinics in primary health care	General practices, emergency clinics in primary health care		General practices, emergency clinics in primary health care				All hospitals in Norway and all medical microbiology laboratories performing influenza virus diagnostics	Medical microbiology laboratories performing influenza virus diagnostics
Number of health facilities/hospitals	70 facilities	5849 facilities		5849 facilities				All hospitals in Norway	19 laboratories

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	WHO 2014	National		National				National	National

Respiratory viruses surveillance profiles

Description of national case definition		<p>ICPC-2 diagnosis code "R80 influenza" where an ILI case is defined as: myalgia and cough without abnormal findings upon airway examination except inflammation of nasal mucosa and throat, plus three or more of the following:</p> <ul style="list-style-type: none"> - sudden onset of symptoms (within 12 hours); - fever, chills or feverishness; - malaise and fatigue; - influenza in the community; - ongoing influenza epidemic; - laboratory confirmed influenza. 		<p>ICPC-2 diagnosis code "R05 cough", "R74 Acute upper respiratory infection", "R78 Acute bronchitis/ bronchiolitis" and "R83 respiratory infection not classified elsewhere. R05 includes productive or non-productive/dry cough. R74 includes acute rhinitis, pharyngitis, cold, nasopharyngitis, upper respiratory infections. R78 includes acute lower respiratory infection not classified elsewhere, bronchitis not classified elsewhere, larynges tracheobronchitis, respiratory infection not classified elsewhere and tracheobronchitis. R83 respiratory infections not classified elsewhere; includes diphtheria, emphysema, epiglottitis, chronic pharyngitis, chronic nasopharyngitis, chronic rhinitis not classified elsewhere, fungal respiratory infection, lung abscess,</p>				<p>Inpatient hospital admission + ICD-10 code for influenza (J09-J11) + RT-PCR tests positive for influenza A/B virus.</p>	<p>Laboratory confirmed influenza.</p>

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
				protozoal infection (without pneumonia).					
Year introduced	Laboratory sentinel system was introduced in 1979	2014. Prior to this there was a sentinel system for ILI that started in 1998; before that clinical influenza was notifiable (aggregated)		2017				2020	1982
Epidemic threshold		Yes						No	No.
Sampling strategy methodology	Convenience sampling							All cases	All cases

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	70 general practices and primary care emergency wards are participating in the voluntary network of influenza sentinel practices coordinated by the NIC. These send in ILI patient specimens all year round, based on the WHO 2014 case definition. All ages included but bias toward working-age patients.			No samples collected				New register-based surveillance system established in the Norwegian Emergency Preparedness Register for COVID-19. Temporary surveillance system. Hospitalization data from the Norwegian Patient Register is linked to data from the MSIS Laboratory Database which contains test results from all medical microbiology laboratories in Norway. All cases and age groups are included. Case-based data. The surveillance data can be stratified on age, sex, regional health authority and ventilator usage. Coinfections with SARS-CoV-2 can also be detected.	Medical microbiology laboratories that perform influenza virus diagnostics daily report all detections, by type and subtype, as case based data to MSIS Laboratory Database from 2020-21-season. These labs also submit influenza positive specimens to the NIC, each up to five samples per type per week plus special cases (severe, unusual circumstances, suspicion of resistance).

Respiratory viruses surveillance profiles

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.fhi.no/sv/influenza/influensovervakning/	https://www.fhi.no/publ/2020/koronavirus-ukerapporter/	Not currently. Planning to publish lab data for RSV and other resp. viruses on NIPH website this fall

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Poland

Total population:

38,354,173

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological								Integrated clinical and virological
Respiratory pathogens tested for									
Reporting period	Year-round								Year-round
Population covered (%)	3.0%								100.0%
Type of health facilities/hospitals	General practice								General practice, hospitals
Number of health facilities/hospitals	517 facilities								
Number of primary care practitioners									
Case definition used	ECDC								ECDC

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition									
Year introduced	2004								1951
Epidemic threshold	No								No
Sampling strategy methodology	Convenience sampling								Convenience sampling
Sampling strategy	Collection of specimens 7 days a week (by age and sentinel site) is recommended. The sampling procedure is the same during the whole season - all cases and all age groups are included.								There is no national sampling strategy. Sampling is based on the doctor's decision.

Publicly available national bulletins	Influenza	COVID-19	RSV
	http://wwwold.pzh.gov.pl/oldpage/epimeld/grypa/aindex.htm	-	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Portugal

Total population:

10,286,263

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological				Integrated clinical and virological		Virological
Respiratory pathogens tested for			Influenza, RSV & SARS-CoV-2						
Reporting period	Clinical: year-round; virological: year around	Clinical: year-round; virological: year around	Clinical: year-round; virological: year around				week 40 to week 20		
Population covered (%)	unknown	unknown	unknown				unknown		

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Type of health facilities/hospitals	General Practitioners (GP) and since 2020 also the specific COVID-19 units (units existing in all primary care centers to specifically attended respiratory patients)	General Practitioners (GP) and since 2020 also the specific COVID-19 units (units existing in all primary care centers to specifically attended respiratory patients)	General Practitioners (GP) and since 2020 also the specific COVID-19 units (units existing in all primary care centers to specifically attended respiratory patients)				Intensive care units		Non sentinel surveillance: hospitals and emergency departments
Number of health facilities/hospitals	13 specific COVID-19 centers and around 50 GP	13 specific COVID-19 centers and around 50 GP	13 specific COVID-19 centers and around 50 GP				33 ICU		29 hospitals
Number of primary care practitioners									
Case definition used	ECDC		ECDC, WHO				National		ECDC
Description of national case definition							Hospitalized influenza-confirmed cases by RT-PCR		
Year introduced	1989		2020				2011-2012		2009
Epidemic threshold	Yes						No		No

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy methodology	Convenience sampling		Systematic sampling						
Sampling strategy	Samples are collected from ILI cases, from GP patient list, all ages, and during the whole season. This strategy has been interrupted after the SARS-CoV-2 emergency as all respiratory patients are attended in specific health facilities.		5 weekly samples by center in a specific day				All respiratory patients admitted in ICU are tested for influenza (and now also for SARS-CoV-2)		Hospitals reported all cases weekly tested for influenza

