

# FluCov-Bulletin – January 2025

FluCov project: combining data from around the world to better understand the co-circulation of influenza and COVID-19

## Commentary

#### Contents

The FluCov Bulletin offers a summary starting from January 2019, detailing the count of confirmed influenza and SARS-CoV-2 detections, along with positivity rates of tested specimens, across 25 countries globally (see page 3).

#### Results

On a global level, **influenza** activity peaked in January, primarily due to rising activity in the Northern Hemisphere (see Figure 1). The following country patterns were observed for **influenza**:

- In the <u>Northern Hemisphere</u>, influenza activity continued to increase in North America with influenza A (not subtyped) as the predominant virus type in the **United States** and **Canada**, and influenza A(H3N2) in **Mexico**.
- Increased influenza activity was also reported in the European countries covered by the bulletin: United Kingdom, the Netherlands, Poland, France (driven by influenza A (not subtyped), followed by influenza B in France), Italy (driven by a mix of influenza A(H1N1)pdm09, A(H3N2), and B/Victoria), Germany (influenza B/Victoria), and Spain (influenza B, lineage not determined).
- In **China** and **South Korea**, **influenza** activity increased, although a peak in cases and percentage positive seems to have been reached in late January. The predominantly circulating viruses were **influenza** A(H1N1)pdm09 in **China** and a mix of A(H1N1)pdm09 and A(H3N2) in **South Korea**.
- Influenza activity remained stable in India and Vietnam and increased slightly in Thailand.
- Influenza activity increased in Israel (mainly influenza B, lineage not determined) and Egypt (mainly influenza A(H3N2)).
- In the <u>Southern Hemisphere</u>, influenza activity decreased or remained stable at low levels in Argentina, Brazil, Chile, South Africa, the Philippines, and Australia.
- No update on influenza activity was available for New Zealand in January.

Globally, **SARS-CoV-2** detections were low during January. The following country patterns were observed for **SARS-CoV-2**:

- An increase in SARS-CoV-2 activity was observed in Thailand. A slight increase was also observed in the United States [1]
- SARS-CoV-2 activity decreased in Argentina, Chile, the Netherlands, Poland, and the United Kingdom. Activity also decreased in Canada (week 50) [2].
- In Brazil, SARS-CoV-2 activity stabilized at intermediate levels [3].
- SARS-CoV-2 activity remained stable at low levels in China, India, Italy, Mexico, New Zealand, and South Africa. SARS-CoV-2 activity also remained at low levels in France, Germany and Spain [4].
- No update on SARS-CoV-2 was available for Australia, Egypt, Israel, Japan, the Philippines, South Korea, and Vietnam.

#### Implications

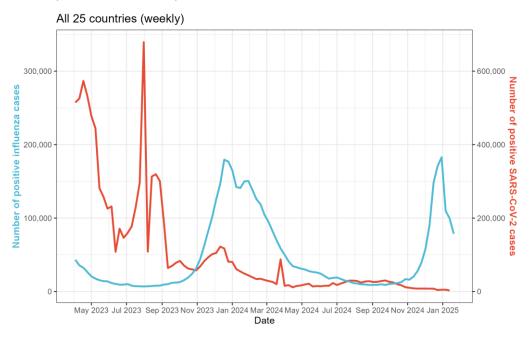
Global influenza activity continued to increase in nearly all Northern Hemisphere countries covered by the Bulletin, and the 2024-25 influenza season is ongoing. In most countries, the timing of the start of the season is similar to the pre-COVID-19 years. This is in line with ECDC reporting that 'trends from the last two years suggest a return to a more regular timing of seasonal influenza' [5].

Hospital admissions in the EU due to influenza are currently at levels observed during previous epidemic peaks, placing pressure on healthcare systems, while **SARS-CoV-2** remains at low levels. EuroMOMO shows increased levels of all-cause mortality, primarily driven by high mortality in the 85 years and above age group in some European countries [4].

Globally, influenza A(H1N1)pdm09 remains the predominant virus type, cocirculating with A(H3N2) in **North America** and A(H3N2) and influenza B (Victoria if lineage determined) in **Europe**. Influenza B was the predominant virus type in a number of countries, including **Spain**, **Germany**, and **Israel**.

The United States and United Kingdom report a good vaccine match for influenza A(H1N1)pdm09 and B/Victoria, and a partial match for A(H3N2) [6,7]. Although the WHO 2024-2025 Northern Hemisphere Vaccine Composition Report recommends a trivalent vaccine to protect against influenza A(H1N1)pdm09, A(H3N2), and B/Victoria lineage viruses [8], excluding B/Yamagata, the single detection of influenza B/Yamagata RNA in week 42 in the **Netherlands** [4] underlines the importance to continue monitoring and determining the lineages of influenza B specimens to assess whether influenza B/Yamagata has truly ceased circulating [9].

In January 2025, **SARS-CoV-2** activity was low in most countries covered by the Bulletin, although according to WHO, activity remained elevated in some countries in South-West Europe, South America, Eastern and Southern Africa, and South Asia [10]. The WHO declared the end of the pandemic in May 2023 [11], countries have adopted diverse monitoring strategies for **SARS-CoV-2**, leading to reduced surveillance and instances of unshared data with the WHO. This variation in approaches impact the completeness of data reported in the FluCov Bulletin.





Disclaimer: Comparisons <u>between countries and seasons</u> of influenza and SARS-CoV-2 detections should be made with care, as national surveillance systems may differ (e.g. surveillance structures and testing intensity) and change over time.

## Monthly plots by country

The plots per country show weekly data for influenza and of SARS-CoV-2 infections from 1 January, 2023 up to 26 January, 2025. For real time figures starting from 1 January 2019, please visit the FluCov Dashboard. This FluCov-Bulletin includes the countries Canada, United States, Mexico, Brazil, Argentina, Chile, United Kingdom, France, Germany, Italy, Netherlands, Spain, Poland, South Africa, Egypt, China, Japan, South Korea, India, Philippines, Thailand, Vietnam, Israel, Australia and New Zealand.

Per country, the first plot displays the number of positive influenza (in blue) and SARS-CoV-2 (in red) detections. An overview of the absolute number of influenza and SARS-CoV-2 detections per country can be found on pages 29-32 of this FluCov-Bulletin (click here). The second plot shows the influenza detections by subtypes/lineages reported to FluNet. The third plot displays the percentage of specimens testing positive for influenza during the current season (in red), the last two seasons, and the average of the two pre-COVID-19 seasons (2017-18 and 2018-19).

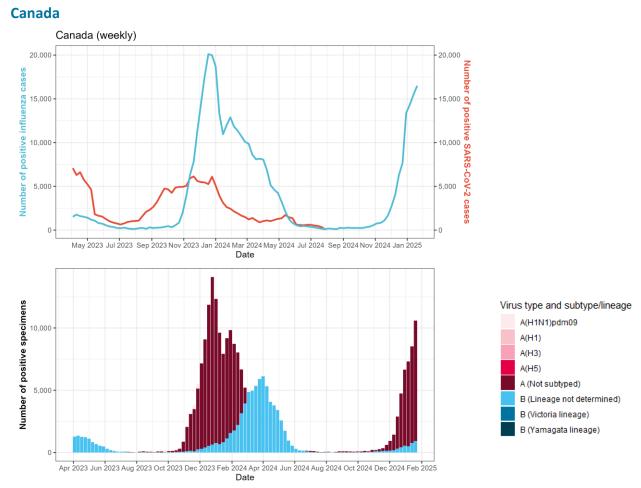
#### The FluCov Dashboard is live!

All Figures and Tables in the FluCov-Bulletin can be accessed (real-time) at: https://www.nivel.nl/en/dossier-epidemiology-respiratory-viruses/flucov-dashboard

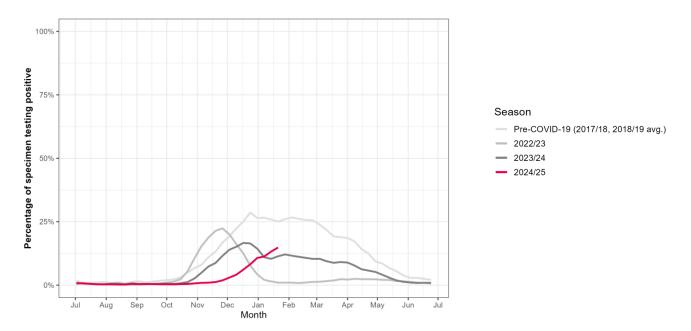
	No. de la constata de la consta
North America	Northern Africa
Canada	Egypt
United States	
	Southern Africa
Central America Caribbean	South Africa
Mexico	
	Eastern Asia
Tropical South America	China
Brazil	Japan
Brazil	South Korea
The second se	South Korea
Temperate South America	
Argentina	Southern Asia
Chile	India
Northern Europe	South East Asia
	South East Asia <b>Philippines</b>
Northern Europe United Kingdom	
United Kingdom	Philippines
United Kingdom Eastern Europe	Philippines Thailand
United Kingdom	Philippines Thailand Vietnam
United Kingdom Eastern Europe Poland	Philippines Thailand Vietnam Western Asia
United Kingdom Eastern Europe Poland South West Europe	Philippines Thailand Vietnam
United Kingdom Eastern Europe Poland South West Europe France	Philippines Thailand Vietnam Western Asia Israel
United Kingdom Eastern Europe Poland South West Europe	Philippines Thailand Vietnam Western Asia Israel Oceania
United Kingdom Eastern Europe Poland South West Europe France	Philippines Thailand Vietnam Western Asia Israel
United Kingdom Eastern Europe Poland South West Europe France Germany	Philippines Thailand Vietnam Western Asia Israel Oceania
United Kingdom Eastern Europe Poland South West Europe France Germany Italy	Philippines Thailand Vietnam Western Asia Israel Oceania Australia

#### **Countries (click to view plot)**

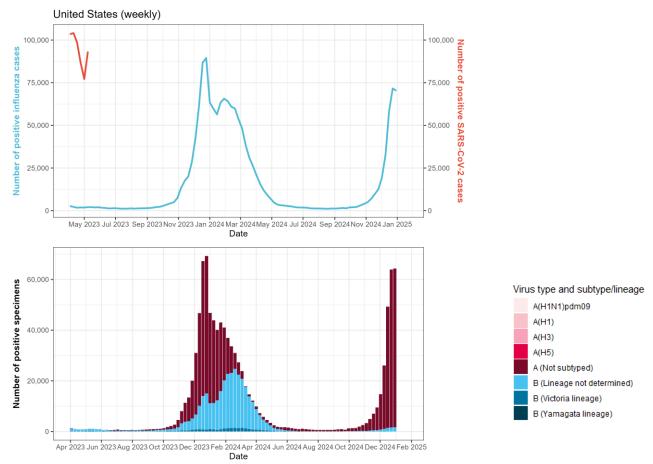
## **North America**



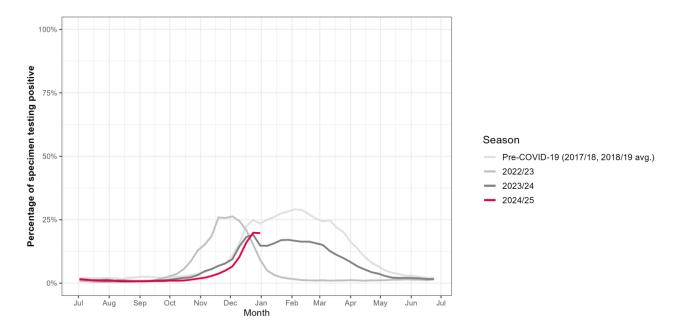
Note: Canada stopped reporting SARS-CoV-2 activity to the WHO since W31/2024

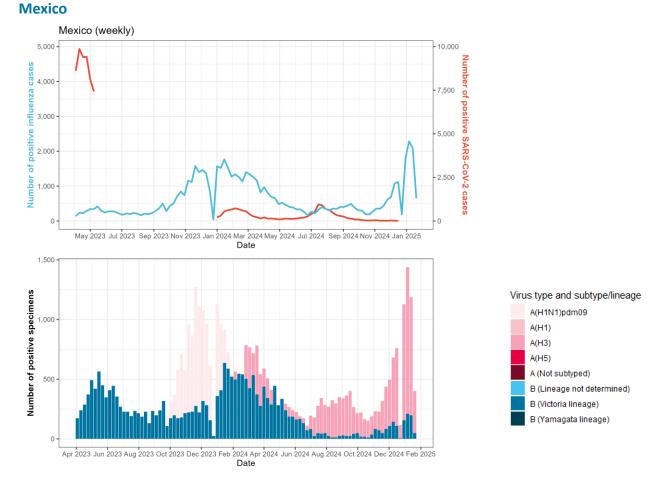


#### **United States**



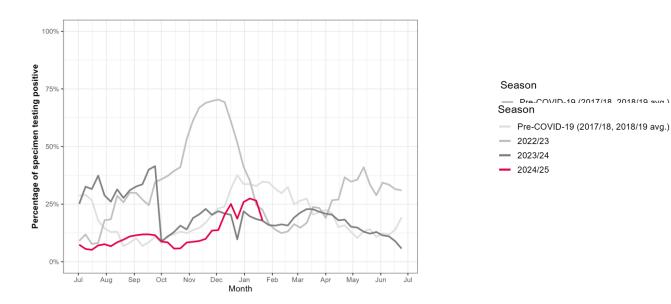
Note: The United States stopped reporting SARS-CoV-2 activity to the WHO since W20/2023

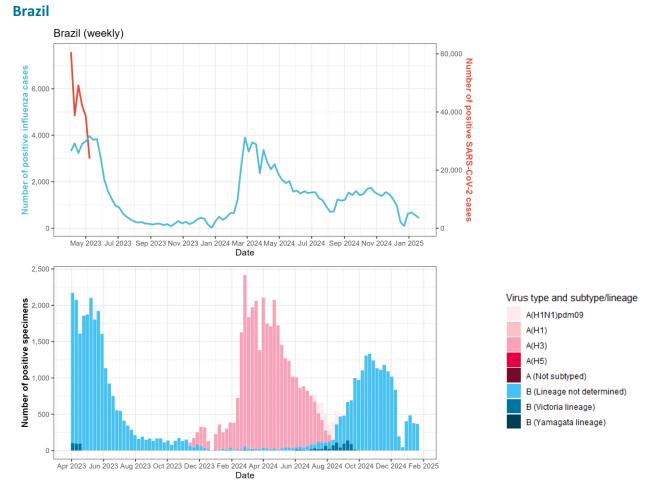




## **Central America Caribbean**

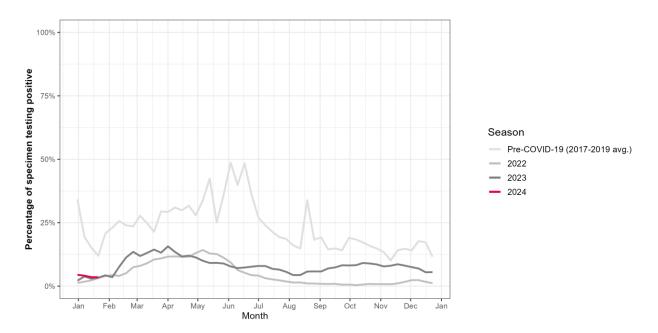
Note: the displayed decrease in influenza cases in week 52 may be due to reduced or delayed testing and reporting during the holiday period.