Publicly available national bulletins	Influenza	COVID-19	RSV
	http://www.insa.min-saude.pt/category/informacao-e-cultura-cientifica/publicacoes/atividade-gripal/	-	

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Republic of Moldova

Total population:

3,545,124

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Clinical	Integrated clinical and virological	Clinical	Integrated clinical and virological	Clinical			Integrated clinical and virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2				Influenza & SARS-CoV-2
Reporting period	Year-round	Weekly from week 40 to week 20. Monthly from week 21 to week 39	Year-round	Weekly from week 40 to week 20. Monthly from week 21 to week 39	Year-round	Weekly from week 40 to week 20. Monthly from week 21 to week 39			
Population covered (%)	11.0%	100.0%	11.0%	100.0%	43.0%	100.0%			
Type of health facilities/hospitals	Health centres	Health centres	Health centres	Health centres	Intensive care unit, general/internal medicine, pediatric medicine, infectious disease and respiratory disease ward, therapeutic/chronic disease ward				Intensive care unit, general medicine, paediatric medicine, infectious disease and respiratory disease ward, chronic disease ward, medical centres

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/hospitals	10 facilities	~369 facilities	10 facilities	~369 facilities	12 hospitals	~68 hospitals			492 facilities
Number of primary care practitioners									
Case definition used	WHO 2014	WHO 2014	ECDC, WHO	ECDC, WHO	WHO 2014	WHO 2014			ILI – WHO, 2014; ARI – ECDC/WHO; SARI – WHO, 2014
Description of national case definition									
Year introduced	2017	2017	2017	2017	2017	2017			2017
Epidemic threshold	Yes	Yes	Yes	Yes	No	No			No
Sampling strategy methodology	Convenience sampling		Convenience sampling		Convenience sampling				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	12 swabs are collected weekly (between week 40 and week 20) from the first patient who meet the ILI/ARI case definition. These swabs are performed between week 40 and week 20; outside this period swabs are collected in case of their existence. All age groups are included in the sampling.	During the flu season, when necessary, samples from non-sentinel facilities to the flu are investigated. It is not a programmed number of samples. Varies from season to season.	12 swabs are collected weekly (between week 40 and week 20) from the first patient who meet the ILI/ARI case definition. These swabs are performed between week 40 and week 20; outside this period swabs are collected in case of their existence. All age groups are included in the sampling.	During the flu season, when necessary, samples from non-sentinel facilities to the flu are investigated. It is not a programmed number of samples. Varies from season to season.	20 swabs are collected weekly from first patient who meet the SARI/ILI case definition. These swabs are performed between week 40 and week 20; outside this period swabs are collected in case of their existence. All age groups are included in the sampling.	During the flu season, when necessary, samples from non-sentinel facilities to the flu are investigated. It is not a programmed number of samples. Varies from season to season.			Non-sentinel facilities collect samples in more severe ILI and SARI cases.

Publicly available national bulletins	Influenza	COVID-19	RSV
	Note: a bulletin is available but not online. Regular updates (not weekly) available at: www.ansp.md	Daily presentation at https://msmps.gov.md/minister/comunicare/comunicate/ Dashboard: https://qismoldova.maps.arcgis.com/apps/opsdashboard/index.html#/d274da857ed345efa66e1fbc959b021b	No

Respiratory viruses surveillance profiles

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Romania

Total population:

22,154,572

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Integrated clinical and virological		Integrated clinical and virological				Virological
Respiratory pathogens tested for					Influenza & SARS-CoV-2				
Reporting period	Year-round		Year-round		Week 46-20				Week 40-20
Population covered (%)	2.0%		2.0%		16.0%				100.0%
Type of health facilities/hospitals	General practice		General practice		ERs, Intensive care unit, general/internal medicine, pediatric medicine, infectious disease ward, respiratory disease ward				Hospitals, primary health care practices, specialized medical practices, health centres, outpatient clinics, emergency services providers, home care providers, long term care institutions
Number of health facilities/hospitals	192 facilities		192 facilities		18 hospitals				Around 12,000 GPs and 10,000 other health facilities/hospitals

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	WHO 2014.		ECDC, WHO		National				For ILI: WHO 2014
Description of national case definition	An acute respiratory illness with fever $\geq 38^{\circ}\text{C}$, cough, onset within the last 10 days, in the absence of other clinical diagnosis.		An acute respiratory illness with sudden onset and at least one of the following: cough, sore throat, breathing difficulties, coryza.		An acute respiratory illness with a history of fever or measured fever of $\geq 38^{\circ}\text{C}$ and cough and shortness of breath or difficulty breathing, with onset within the past 10 days, requiring hospitalization overnight.				For ILI: WHO 2014.
Year introduced	2014		2001		2009				2014
Epidemic threshold	Yes		Yes		Yes				No
Sampling strategy methodology	Systematic sampling		Convenience sampling		All cases				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	On Tuesdays from week 40 (onset of influenza season) swabs are collected from all cases presented and who meet the ILI case definition. After the onset of the season the algorithm is established by the National Center, according to specific season parameters.		Depending on the epidemiological context, ARI cases can be sampled and tested for influenza. All ILI negative cases should have been tested for COVID-19		Between week 46 and week 20, ALL detected SARI cases in each sentinel hospital should have been sampled and tested both for influenza and COVID-19.				For ILI: there is only a sentinel sampling strategy. Non-sentinel: sampling is done for the more serious cases, depending on the funds available for payment of the tests.