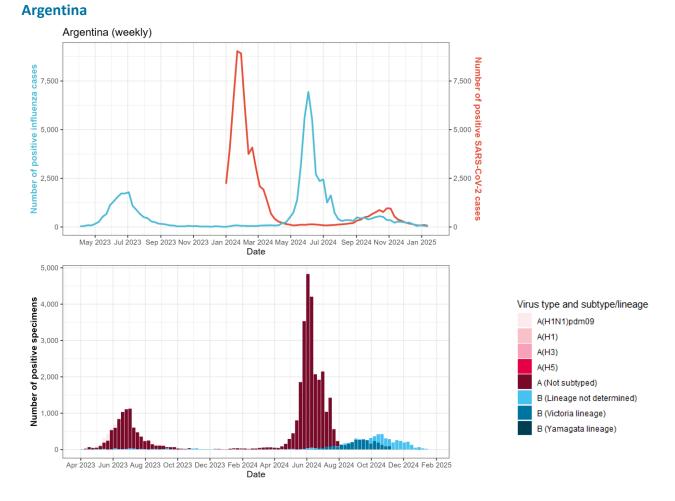




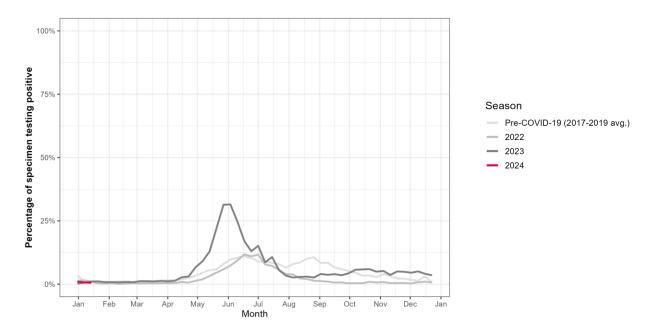
## **Tropical South America**

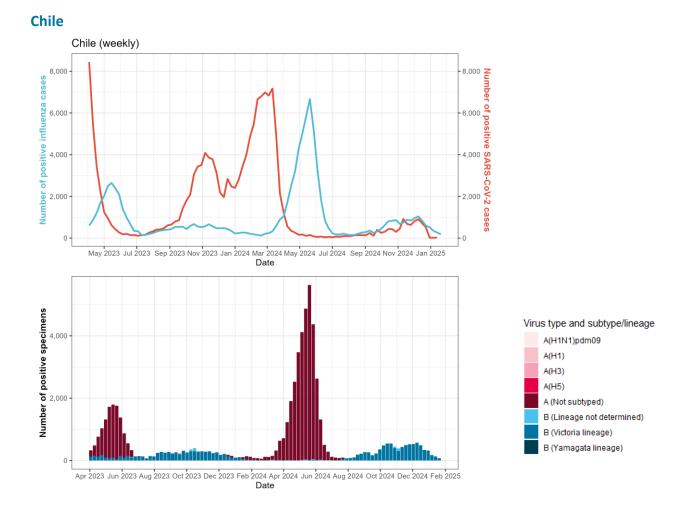
Note: Brazil stopped reporting SARS-CoV-2 activity to the WHO since W19/2023

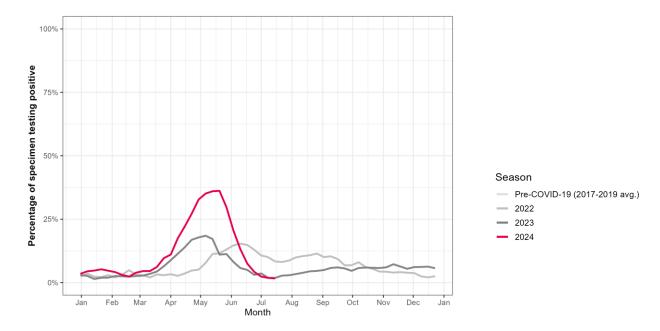




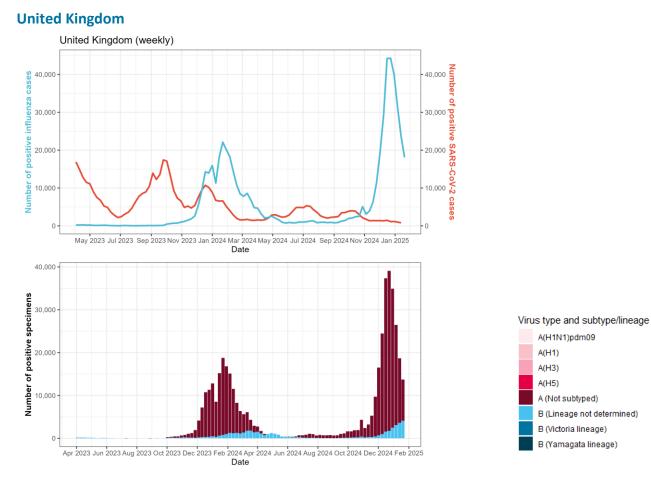
## **Temperate South America**



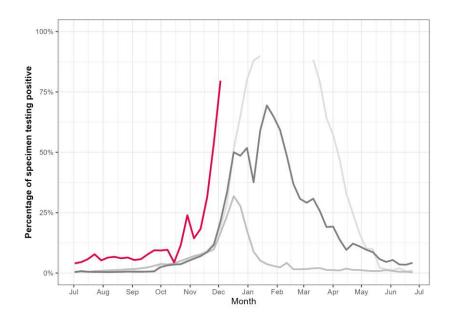








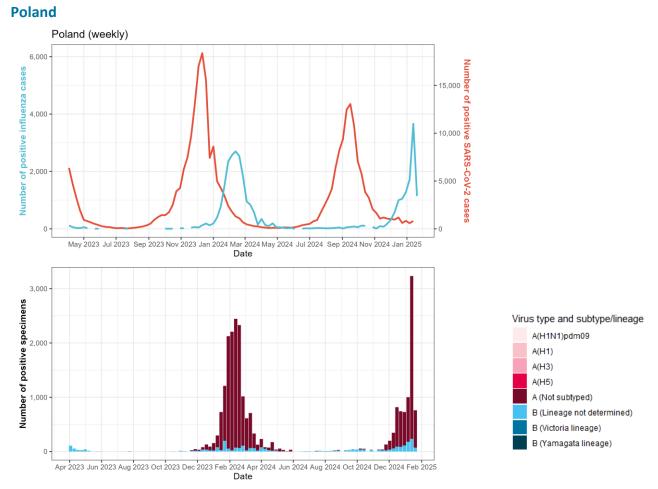
Note: the displayed decrease in influenza cases in week 51 may be due to reduced or delayed testing and reporting during the holiday period.



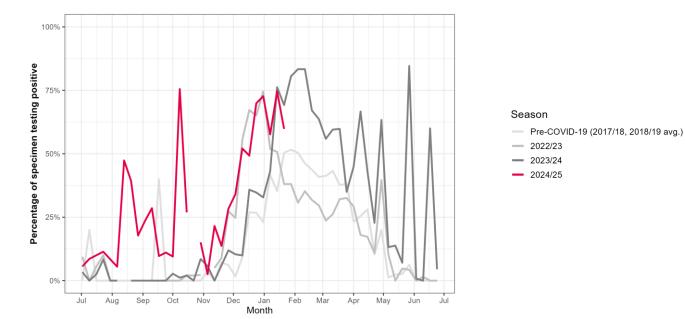


- Pre-COVID-19 (2017/18, 2018/19 avg.)
- 2022/23
- 2023/24
- 2024/25

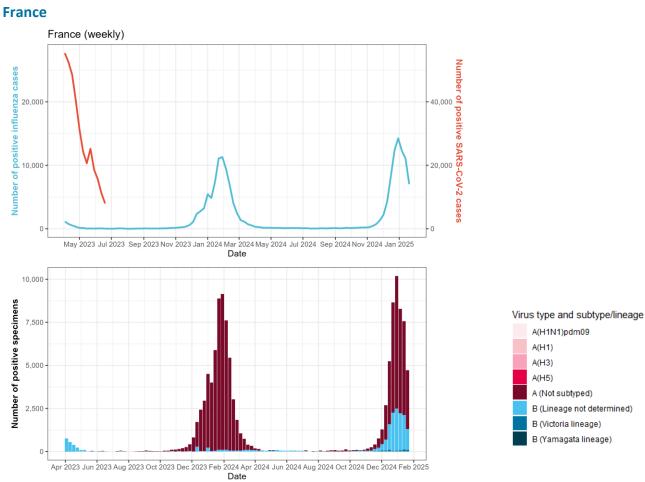
## **Eastern Europe**



#### Percentage of specimens testing positive for influenza in different seasons

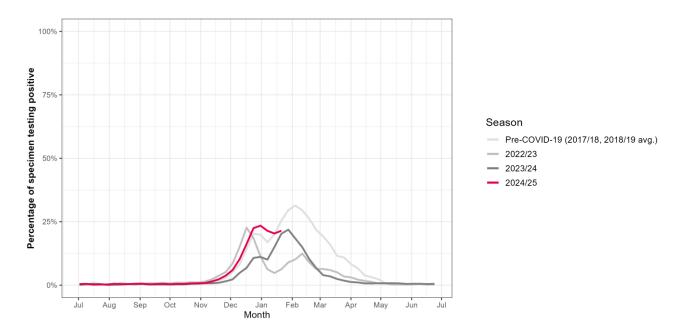


Note: the high variety in percentage positive since April 2024 is likely caused by a low number of tested specimens

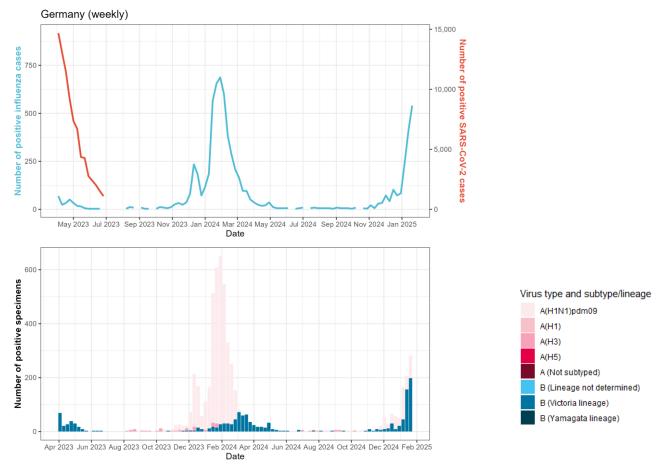


## **South West Europe**

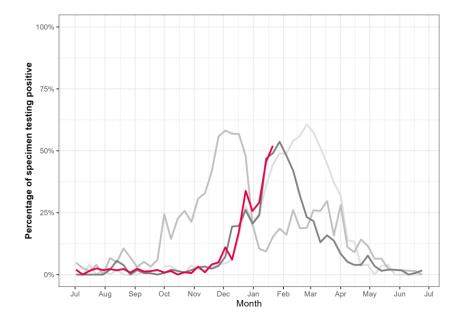
Note: France stopped reporting SARS-CoV-2 activity to the WHO since W26/2023



#### Germany

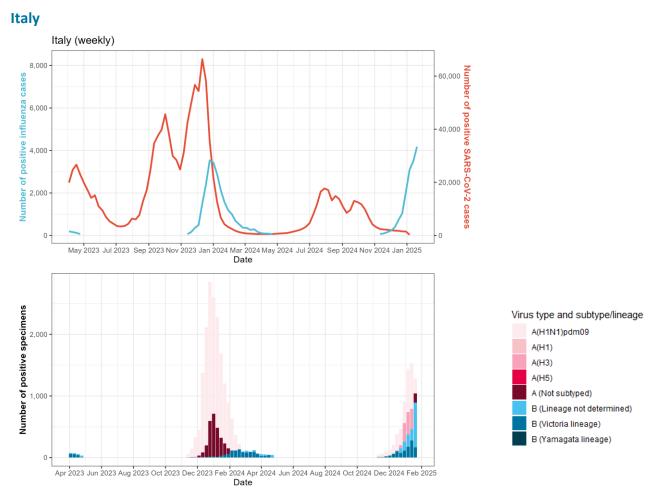


Note: Germany stopped reporting SARS-CoV-2 activity to the WHO since W27/2023





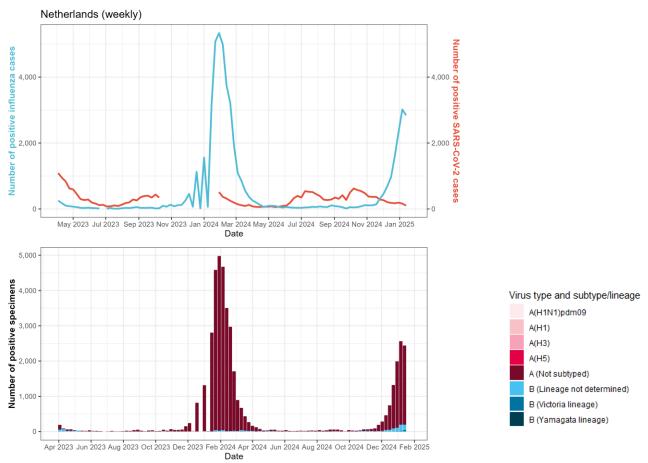
- Pre-COVID-19 (2017/18, 2018/19 avg.)
- \_\_\_\_\_ 2022/23
- 2023/24
- 2024/25



Note: Italy stopped reporting **SARS-CoV-2** activity to the WHO since W34/2024

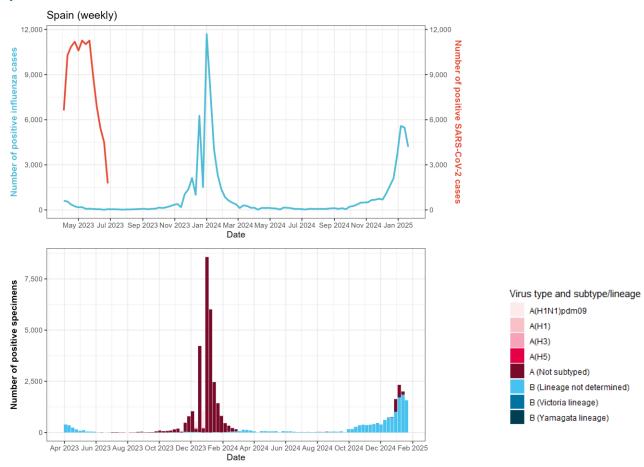
# Percentage of specimens testing positive for influenza in different seasons: data not available

#### Netherlands

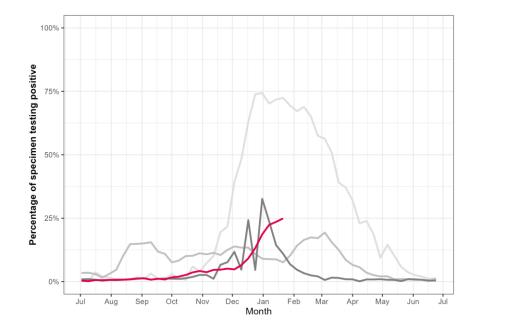


Percentage of specimens testing positive for influenza in different seasons: data not available

#### Spain



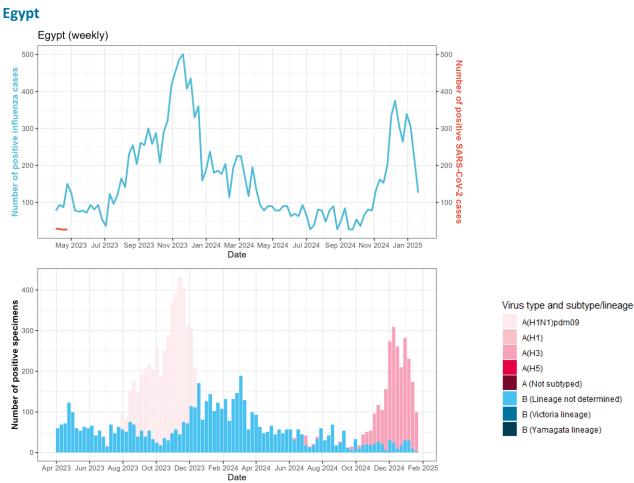
Note: Spain stopped reporting SARS-CoV-2 activity to the WHO since W27/2023