Publicly available national bulletins	Influenza	COVID-19	RSV
	http://www.cnsctb.ro/index.php/informari-saptamanale/gripa We also send a detailed analysis to the data sources.	http://www.cnsctb.ro/index.php/analiza-cazuri-confirmate-covid19	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Russian Federation

Total population:

146,459,803

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Integrated clinical and virological	Integrated clinical and virological	Integrated clinical and virological	Integrated clinical and virological	Clinical			
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2	Influenza, RSV & SARS-CoV-2	Influenza, RSV & SARS-CoV-2	Influenza, RSV & SARS-CoV-2	Influenza, RSV & SARS-CoV-2	Influenza, RSV & SARS-CoV-2			
Reporting period	Year-round	Year-round	Year-round	Year-round	Year-round	Year-round			
Population covered (%)	About 15% of the population lives in cities with sentinel sites	35.0%	About 15% of the population lives in cities with sentinel sites	35.0%	About 15% of the population lives in cities with sentinel sites	35.0%			About 35% of the population

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Type of health facilities/ hospitals	Polyclinics, infectious disease hospitals, general hospitals (infectious disease wards)	Polyclinics, infectious disease hospitals, general hospitals (infectious disease wards)	Polyclinics, infectious disease hospitals, general hospitals (infectious disease wards)	Polyclinics, infectious disease hospitals, general hospitals (infectious disease wards)	Infectious disease hospitals for adults and children, infectious disease wards at general hospitals, intensive care units	Infectious disease hospitals for adults and children, infectious disease wards at general hospitals, intensive care units			Polyclinics, infectious disease hospitals, general hospitals (infectious disease wards)
Number of health facilities/ hospitals	14 polyclinics	61 cities	14 polyclinics	61 cities	19 hospitals in 8 cities	61 cities			58 laboratories
Number of primary care practitioners									
Case definition used	WHO 2011	No case definition used	WHO 2011	No case definition used	WHO 2011	No case definition used			
Description of national case definition									
Year introduced	2010	2005	2010	1971	2010				1971

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Epidemic threshold	No	Yes	No	Yes	No	No			No
Sampling strategy methodology	Convenience sampling	Convenience sampling	Convenience sampling	Convenience sampling	Systematic sampling	Convenience sampling			Convenience sampling
Sampling strategy	The average number of samples from patients with ILI/ARI is 29 per week on average for each city; all age groups are included.	Convenience sampling	The average number of samples from patients with ILI/ARI is 29 per week on average for each city; all age groups are included.	Convenience sampling	Samples are taken from SARI patients, selected as per the WHO, 2011, definition. During the COVID-19 pandemic, the percentage tested is 50–60%	Convenience sampling			Every week 10–50 samples in the city are tested for influenza on average. The exact number is determined by the epidemiological situation.

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.influenza.spb.ru/system/epidemic_situation/laboratory_diagnostics/ https://www.influenza.spb.ru/en/influenza_surveillance_system_in_russia/epidemic_situation/	https://www.influenza.spb.ru/system/epidemic_situation/laboratory_diagnostics/ http://стопкоронавирус.рф https://www.influenza.spb.ru/en/influenza_surveillance_system_in_russia/epidemic_situation/	https://www.influenza.spb.ru/system/epidemic_situation/laboratory_diagnostics/ https://www.influenza.spb.ru/en/influenza_surveillance_system_in_russia/epidemic_situation/

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Serbia

Total population:

6,945,235

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Integrated clinical and virological	Clinical		Integrated clinical and virological		Integrated clinical and virological	Integrated clinical and virological	Virological
Respiratory pathogens tested for	Influenza & RSV	Influenza & RSV			Influenza & RSV		Influenza	Influenza	Influenza, RSV & SARS-CoV-2
Reporting period	Year-round	Year-round			Year-round		Year-round	Year-round	Year-round
Population covered (%)		100.0%			80.0%				
Type of health facilities/hospitals		General practice, pediatric practice			Intensive care unit, general/internal medicine, pediatric medicine, infectious disease ward, respiratory disease ward				
Number of health facilities/hospitals	357 doctors till 39 week of surveillance in the season 2020/2021	158 facilities			10 hospitals				
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	WHO 2011	WHO 2011.			WHO 2011.				
Description of national case definition									
Year introduced	2009	2006			2009				
Epidemic threshold		Yes			Yes				
Sampling strategy methodology	Convenience sampling	Convenience sampling			Convenience sampling				
Sampling strategy	ILI cases are sampled mostly during the first 4 days in the week. All age groups are included in sampling.	ILI cases are sampled mostly during the first 4 days in the week. All age groups are included in sampling.			Sentinel SARI cases are sampled mostly during the first 4 days in the week. All age groups are included in sampling.				

Publicly available national bulletins	Influenza	COVID-19	RSV
	www.batut.org.rs	www.batut.org.rs	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Slovakia

Total population:

5,454,147

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Clinical.	Integrated clinical and virological	Clinical.		Integrated clinical and virological.			
Respiratory pathogens tested for	Influenza only		Influenza only			Influenza & SARS-CoV-2			
Reporting period		Year-round		Year-round		Year-round			Year-round
Population covered (%)		100.0%		100.0%		100.0%			53.2%
Type of health facilities/hospitals		General practice, pediatric practice		General practice, pediatric practice		Intensive care unit			General practice, pediatric practice, hospitals
Number of health facilities/hospitals		88 facilities		88 facilities		74 hospitals			3635 facilities
Number of primary care practitioners									
Case definition used		ECDC		ECDC, WHO		WHO 2014			ECDC, WHO, WHO 2014

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition									
Year introduced		2002		2002		2009			2002
Epidemic threshold		Yes		Yes		No			
Sampling strategy methodology		Convenience sampling		Convenience sampling		All cases			
Sampling strategy	five samples by GP(or pediatrician) by week	Based on the doctor's decision. All cases are included in the sampling strategy	five samples by GP(or pediatrician) by week	Based on the doctor's decision. All cases are included in the sampling strategy		All reported SARI cases are laboratory tested			

Publicly available national bulletins	Influenza	COVID-19	RSV
	During the influenza season some data can be viewed on the website - www.uvzsr.sk	actual daily data can be viewed on the website www.korona.gov.sk , www.health.gov.sk	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Slovenia

Total population:

2,100,126

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological.		Clinical						Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2								
Reporting period	Year-round		Year-round						Year-round
Population covered (%)	4.0%		4.0%						100.0%
Type of health facilities/hospitals	Family practices, pediatric practices, school doctors		Family practices, pediatric practices, school doctors						Hospitals
Number of health facilities/hospitals	44 facilities		44 facilities						All facilities/hospitals.
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	ECDC		ECDC, WHO						No case definition used. Most samples are derived from hospitalized patients with ARI, but not exclusively
Description of national case definition									
Year introduced	1999		1999						2010
Epidemic threshold	No		No						No
Sampling strategy methodology	Convenience sampling								
Sampling strategy	Samples are collected from ILI patients. More intensive sampling is advised during the beginning and end of the season. The number of samples is not limited		No samples are collected						

Influenza	COVID-19	RSV
------------------	-----------------	------------

Respiratory viruses surveillance profiles

Publicly available national bulletins	https://www.nijz.si/sl/tedensko-spremljanje-gripe-in-drugih-akutnih-okuzb-dihal-v-sezoni-20202021	https://www.nijz.si/sl/dnevno-spremljanje-okuzb-s-sars-cov-2-covid-19	https://www.nijz.si/sl/tedensko-spremljanje-respiratornega-sincicijskega-virusa-rsv
--	---	---	---

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Spain

Total population:

47,351,567

Income group:

high

System characteristic	Primary care				Hospital*				Other**	
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza			
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal		
Surveillance system			Integrated clinical and virological		Integrated clinical and virological					Virological
Respiratory pathogens tested for			Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2					Influenza & RSV
Reporting period			Clinical: week 40-39. Virological: week 40-39		Year-round (week 40-39)					
Population covered (%)			0.9% regarding the participants Spanish regions		11.9% regarding the participants Spanish regions					
Type of health facilities/hospitals			General practice, pediatric practice		All wards mainly in public general hospitals					Laboratories mainly in public hospitals
Number of health facilities/hospitals			213 facilities		13 hospitals					
Number of primary care practitioners										
Case definition used			National		National					

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition			ARI with sudden onset of one of the following symptoms: fever, cough or shortness of breath, considering also anosmia/ageusia			SARI with onset in the last 10 days requiring hospitalization			
Year introduced			2020			2020			1996
Epidemic threshold			No			No			
Sampling strategy methodology			Systematic sampling			Systematic sampling			
Sampling strategy			Samples are collected from the first 2-5 ARI patients (depending of the region) who attend the sentinel facility during the week. All age groups are included in sampling			Samples are collected from all SAR patients hospitalized on Tuesday and/ or Wednesday			

Publicly available national bulletins	Influenza	COVID-19	RSV
	National weekly ARI/SARI surveillance bulletin; Available in : https://www.isciii.es/QueHacemos/Servicios/VigilanciaSaludPublicaRENAVE/EnfermedadesTransmisibles/Paginas/Temporada_Gripe_2010-21.aspx	National weekly COVID-19 universal surveillance bulletin; Available in https://www.isciii.es/QueHacemos/Servicios/VigilanciaSaludPublicaRENAVE/EnfermedadesTransmisibles/Paginas/InformesCOVID-19.aspx	RSV circulation in Spain is included in the National weekly ARI/SARI surveillance bulletin

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Sweden

Total population:

10,353,441

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Virological		Virological					Clinical.	Virological.
Respiratory pathogens tested for	Influenza & SARS-CoV-2		SARS-CoV-2 only					Influenza	
Reporting period	Week 40-20. During the pandemic the surveillance did run summer 2020		Week 40-20. During the pandemic the surveillance did run summer 2020					Year-round	Year-round
Population covered (%)	8.0%		8.0%					100.0% (with 25% underreporting).	100.0%
Type of health facilities/hospitals	General practice, infectious disease and pediatric clinics		General practice, infectious disease and pediatric clinics					Intensive care unit	Emergency care, hospitals, infectious disease and pediatric clinics, primary care facilities

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/hospitals	72 facilities during the 2020-2021 season		72 facilities during the 2020-2021 season					80 intensive care units (aug 2021)	Circa 28 microbiological laboratories (these also report analyses performed at other hospitals without microbiological laboratories)
Number of primary care practitioners									
Case definition used	ECDC		ECDC, WHO					Laboratory-confirmed influenza (and covid-19, separately)	Laboratory-confirmed influenza cases. Patients presenting with ILI - similar to ECDC ILI case definition
Description of national case definition									
Year introduced	2006							2013	1993, changed in 2013.
Epidemic threshold	No		No					No	Yes
Sampling strategy methodology	Convenience sampling		Convenience sampling						

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	Up to 5 specimens collected per week per site		Up to 5 specimens collected per week per site					No sampling strategy. Samples are collected based on decision of the clinician	No sampling strategy. Samples are collected based on decision of the clinician

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.folkhalsomyndigheten.se/folkhalsorapportering-statistik/statistikdatabaser-och-visualisering/sjukdomsstatistik/influensa-veckorapporter/aktuell-influensarapport/	https://www.folkhalsomyndigheten.se/folkhalsorapportering-statistik/statistik-a-o/sjukdomsstatistik/covid-19-veckorapporter/senaste-covidrapporten/	https://www.folkhalsomyndigheten.se/folkhalsorapportering-statistik/statistik-a-o/sjukdomsstatistik/rsv-veckorapporter/senaste-rsv-rapporten/

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Switzerland

Total population:

8,379,477

Income group:

high

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological								Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2								
Reporting period	Clinical: all year round. Virological: week 40-16 (exceptionally in 2021 all year round)								Year-round
Population covered (%)	1.8%.								100.0%
Type of health facilities/hospitals	General practice, pediatrician								Laboratories
Number of health facilities/hospitals	150-200 facilities								<200 laboratories

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	WHO <2011								Laboratory-confirmed influenza.
Description of national case definition									
Year introduced	1987								1988
Epidemic threshold	Yes								No
Sampling strategy methodology	Convenience sampling								
Sampling strategy	About 40% of the sentinel facilities collect specimens. They sample all ILI patients when the incidence is below the epidemic threshold, and every 4th-5th ILI patient when the incidence is above the epidemic threshold								Mandatory notification of influenza detection. Consequently, no standard sampling strategy

Respiratory viruses surveillance profiles

Publicly available national bulletins	Influenza	COVID-19	RSV
	<p>We have a weekly report on ILI, which is published in the weeks 41 to 17 (for the Weeks 40 - 16 during season):</p> <p>German: https://www.bag.admin.ch/bag/de/home/krankheit/en/ausbrueche-epidemien-pandemien/aktuelle-ausbrueche-epidemien/saisonale-grippe---lagebericht-schweiz.html</p> <p>French: https://www.bag.admin.ch/bag/fr/home/krankheiten/ausbrueche-epidemien-pandemien/aktuelle-ausbrueche-epidemien/saisonale-grippe---lagebericht-schweiz.html</p> <p>TM: https://www.hug-ge.ch/laboratoire-virologie/centre-national-reference-influenza-cnri (for general page where you can choose language) https://www.bag.admin.ch/bag/de/home/krankheit/en/ausbrueche-epidemien-pandemien/aktuelle-ausbrueche-epidemien/saisonale-grippe---lagebericht-schweiz.html</p>	<p>includes data from mandatory COVID-19 notification but not from sentinel-surveillance: https://www.covid19.admin.ch/de/overview</p>	<p>No</p>