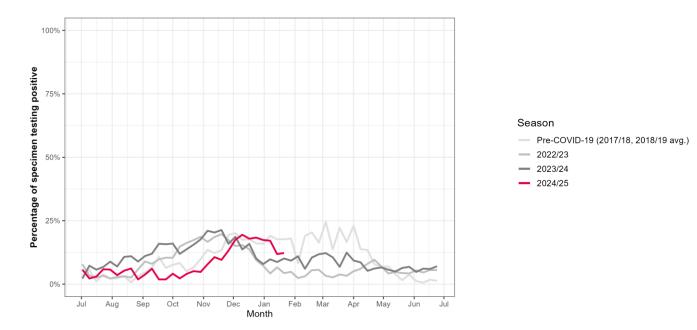


- Pre-COVID-19 (2017/18, 2018/19 avg.)
- 2022/23
- 2023/242024/25

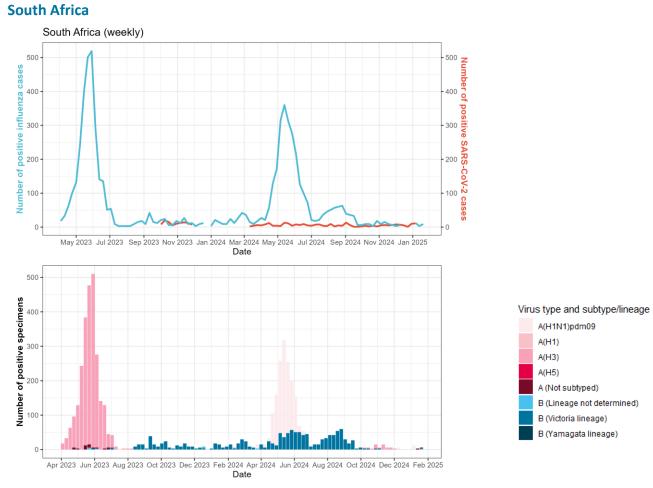
## **Northern Africa**

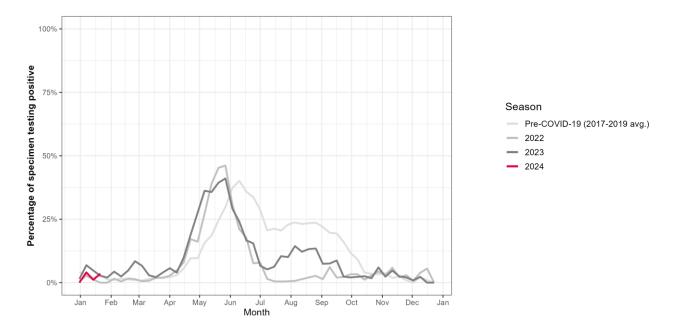


Note: Egypt stopped reporting SARS-CoV-2 activity to the WHO since W18/2023

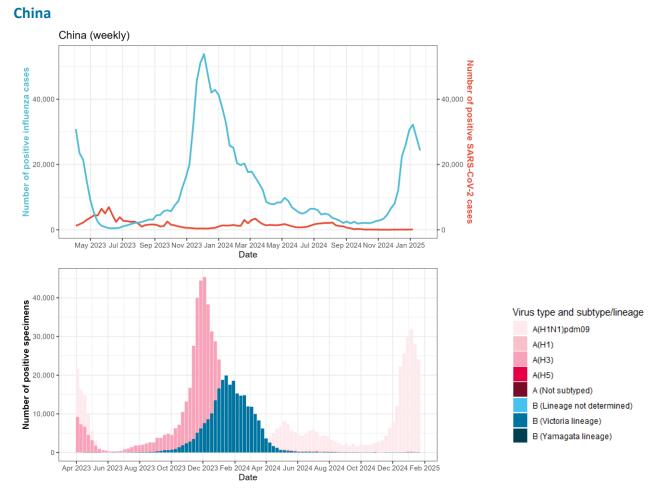


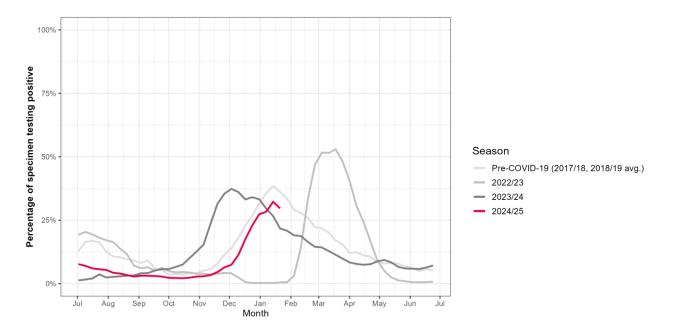




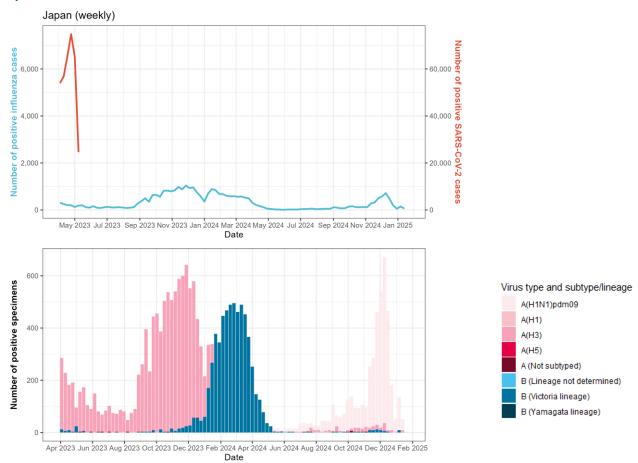


**Eastern Asia** 





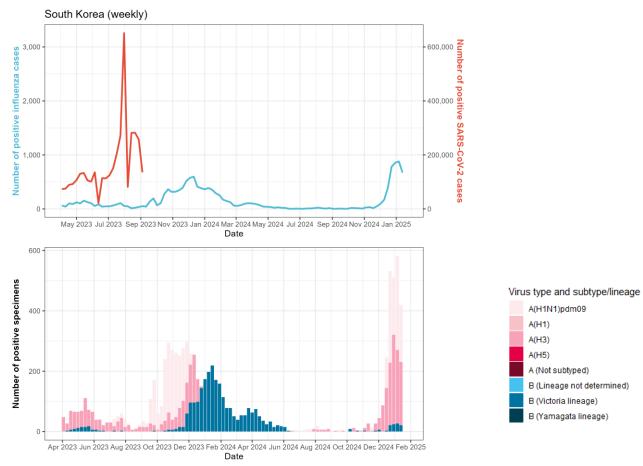
#### Japan



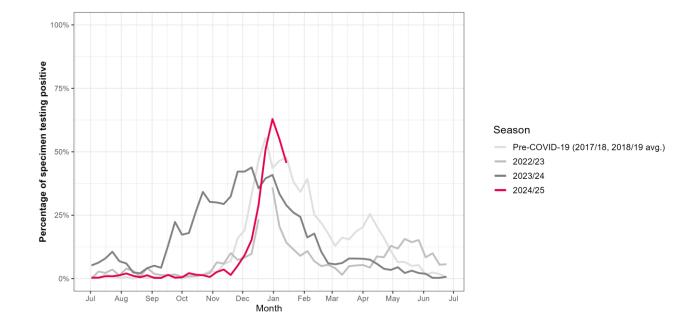
Note: Japan stopped reporting SARS-CoV-2 activity to the WHO since W21/2023

# Percentage of specimens testing positive for influenza in different seasons: data not available

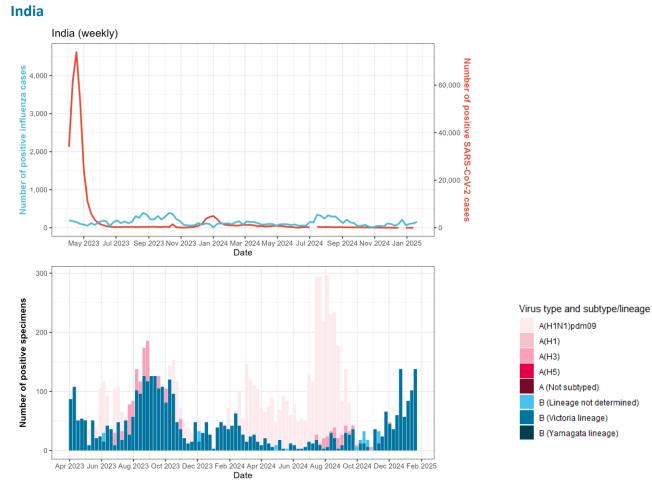
#### **South Korea**

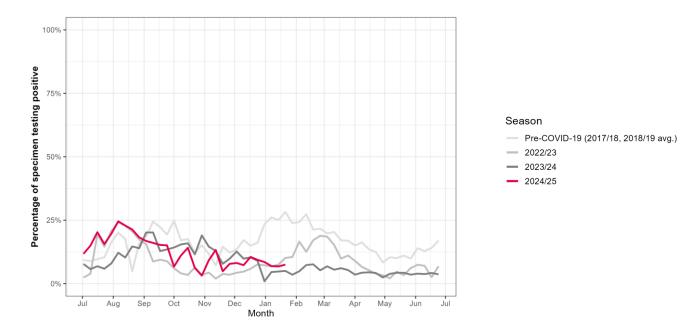


Note: South Korea stopped reporting SARS-CoV-2 activity to the WHO since W37/2023