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Tajikistan

Total population:

8,931,200

Income group:

lower middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Clinical	Integrated clinical and virological	Clinical	Integrated clinical and virological		Integrated clinical and virological		
Respiratory pathogens tested for									
Reporting period	W40-W20	W40-W20	W40-W20	W40-W20	W40-W20		W40-W20		
Population covered (%)	0.4%	100.0%	0.4%	100.0%	10.3%		10.7%		
Type of health facilities/hospitals	Health center	Health centers (PHC) and hospitals		Health centers (PHC) and hospitals	Hospital		National influenza center		
Number of health facilities/hospitals	1 facility	3085 facilities		3085 facilities	5 hospitals		1		

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of primary care practitioners									
Case definition used	WHO 2014	National	ECDC, WHO	National	WHO 2014				
Description of national case definition		Cases are diagnosed primarily on the basis of clinical signs, therefore the system provides for the surveillance of both viral and bacterial acute respiratory diseases		Cases are diagnosed primarily on the basis of clinical signs, therefore the system provides for the surveillance of both viral and bacterial acute respiratory diseases					
Year introduced	2016		2016		2016		2016		
Epidemic threshold	No	No	No	No	No		No		
Sampling strategy methodology	Systematic sampling		Systematic sampling		Systematic sampling		Systematic sampling		

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	Operational Guidelines for Sentinel Influenza Surveillance in the Republic of Tajikistan	There is no sampling strategy	Operational Guidelines for Sentinel Influenza Surveillance in the Republic of Tajikistan	No sampling strategy	All patients meeting the SARI case definition (WHO, 2014) who are admitted through the emergency department on Monday, Tuesday and Wednesday. Samples are taken from patients in all age groups. The sampling procedure does not differ between the start and the peak of the season. All cases are included in the sampling strategy.		Operational Guidelines for Sentinel Influenza Surveillance in the Republic of Tajikistan		

Publicly available national bulletins	Influenza	COVID-19	RSV
	-	https://covid.tj/	No

Respiratory viruses surveillance profiles

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Turkey

Total population:

83, 384, 680

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological				Integrated clinical and virological				Virological
Respiratory pathogens tested for									
Reporting period	Week 40-20				Week 40-20				Week 40-20
Population covered (%)	1.0%				Not available				Not available
Type of health facilities/hospitals	Family physician centers				Intensive care unit, emergency department, internal disease department, pediatric disease department, infectious disease department, pulmonary disease department				All hospitals

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/ hospitals	220 facilities				9 hospitals				The number of health facilities is not constant. Samples are collected from any hospital in the country
Number of primary care practitioners									
Case definition used	WHO <2011				WHO 2014				WHO 2014
Description of national case definition					WHO 2014; age-specific case definitions				
Year introduced	2004				2016				2004
Epidemic threshold	No				No				No
Sampling strategy methodology	Convenience sampling				All cases				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	At least one sample for each week randomly chosen until Friday showing ILI case definition, including all age groups, by 220 family doctors				Samples are collected from all patients that meet the SARI case definition, all age-groups included, in 9 hospital				No sampling strategy

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://grip.gov.tr/tr/haftalik-influenza-raporu	-	-

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Turkmenistan

Total population:

5,438,670

Income group:

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological			Integrated clinical and virological	Integrated clinical and virological			Integrated clinical and virological	
Respiratory pathogens tested for									
Reporting period	From W40 to W20 of the next year			Year-round	Year-round			Year-round	
Population covered (%)				100.0%	N/A			100.0%	
Type of health facilities/hospitals	Polyclinic			Polyclinics and hospitals	Hospital			Polyclinics and hospitals	

Respiratory viruses surveillance profiles

Number of health facilities/hospitals	1 facility			All	1 hospital			All	
Number of primary care practitioners									
Case definition used	WHO 2014			ECDC, WHO	WHO 2014			National	
Description of national case definition	Standard case definition for influenza-like illness (ILI): Acute respiratory infection with onset within the previous 10 days AND a measured temperature of ≥ 38.0 °C AND a cough. Patients with ILI are a subgroup of patients clinically diagnosed with acute respiratory infection (ARI), i.e. ILI is equated to ARI with fever and cough			Acute onset of symptoms AND at least one of the following respiratory symptoms: cough; sore throat (pharyngitis); shortness of breath; coryza AND a clinician's judgement that the illness is due to an infection. ARI may or may not be accompanied by a fever. ARI may include the following conditions: 1. Acute nasopharyngitis, coryza, including rhinitis (acute), nasal catarrh 2. Acute	Standard case definition for Severe Acute Respiratory Infection (SARI): Acute respiratory infection requiring hospitalization with onset within the previous 10 days, history of fever or measured temperature ≥ 38.0 °C AND cough. SARI cases are inpatients hospitalized with an overnight stay (full hospitalization). Patients discharged on the same day do not meet the case definition. If a patient with SARI			Influenza is an acute viral infectious disease with airborne transmission of the pathogen, characterized by painful bouts of fever, high temperature, headache, muscle pain, severe loss of strength, and usually a productive or nonproductive cough, as well as other respiratory symptoms during 10 days. ARI, acute respiratory infection, is characterized by acute onset and at least one of the following four respiratory	

Respiratory viruses surveillance profiles

				nasopharyngitis and acute rhinopharyngitis 3. Acute sinusitis 4. Acute pharyngitis 5. Acute tonsillitis 6. Acute laryngitis and tracheitis 7. Acute obstructive laryngitis, epiglottitis and bronchitis 8. Acute upper respiratory infections of multiple and unspecified sites 9. Pneumonia of viral and bacterial origin, as well as secondary pneumonia due to underlying diseases such as chronic heart failure	seeks care from a hospital but refuses hospitalization, they cannot be considered a SARI case			symptoms: • cough; • sore throat (pharyngitis); • shortness of breath; • coryza; and a • clinician's judgement that the illness is due to an infection; • the presence or absence of fever	
Year introduced	2021			2019	2021			2019	
Epidemic threshold	No			No	No			No	
Sampling strategy methodology	Systematic sampling			Convenience sampling	Systematic sampling			Convenience sampling	