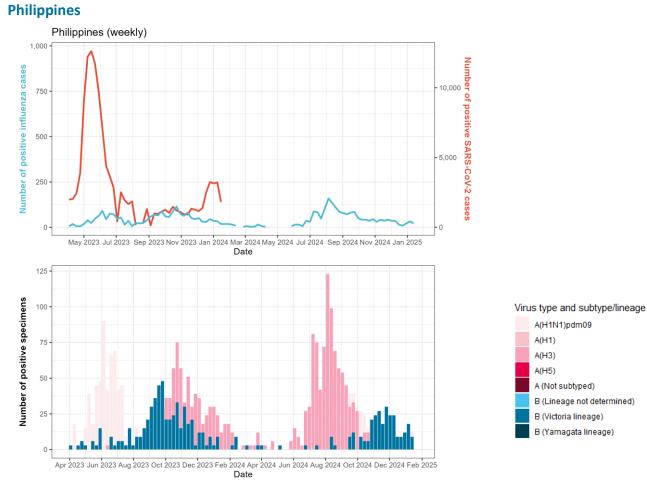


## **Southern Asia**

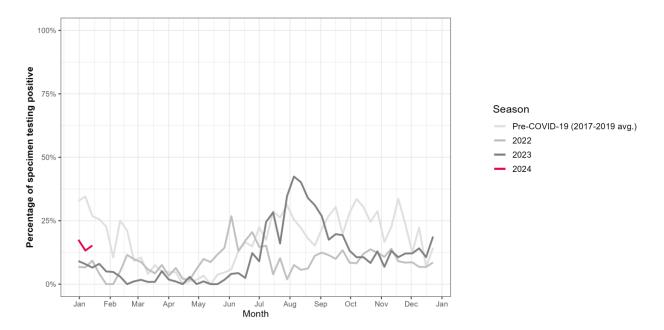




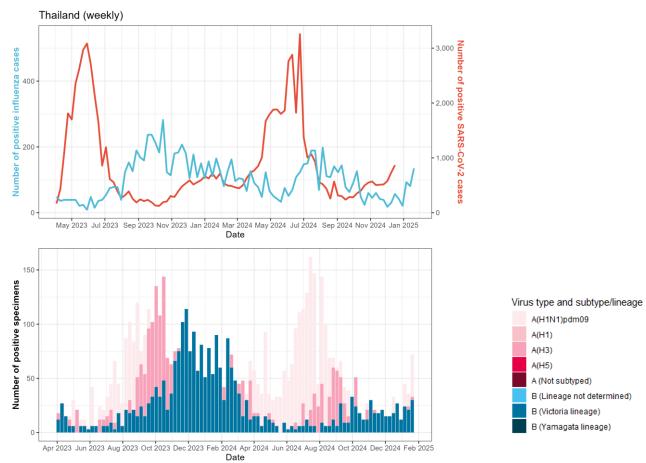




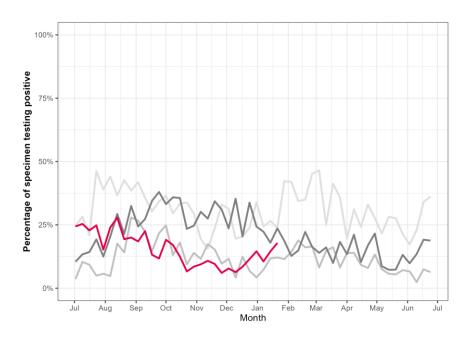
Note: the Philippines stopped reporting **SARS-CoV-2** activity to the WHO since W04/2024



#### Thailand



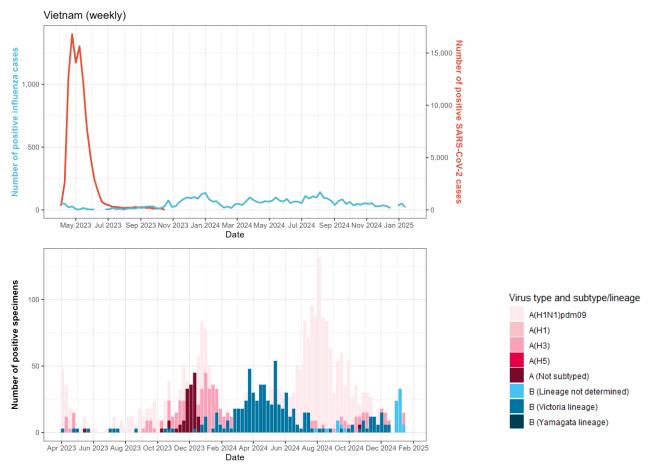
#### Percentage of specimens testing positive for influenza in different seasons



#### Season

- Pre-COVID-19 (2017/18, 2018/19 avg.)
- 2022/23
- 2023/24
- 2024/25

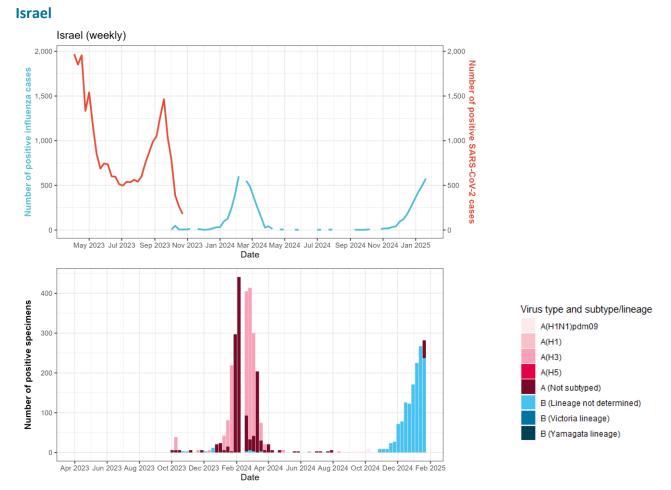
#### Vietnam



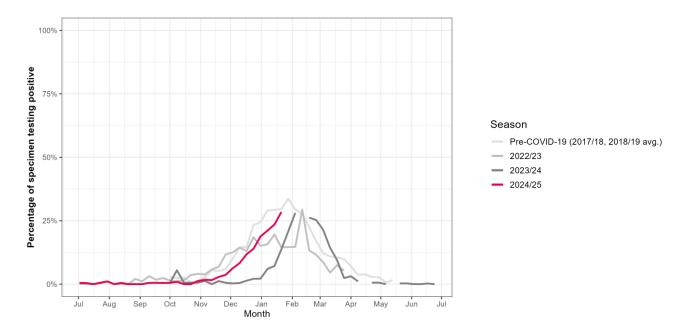
Note: Vietnam stopped reporting SARS-CoV-2 activity to the WHO since W44/2023

# Percentage of specimens testing positive for influenza in different seasons: data not available

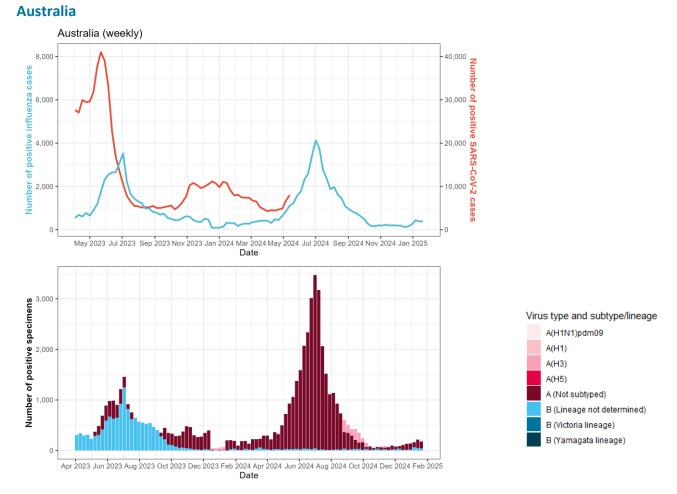
## Western Asia



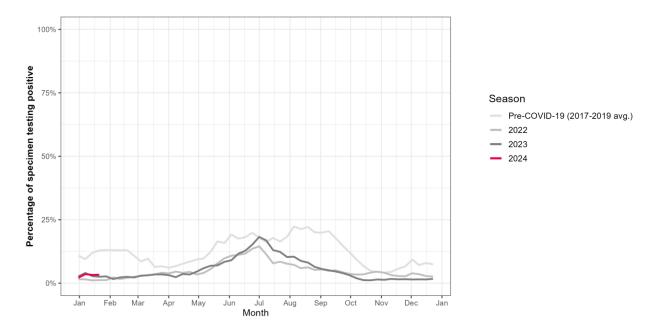
Note: Israel stopped reporting SARS-CoV-2 activity to the WHO since W44/2023



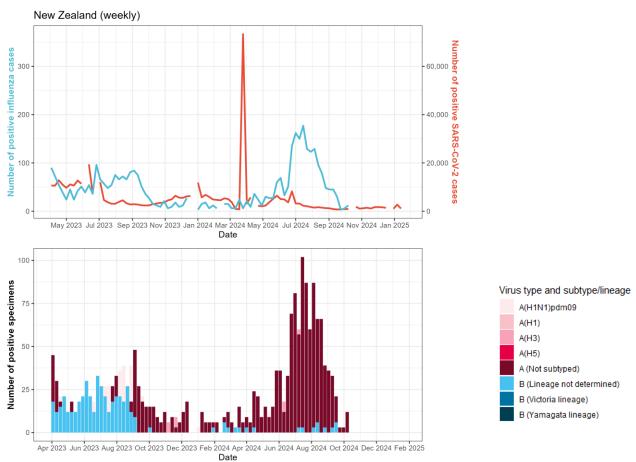
## Oceania

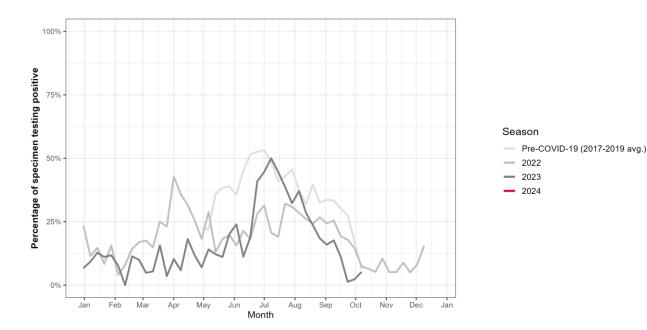


Note: Australia stopped reporting SARS-CoV-2 activity to the WHO since W20/2024



#### **New Zealand**





# Absolute numbers per country

Country	Year	Cases <sup>a,b</sup> of	+/- since	Cases <sup>a</sup> of	+/- since	Week of last
		SARS-CoV-2*	last month <sup>c</sup>	influenza	last month <sup>c</sup>	influenza update
Argentina	2019			19,431		
Argentina	2020	1,674,319		1,395		
Argentina	2021	4,106,203		87		
Argentina	2022	4,110,617		79,755		
Argentina	2023	153,818		16,854		
Argentina	2024	65,800		44,055		
Argentina	2025	163	163	183	183	2025-03
Australia	2019			42,006		
Australia	2020	28,381		2,847		
Australia	2021	338,226		24		
Australia	2022	10,418,952		43,962		
Australia	2023	935,976		46,281		
Australia	2024	139,626		47,832		
Australia	2025	0	0	1,449	1,449	2025-04
Brazil	2019			10,377		
Brazil	2020	7,563,551		4,173		
Brazil	2021	14,700,856		3,720		
Brazil	2022	14,038,581		10,944		
Brazil	2023	1,209,506		65,817		
Brazil	2024	0		83,907		
Brazil	2025	0	0	2,307	2,307	2025-04
Canada	2019			129,588		
Canada	2020	565,508		134,868		
Canada	2021	1,536,966		1,011		
Canada	2022	2,390,310		213,942		
Canada	2023	281,456		141,498		
Canada	2024	44,819		214,362		
Canada	2025	0	0	59,733	59,733	2025-04
Chile	2019			19,617		
Chile	2020	605,950		816		
Chile	2021	1,198,732		231		
Chile	2022	3,227,670		39,417		
Chile	2023	300,625		32,778		
Chile	2024	76,988		59,124		
Chile	2025	41	41	1,335	1,335	2025-04
China	2019			368,271		
China	2020	96,673		93,711		
China	2021	35,398		78,453		
China	2022	84,792,971		169,365		
China	2023	14,397,685		782,298		
China	2024	58,852		540,276		

Country	Year	Cases <sup>a,b</sup> of	+/- since	Cases <sup>a</sup> of	+/- since	Week of last
		SARS-CoV-2 <sup>*</sup>	last month <sup>c</sup>	influenza	last month <sup>c</sup>	influenza update
Egypt	2019			5,997		
Egypt	2020	136,644		1,977		
Egypt	2021	248,084		699		
Egypt	2022	130,805		8,127		
Egypt	2023	490		9,222		
Egypt	2024	0		6,489		
Egypt	2025	0	0	987	987	2025-04
France	2019			76,215		
France	2020	2,338,258		49,767		
France	2021	6,371,668		9,213		
France	2022	29,279,621		120,444		
France	2023	1,007,943		68,070		
France	2024	0		100,623		
France	2025	0	1,201	44,667	44,667	2025-04
Germany	2019			3,645		
Germany	2020	1,660,178		2,874		
Germany	2021	5,353,865		87		
Germany	2022	30,227,893		5,769		
Germany	2023	1,195,820		2,388		
Germany	2024	0		4,749		
Germany	2025	0	0	1,272	1,272	2025-04
India	2019	-	-	, 31,284	,	
India	2020	10,266,679		1,965		
India	2020	24,572,130		15,384		
India	2022	9,840,329		5,844		
India	2022	334,788		10,077		
India	2024	31,401		6,372		
India	2025	13	13	441	441	2025-04
Israel	2019			5,388		
Israel	2015	419,661		4,272		
Israel	2020	962,275		1,368		
Israel	2021	3,381,658		2,322		
Israel	2022	77,964		3,039		
Israel	2023	0		4,197		
Israel	2025	0	0	1,839	1,839	2025-04
Italy	2019	-	-	19,083	_,	
Italy	2019	2,083,689		22,455		
Italy	2020	3,897,739		93		
Italy	2021	19,187,010		95 17,451		
Italy	2022	1,494,001		15,768		
Italy	2025	296,427		17,901		
Italy	2024	290,427 281	281	12,810	12,810	2025-04
		201	201		12,010	2023-04
Japan	2019	220 204		31,029 8 745		
Japan	2020	230,304		8,745 27		
Japan	2021	1,503,484		27		
Japan	2022	27,371,282		819 22.256		
Japan	2023	4,698,502		23,256		
Japan	2024	0	0	13,650	261	2025 02
Japan	2025	0	0	261	261	2025-03

Country	Year	Cases <sup>a,b</sup> of	+/- since	Cases <sup>a</sup> of	+/- since	Week of last
		SARS-CoV-2 <sup>*</sup>	last month <sup>c</sup>	influenza	last month <sup>c</sup>	influenza update
Mexico	2019			20,889		
Mexico	2020	1,496,067		14,397		
Mexico	2021	2,538,755		2,880		
Mexico	2022	3,236,805		30,942		
Mexico	2023	336,789		22,998		
Mexico	2024	14,097		34,590		
Mexico	2025	0	0	6,822	6,822	2025-04
Netherlands	2019			15,498		
Netherlands	2020	773,198		9,705		
Netherlands	2021	2,312,304		1,413		
Netherlands	2022	5,480,565		44,592		
Netherlands	2023	53,984		30,525		
Netherlands	2024	13,810		38,643		
Netherlands	2025	264	264	8,199	8,199	2025-03
New Zealand	2019			3,033		
New Zealand	2020	1,807		0		
New Zealand	2021	11,939		0		
New Zealand	2022	2,043,704		0		
New Zealand	2023	382,925		1,893		
New Zealand	2024	224,052		1,899		
New Zealand	2025	3,809	3,809	0	0	2024-41
Philippines	2019	-,	- /	1,836	-	
Philippines	2020	472,523		156		
Philippines	2021	2,371,346		315		
Philippines	2022	1,218,790		780		
Philippines	2023	134,620		2,064		
Philippines	2024	8,183		1,890		
Philippines	2025	0	0	75	75	2025-03
Poland	2019	-	-	5,358		
Poland	2015	1,297,400		3,846		
Poland	2020	2,811,801		5,840 6		
Poland	2021					
Poland	2022	2,259,187 263,677		4,812 6,255		
Poland	2023	138,044		22,470		
	2024		1,410		7,806	2025-04
Poland		1,410	1,710	7,806	7,000	2023-04
South Africa	2019	1 020 161		3,492 471		
South Africa	2020	1,039,161		471		
South Africa	2021	2,407,371		1,239		
South Africa	2022	602,048		3,513		
South Africa	2023	24,056		3,072		
South Africa	2024	238		3,000		0005 04
South Africa	2025	11	11	24	24	2025-04
South Korea	2019			5,106		
South Korea	2020	60,722		1,515		
South Korea	2021	574,528		0		
South Korea	2022	28,424,023		885		
South Korea	2023	5,512,600		7,758		
South Korea	2024	0		4,695		
South Korea	2025	0	0	2,406	2,406	2025-03

Country	Year	Cases <sup>a,b</sup> of	+/- since	Cases <sup>a</sup> of	+/- since	Week of last
		SARS-CoV-2*	last month <sup>c</sup>	influenza	last month <sup>c</sup>	influenza update
Spain	2019			49,074		
Spain	2020	1,919,549		26,466		
Spain	2021	4,180,589		252		
Spain	2022	7,654,824		32,241		
Spain	2023	225,378		41,844		
Spain	2024	0		42,741		
Spain	2025	0	0	18,909	18,909	2025-04
Thailand	2019			4,704		
Thailand	2020	6,919		891		
Thailand	2021	2,216,551		69		
Thailand	2022	2,500,484		1,725		
Thailand	2023	38,456		5,151		
Thailand	2024	46,079		4,875		
Thailand	2025	0	0	330	330	2025-04
United Kingdom	2019			127,341		
United Kingdom	2020	2,563,561		43,119		
United Kingdom	2021	10,878,146		8,256		
United Kingdom	2022	10,752,848		80,157		
United Kingdom	2023	670,729		72,210		
United Kingdom	2024	160,266		380,955		
United Kingdom	2025	1,823	1,823	113,250	113,250	2025-04
United States	2019			805,572		
United States	2020	19,577,585		689,298		
United States	2021	33,956,701		118,521		
United States	2022	45,877,410		1,409,904		
United States	2023	4,025,133		530,727		
United States	2024	0		1,027,446		
United States	2025	0	0	70,305	70,305	2025-01
Vietnam	2019			1,065		
Vietnam	2020	1,456		438		
Vietnam	2021	1,729,801		117		
Vietnam	2022	9,793,887		1,197		
Vietnam	2023	98,880		1,788		
Vietnam	2024	0		3,261		
Vietnam	2025	0	0	105	105	2025-03

<sup>a</sup> Laboratory-confirmed cases.