Respiratory viruses surveillance profiles

Sampling strategy	<ul style="list-style-type: none"> • Every day, the first two to three patients meeting the ILI case definition should be sent to the procedure room for a smear; there should be no more than 20 samples per week from one sentinel site. All age groups are included; procedures are not standard throughout the season; only individuals who meet the standard sentinel ILI case definition are included 			<p>Recommended risk groups for laboratory sampling for suspected influenza/ARI: • Pregnant women; • Persons living in long-term care facilities (homes for the elderly and disabled, boarding schools, etc.); • Persons undergoing inpatient treatment:</p> <ul style="list-style-type: none"> > Children aged 6 months to 5 years with a severe form of ARI/influenza; > Persons with chronic heart or lung disease, metabolic or renal disease, chronic liver damage, chronic neurological disorders, or immunodeficiency states with severe ARI/influenza; > Elderly people (over 65 years old) with severe ARI/influenza; > Healthcare workers; 	<p>SARI patients are encouraged to submit a sample for influenza testing Monday through Sunday, with a maximum of 20 samples per week</p>		<p>Recommended risk groups for laboratory sampling for suspected influenza/ARI: • Pregnant women; • Persons living in long-term care facilities (homes for the elderly and disabled, boarding schools, etc.); • Persons undergoing inpatient treatment:</p> <ul style="list-style-type: none"> > Children aged 6 months to 5 years with a severe form of ARI/influenza; > Persons with chronic heart or lung disease, metabolic or renal disease, chronic liver damage, chronic neurological disorders, or immunodeficiency states with severe ARI/influenza; > Elderly people (over 65 years old) with severe ARI/influenza; > Healthcare workers; > Veterinary workers, farmers,
--------------------------	--	--	--	---	---	--	--

Respiratory viruses surveillance profiles

			<p>> Veterinary workers, farmers, etc., who were in contact (2–14 days prior to the disease) with sick or deceased wild birds, poultry, pigs, as well as workers of zoos and circuses.</p> <p>> Persons who developed an acute respiratory infection of unknown etiology after staying (2–14 days prior to the disease) in a region that is not epidemically safe for new types of influenza.</p> <p>Note: Taking samples for laboratory research is at the discretion of the attending physician</p>			<p>etc., who were in contact (2–14 days prior to the disease) with sick or deceased wild birds, poultry, pigs, as well as workers of zoos and circuses.</p> <p>> Persons who developed an acute respiratory infection of unknown etiology after staying (2–14 days prior to the disease) in a region that is not epidemically safe for new types of influenza.</p> <p>Note: Taking samples for laboratory research is at the discretion of the attending physician</p>	
--	--	--	---	--	--	---	--

Publicly available national bulletins	Influenza	COVID-19	RSV
	No	No	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Ukraine

Total population:

44,624,373

Income group:

lower middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological			Clinical	Integrated clinical and virological				
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2				Influenza, RSV & SARS-CoV-2				
Reporting period	Year-round			W40-W20	Year-round				
Population covered (%)	0.1%			100.0%	6.5%				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Type of health facilities/hospitals	Primary healthcare			Primary healthcare and hospitals	Infectious disease hospitals and multidisciplinary hospitals (intensive care units, pediatric, infectious and pulmonary disease wards).				
Number of health facilities/hospitals	7 PHC facilities			All PHC facilities and all hospitals in the country	11 hospitals				
Number of primary care practitioners									
Case definition used	WHO 2014			No case definition used	WHO 2014				
Description of national case definition									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Year introduced	2016			2016					
Epidemic threshold	No			Yes	No				
Sampling strategy methodology	Convenience sampling				Convenience sampling				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	Each physician participating in the sentinel surveillance system collects samples from no more than the first 3 patients meeting the ILI case definition per week. Sampling covers all age groups. All patients are included in the sampling strategy. The sampling procedure does not differ between the start and the peak of the season			Sampling is done without a specific strategy. Samples are taken at the discretion of the physician for diagnostic purposes but not for surveillance purposes. No laboratory testing of samples is carried out in the ARVI routine surveillance system	Each sentinel hospital collects samples from no more than 5 patients meeting the SARI case definition per week. Sampling covers all age groups. All patients are included in the sampling strategy. The sampling procedure does not differ between the start and the peak of the season				

Influenza	COVID-19	RSV
------------------	-----------------	------------

Respiratory viruses surveillance profiles

<p>Publicly available national bulletins</p>	<p>https://phc.org.ua/kontrol-zakhvoryuvan/inshi-infekciyni-zakhvoryuvannya/zakhvoryuvanist-na-grip-ta-grvi-v-ukraini</p>	<p>https://phc.org.ua/kontrol-zakhvoryuvan/inshi-infekciyni-zakhvoryuvannya/zakhvoryuvanist-na-grip-ta-grvi-v-ukraini</p> <p>https://phc.org.ua/kontrol-zakhvoryuvan/inshi-infekciyni-zakhvoryuvannya/koronavirusna-infekciya-covid-19</p> <p>https://covid19.gov.ua/</p> <p>https://moz.gov.ua/article/news/operativna-informacija-pro-poshirennja-koronavirusnoi-infekcii-2019-cov19</p> <p>https://moz.gov.ua/koronavirus-2019-ncov</p> <p>https://www.nas.gov.ua/UA/Activity/covid/Pages/wg.aspx</p>	<p>The weekly newsletter "Influenza and ARVI in Ukraine" (https://phc.org.ua/kontrol-zakhvoryuvan/inshi-infekciyni-zakhvoryuvannya/zakhvoryuvanist-na-grip-ta-grvi-v-ukraini) includes data on the results of testing sentinel samples for RSV, among other things. No separate national bulletin on RSV is issued.</p>
---	--	---	--

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Uzbekistan

Total population:

33,255,538

Income group:

lower middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological		Clinical		Integrated clinical and virological				
Respiratory pathogens tested for									
Reporting period	From W40 of the current year to W20 of the next year		From W40 of the current year to W20 of the next year		From W40 of the current year to W20 of the next year				
Population covered (%)	0.16% of the country's population		0.16% of the country's population		0.03% of the country's population				
Type of health facilities/hospitals	General practice, polyclinic		General practice, polyclinic		Hospital, maternity hospital				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/hospitals	1 facility		1 facility		3 hospitals				
Number of primary care practitioners	5 sites, 5 doctors								
Case definition used	WHO 2014		WHO 2014		WHO 2014				
Description of national case definition									
Year introduced	2016		2016		2016				
Epidemic threshold	Yes		No						
Sampling strategy methodology	Convenience sampling				Systematic sampling				

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	Five physicians have been appointed, each of whom takes a smear on the first day of the week from patients who have been diagnosed with ILI in accordance with the ILI case definition				A swab is taken from all patients hospitalized on the first day of the week and meeting the SARI case definition				

Publicly available national bulletins	Influenza	COVID-19	RSV
	The national influenza bulletin is published at https://ssv.uz/uz on a weekly basis	No	The national influenza bulletin contains laboratory data on RSV and is published at https://ssv.uz/uz weekly

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

United Kingdom of Great Britain and Northern Ireland

Total population:

66,796,807

Income group:

high

England

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological				Integrated clinical and virological			Integrated clinical and virological	Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2				Influenza, RSV & SARS-CoV-2			Influenza	
Reporting period	Reported via TESSy week 40 to 20 each season				Usually wk. 40 to wk. 20. Currently year round			Reported via TESSy week 40 to 20 each season	Reported via TESSy week 40 to 20 each season
Population covered (%)					20-25%			100.00%	100.00%
Type of health facilities/hospitals	General practice				Acute hospitals			Intensive care units and high dependency units	PHE, NHS and private microbiology laboratories.

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/hospitals	Over 1000 contribute ILI data. Fewer practices contribute to the virological surveillance scheme				Approximately 25-30 hospitals			141 hospitals	>200 laboratories
Number of primary care practitioners									
Case definition used	WHO 2011				National			National	

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**	
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza			
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal		
Description of national case definition					Confirmed influenza, RSV and/or SARS-CoV-2, , suspected or excluded COVID-19, patients not tested for COVID-19 and other causes of ARI. We accept a clinical working diagnosis of ARI				A case is defined as: Any individual admitted to hospital ICU/HDU AND has a laboratory confirmed influenza A (including H1, H3 or novel) or influenza B infection. Symptoms: History of or observed fever (≥ 38 degrees centigrade) with onset of previous 10 days AND at least two of: cough, sore throat, headache, rhinorrhea, limb or joint pain, vomiting, diarrhea, increased respiratory rate or poor feeding)	
Year introduced	1964								2010	
Epidemic threshold	Yes.				Yes				Yes	No

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy methodology	Convenience sampling				All cases			All cases	Convenience sampling
Sampling strategy	At the start of the season 2-3 ILI cases are swabbed per week. At the peak of the season max. 20 patients are swabbed per week							All cases should be sampled	

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.gov.uk/government/collections/weekly-national-flu-reports	https://www.gov.uk/government/collections/weekly-national-flu-reports	https://www.gov.uk/government/collections/weekly-national-flu-reports

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Northern Ireland

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Virological	Clinical						Virological	Virological
Respiratory pathogens tested for	Influenza & RSV	Influenza & RSV							Influenza, RSV & SARS-CoV-2
Reporting period	Week 40-20	Year-round						Year-round for universal surveillance (reported to TESSy); week 40-20 for ICU-based surveillance	Year-round
Population covered (%)	11.0%	98.0%						100.0%	Influenza/RSV: 100% COVID-19: Universal symptoms 100%, GP Sentinel scheme 11%

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Type of health facilities/hospitals	General practice	General practice						All hospitals for universal surveillance; all ICU/HDU units for ICU surveillance	Influenza/RSV: All facilities. COVID-19: All hospitals for Pillar 1 (HSC laboratory testing) surveillance; all ICU/HDU units for ICU surveillance; 36 GP practices involved in the COVID Sentinel GP scheme
Number of health facilities/hospitals	36 facilities	321 facilities						All hospitals	Influenza/RSV: All facilities. COVID-19: 36 Sentinel GP practices, and all hospitals
Number of primary care practitioners									
Case definition used	National	National						Laboratory-confirmed influenza	Influenza: Laboratory-confirmed influenza. COVID-19: A Confirmed case- individual with clinical symptoms and a positive SARS-CoV2 specimen result

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition	A disabling acute respiratory illness accompanied by severe fever and myalgia	All cases have symptoms consistent with clinical 'flu', 'flu-like illness' and acute respiratory illness (read codes) are automatically extracted from GP practices on a daily basis							COVID-19- Individuals with • new continuous cough OR • high temperature OR • a loss of, or change in, normal sense of smell (anosmia) or taste (ageusia)
Year introduced	2001	2009						2011	Influenza: 2011. COVID-19: 2020
Epidemic threshold	No	Yes						No	No
Sampling strategy methodology	Convenience sampling	All cases						All cases	All cases

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	Note no virological samples collected in 2020/2021. In 2019/20: up to a maximum of 5 patients per week that meet the case definition. Swabbing should be undertaken regardless of vaccination status and within seven days of onset of symptoms	No virological samples collected						All cases should be sampled	All cases should be sampled

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.publichealth.hscni.net/publications/influenza-weekly-surveillance-bulletin-northern-ireland-202021		https://www.publichealth.hscni.net/publications/coronavirus-bulletin

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Scotland

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Clinical		Clinical		Integrated clinical and virological			Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2					Influenza, RSV & SARS-CoV-2			
Reporting period	Year-round	Year-round		Year-round		Year-round			Year-round
Population covered (%)	100.0% - see comments	100.0%		100.0%		100.00%			100.0%
Type of health facilities/hospitals	Temporary Community Assessment centres (CAC) set up for mild/moderate symptomatic patients as well as GP red pathways	General practice		General practice		All hospitals			All hospital wards
Number of health facilities/hospitals	26 CACs initially with some stepping down now over time with the return of GP practices	930 facilities		930 facilities		277 hospitals			274 hospitals
Number of primary care practitioners									
Case definition used	National	National		National		WHO 2014			National

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Description of national case definition	Early definitions included: Any patient presenting with ILI OR ARI OR change in smell/taste AND seen in the CAC AND swabbed within 7 days of onset of symptoms. Case divisions were later replaced with recruitment guidance	Aggregated automated GP extracts on ILI and ARI consultations based on READ codes. Definition of ILI and ARI are based on clinical discretion		Aggregated automated GP extracts on ILI and ARI consultations based on READ codes. Definition of ILI and ARI are based on clinical discretion		A patient discharged from a Scottish hospital who has one or more of the following ICD-10 codes: J09-22, J80, U07.1 - U07.2, J04 or B97.4			Based on clinical discretion of healthcare professional
Year introduced	2000 Modified 2020 for COVID requirements	2009		2009		2020			2009
Epidemic threshold	No	Yes		Yes		No			No
Sampling strategy methodology	All cases					All cases			All cases

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Sampling strategy	All patients with mild to moderate symptoms who attend the CAC. Recruitment guidance included: Every patient, with symptoms, that will have a swab taken to test for SARS-COV-2 (and later on Flu/RSV) for diagnostic purposes, who are given self-care advice to manage their condition in the community, without hospital admission	No samples collected		No samples collected					

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://publichealthscotland.scot/publications/weekly-national-seasonal-respiratory-report/	https://publichealthscotland.scot/publications/covid-19-statistical-report/covid-19-statistical-report-4-august-2021/	https://publichealthscotland.scot/publications/weekly-national-seasonal-respiratory-report/

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Wales

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Clinical	Virological	Clinical	Integrated clinical and virological			Virological	Virological
Respiratory pathogens tested for	Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2		Influenza, RSV & SARS-CoV-2			Influenza	
Reporting period	Year-round.	During periods of heightened activity	Year-round.	During periods of heightened activity	Year-round.				Year-round
Population covered (%)	11.8%	100.0%	11.8%	100.0%	Currently approx. 9%, but will increase when new sites come online			100.0%	100.0%
Type of health facilities/hospitals	General practice	General practice	General practice	General practice	Hospital ED			All wards	Hospitals; non-sentinel general practices
Number of health facilities/hospitals	42 facilities	420 facilities	42 facilities	420 facilities	2 sites, with further expansion underway			19 hospitals	19 hospitals and ad-hoc non-sentinel general practices
Number of primary care practitioners									

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Case definition used	National	National	National	National	National			Laboratory-confirmed influenza in patients tested with respiratory symptoms.	Laboratory-confirmed influenza in patients tested with respiratory symptoms.
Description of national case definition	GP diagnosed ILI, based on clinicians indication on form	GP diagnosed ILI, based on Read/ SNOMED codes	GP diagnosed ARI, based on clinicians indication on form	GP diagnosed ARI, based on Read/ SNOMED codes	Symptomatic presentations in ED where there is an intention to admit. Plan to move to agreed ECDC SARI-Net definitions				
Year introduced	1987	2009	1987	2020	2020			2005	2005
Epidemic threshold	Yes	No	No	No	No			No	No
Sampling strategy methodology	All cases	All cases	All cases.	All cases	All cases			All cases	All cases

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**	
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza			
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal		
Sampling strategy	Sentinel GPs are asked to swab all diagnosed ILI cases (around the peak of an epidemic this may be limited to the first 5 patients diagnosed in each practice per week)	All clinically diagnosed cases of ILI	Sentinel GPs are asked to swab all diagnosed ARI cases (around the peak of an epidemic this may be limited to the first 5 patients diagnosed in each practice per week)	All clinically diagnosed cases of ARI	All symptomatic presentations in ED where there is an intention to admit. At times of high pressure in ED, completeness of reporting may decrease. We are setting in place a means to estimate completeness of reporting				All confirmed cases of influenza in hospital patients for whom respiratory screen tests are requested	All confirmed cases of influenza in hospital patients (with a very small proportion of non-sentinel GP patients) for whom respiratory screen tests are requested

Publicly available national bulletins	Influenza	COVID-19	RSV
	https://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=34338	https://public.tableau.com/app/profile/public.health.wales.health.protection/viz/RapidCOVID-19virology-Public/Headlinesummary	Included in the weekly influenza bulletin

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.

Respiratory viruses surveillance profiles

Kosovo²

Total population: ...

Income group: ...

upper middle

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Surveillance system	Integrated clinical and virological	Clinical	Integrated clinical and virological	Clinical	Integrated clinical and virological	Clinical	Integrated clinical and virological	Integrated clinical and virological	
Respiratory pathogens tested for	Influenza & SARS-CoV-2			Influenza & SARS-CoV-2	Influenza & SARS-CoV-2				
Reporting period	Week 40-20			Week 40-20					
Population covered (%)	48.4%	Whole population	48.4%	Whole population	48.4%	Whole population	48.4%	Whole population	
Type of health facilities/hospitals	General practice, pediatric practice, infectious disease, lung disease (all health care levels)			All health care levels	Pediatric practice, intensive care unit, infectious diseases, lung disease (secondary and tertiary health care levels)				

² All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Respiratory viruses surveillance profiles

System characteristic	Primary care				Hospital*				Other**
	Influenza-like illness (ILI)		Acute respiratory infection (ARI)		Severe acute respiratory infection (SARI)		Laboratory-confirmed influenza		
	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	Sentinel	Universal	
Number of health facilities/ hospitals	5 facilities			34 facilities	5 facilities				
Number of primary care practitioners									
Case definition used	WHO 2014			ECDC, WHO	WHO 2014				
Description of case definition	No specific case definition								
Year introduced	2012			2017/2018	2014				
Epidemic threshold	Yes			No	No				
Sampling strategy methodology	Systematic sampling			Systematic sampling	All cases				
Sampling strategy	In Pristina and Prizren. Samples are collected twice per week on Monday and Thursday			In Pristina and Prizren. Samples are collected twice per week on Monday and Thursday	All SARI cases are sampled at all times (24 hrs./7 days a week)				

Publicly available bulletins	Influenza	COVID-19	RSV
	No link available	There is regular weekly analysis of epidemiological situation, but not published	No

See [Notes](#) for more information on influenza surveillance systems and a description of WHO and ECDC case definitions.