<sup>b</sup> As of the 24<sup>th</sup> bulletin, the data source, used by Our World In Data, for SARS-CoV-2 cases has been changed retrospectively. As a result, yearly totals displayed in this table may differ from those in previous bulletins. <sup>c</sup> Influenza cases are reported by FluNet on a weekly basis. To convert these data to months, weekly data are assigned to the month most days in that week belong to. SARS-CoV-2 cases are reported per day and assigned to each month by date. +/- since last month includes all cases over the last full calendar month.

## Methodology

#### Background

After assessment of alarming levels of spread and severity of SARS-CoV-2 virus, on March 11, 2020, WHO declared COVID-19 a pandemic [12]. The emergence of this new virus has had a major impact on the global circulation of respiratory viruses, including influenza and RSV [13]. The FluCov project aims to understand and communicate the impact of COVID-19 on: i) influenza activity and ii) prevention and control measures (e.g. vaccination) in the coming years.

#### Scope

The countries included in this FluCov-Bulletin are distributed over the Americas (North, Central and Tropical South), Europe (Northern, South West and Eastern), Africa (Northern and Southern), Asia (Eastern, Southern, South East and Western) and Oceania. These data were compared to the prevention and control measures applied in each country using the Stringency Index from the Oxford COVID-19 Government Response Tracker (OxCGRT), when this indicator was available (until 31 December 2022) [14].

#### Data sources

- Influenza: FluNet [15] is a global web-based tool for influenza virological surveillance first launched in 1997. The virological data entered into FluNet, e.g. number of influenza viruses detected by subtype, are critical for tracking the movement of viruses globally and interpreting the epidemiological data. The data are provided remotely by National Influenza Centres (NICs) of the Global Influenza Surveillance and Response System (GISRS) and other national influenza reference laboratories collaborating actively with GISRS or are uploaded from WHO regional databases.
- SARS-CoV-2: Our World in Data systematically collects COVID-19 data which is presented in their online tool [16]. We used this platform to extract data on the number of cases, as well as tests performed per country. As of 8 March 2023, Our World in Data changed their primary data source from the John Hopkins repository on daily confirmed COVID-19 cases to the WHO [17].
- **Government response tracker**: The Oxford COVID-19 Government Response Tracker (OxCGRT) [14] systematically collects information on several different common policy responses that governments have taken to respond to the pandemic on 20 indicators such as school closures and travel restrictions. It now has data from more than 180 countries. OxCGRT data is downloaded directly from the Our World in Data platform.

#### **Extraction details**

Data were extracted on 3 February 2025 and cover the period 1 January 2019 to 26 January (influenza) and 19 January 2025 (SARS-CoV-2). Data from both platforms are regularly updated and **sometimes retrospectively corrected**. This might explain any discrepancies between our reported figures and the data published online, even when referring to the exact same period. In case of any unclear details or perceived irregularities, feel free to contact us at <u>flucov@nivel.nl</u>.

## References

[1] CDC. COVID Data Tracker. CDC COVID Data Tracker: Home [accessed 3 February 2025]

[2] Government of Canada. Canadian respiratory virus surveillance report. <u>Summary: Canadian respiratory virus</u> <u>surveillance report (FluWatch+) — Canada.ca</u> [accessed 3 February 2025 ]

[3] PAHO. Respiratory Viruses weekly report. <u>Influenza, SARS-CoV-2, RSV and other Respiratory Viruses</u> <u>Regional Situation - PAHO/WHO | Pan American Health Organization</u> [accessed 3 February 2025]

[4] ECDC. European Respiratory Virus Surveillance Summary (ERVISS). <u>erviss.org</u> [accessed 3 February 2025]
[5] ECDC. Acute respiratory infections in the EU/EEA: epidemiological update and current public health recommendations – winter 2024/2025. <u>Acute respiratory infections in the EU/EEA: epidemiological update and</u>

current public health recommendations – winter 2024/2025 [accessed 7 January 2025] [6] CDC. Weekly US Influenza Surveillance Report: Key Updates for Week 4, ending January 25, 2025. Weekly US Influenza Surveillance Report: Key Updates for Week 4, ending January 25, 2025 | FluView | CDC [accessed 4 February 2025]

[7] UKHSA. National flu and COVID-19 surveillance report: 30 January (week 5). <u>National flu and COVID-19</u> <u>surveillance report: 30 January (week 5) - GOV.UK</u> [accessed 4 February 2025]

[8] WHO. Recommended composition of influenza virus vaccines for use in the 2024-2025 northern hemisphere influenza season. February 2024

[9] Paget J, Caini S, Del Riccio M, van Waarden W, Meijer A. Has influenza B/Yamagata become extinct and what implications might this have for quadrivalent influenza vaccines? Euro Surveill. 2022 Sep;27(39):2200753. doi: 10.2807/1560-7917.ES.2022.27.39.2200753

- [10] WHO. Global Influenza Update N° 511. Global Influenza Programme (who.int) [accessed 4 February 2025]
- [11] WHO. Statement on the fifteenth meeting of the IHR (2005) Emergency Committee on the COVID-19 pandemic. <u>Statement on the fifteenth meeting of the IHR (2005) Emergency Committee on the COVID-19</u> pandemic (who.int) [accessed 20 March 2024]
- [12] WHO. Listing of WHO's response to COVID-19. https://bit.ly/3mIMtRi [accessed 1 July 2022]
- [13] WHO. Influenza Update N° 416. http://bit.ly/3T5SvHV [accessed 7 April 2022]
- [14] Oxford COVID-19 Government Response Tracker, Blavatnik School of Government, University of Oxford. http://bit.ly/41WqmqX [accessed 16 June 2021]
- [15] WHO. FluNet. https://www.who.int/tools/flunet [accessed 8 August 2024]
- [16] Ritchie, H., Ortiz-Ospina, E., Beltekian, D., Mathieu, E., Hasell J., Macdonald B. et al. Coronavirus Pandemic (COVID-19). https://ourworldindata.org/coronavirus [accessed 15 June 2021]
- [17] Mathieu E, Rodés-Guirao L. Our World in Data will rely on data from the WHO to track confirmed COVID-19 cases and deaths. <u>https://ourworldindata.org/covid-jhu-who</u> [accessed 5 April 2023]

#### **Project Team**

**Nivel, Netherlands:** Bronke Boudewijns, Susanne Heemskerk, Marco Del Riccio, Lotte van Heuvel, Saverio Caini, Caroline Schneeberger

#### Global Influenza Initiative:

Ben Cowling, School of Public Health, University of Hong Kong, Hong Kong Ann Falsey, Rochester General Hospital, University of Rochester School of Medicine, Rochester, NY Angela Gentile, Ricardo Gutiérrez Children's Hospital, Buenos Aires Jan Kyncl, Department of Infectious Diseases Epidemiology, National Institute of Public Health, Prague Bruno Lina: Virpath Laboratory, University of Lyon, Lyon Raina McIntyre: The Kirby Institute, University of New South Wales, Sydney

Global Influenza Initiative

Sanofi, France: Erica Dueger, Clotilde El Guerche-Séblain, Meral Akçay, Cecile Eymin

#### Websites

Project Website: <u>https://www.nivel.nl/en/flucov</u> FluCoV Dashboard: <u>https://www.nivel.nl/en/dossier-epidemiology-respiratory-viruses/flucov-dashboard</u>

#### Funding

The FluCov Project is funded by Sanofi, France.