

# FluCov-Bulletin - July 2024

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 has further decreased in July, due to low activity in the Northern Hemisphere and decreasing activity in most Southern Hemisphere countries (see Figure 1). The following country patterns were observed for influenza:

- In the <u>Southern Hemisphere</u>, <u>influenza</u> activity decreased in **Argentina**, **Chile**, and **South Africa**. A slight increase in the percentage of specimens testing positive was reported in **South Africa** at the end of July, with predominantly detections of <u>influenza</u> B.
- Influenza activity increased in Australia and New Zealand, although the peak seems to have been passed in Australia and a downward trend in detections can be seen at the end of July. Influenza A(H3N2) was the predominant virus in both countries.
- In **Brazil**, influenza remained stable compared to June, at relatively low levels.
- In the Northern Hemisphere, and increase in influenza A(H1N1)pdm09 activity was reported in India and Thailand, with the weekly percentage of positive tests increasing to 20% in India and 25% in Thailand, by the end of July [1].
- Influenza activity was stable at low levels in Canada, Mexico and all European countries covered by the bulletin (France, Germany, the Netherlands, Poland, Spain, and the United Kingdom).
- Continued low influenza activity was reported in China, Egypt, Japan, Philippines, South Korea, and Vietnam.
- No update on influenza activity was available for Israel, Italy and the United States in July.

Globally, SARS-CoV-2 detections remain relatively low (see figure 1). The following patterns were observed for SARS-CoV-2 in July 2024:

- SARS-CoV-2 activity decreased in Thailand, after an increase in May and June.
- Increases in SARS-CoV-2 activity were reported in China, Mexico, the Netherlands, Poland and the United Kingdom.
- SARS-CoV-2 activity was low or decreasing in Argentina, Canada, Chile, India, Italy, New Zealand and South Africa.
- No update on SARS-CoV-2 detections was available for Australia, Brazil, Egypt, France, Germany, Israel, Japan, Philippines, South Korea, Spain, United States, and Vietnam in July.

#### **Implications**

In the Southern Hemisphere, influenza activity has started to decrease in most Southern Hemisphere countries covered by the Bulletin: Argentina, Chile, South Africa, and most recently in Australia starting end of July. In New Zealand, however, influenza activity continued to increase. Influenza A(H3N2) was the predominant virus type in all Southern Hemisphere countries covered by the Bulletin except South Africa, where influenza B/Victoria replaced A(H1N1)pdm09 as the predominant virus type in July. This bimodal curve of influenza A and B is not uncommon and was already regularly seen before the COVID-19 pandemic [2]. It is of importance that the lineage of influenza B specimens continues to be determined, to understand whether influenza B/Yamagata has ceased circulating globally [3]. In the Northern Hemisphere, influenza activity remained low at interseasonal levels.

When looking at the 2023/24 influenza season in the **United States** and **Canada**, it seems that the peak timing in the percentage of influenza-positive cases was more comparable to the pre-pandemic average than the 2022/23 season, when the peak of influenza epidemics was earlier compared to the pre-pandemic period (1.9 months, globally) [4]. In **Argentina**, however, the 2024 peak was reached earlier than in 2023, a year that was more comparable to pre-pandemic timing. A comparative analysis of peak timing between seasons is necessary to identify when there is a return to pre-pandemic influenza patterns after the disruption caused by COVID-19, and caution is needed when drawing conclusions at this moment.

As of July 2024, SARS-CoV-2 activity is relatively low in most countries included in the Bulletin. Small increases in SARS-CoV-2 detections were reported in a number of Northern Hemisphere countries (China, Mexico, the Netherlands, Poland, and the United Kingdom). A decrease of SARS-CoV-2 detections was reported in Thailand, the only country reporting a major increase in June. Thailand's peak in SARS-CoV-2, is now being followed by an increase in influenza, a pattern that was also seen before in other Northern and Southern hemisphere countries covered by the Bulletin.

One year following the WHO's declaration of the pandemic's end [5], countries have implemented varied approaches to monitoring SARS-CoV-2. These strategies presently encompass the reduction of surveillance activities and instances where surveillance data is not shared with the WHO. This variation in approaches impacts the completeness of data reported in the FluCov Bulletin.

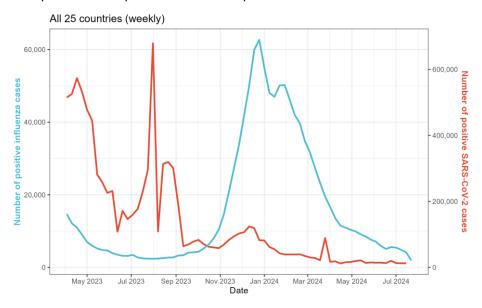


Figure 1: SARS-CoV-2 and influenza detections in the 25 countries covered by the Bulletin (period: from week 1/2023 to week 30/2024).

Disclaimer: Comparisons between countries and seasons 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 28 July, 2024. For real time figures starting from 1 January 2019, please visit the <u>FluCov Dashboard</u>. This FluCov-Bulletin includes the countries Canada, United States, Mexico, Brazil, United Kingdom, France, Germany, Italy, Netherlands, Spain, Poland, South Africa, Egypt, China, Japan, South Korea, India, Philippines, Thailand, Vietnam, Israel and Australia.

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 of SARS-CoV-2 detections per country can be found on pages 26-28 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 season, 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

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

North America

Canada

**United States** 

Central America Caribbean

**Mexico** 

**Tropical South America** 

**Brazil** 

**Temperate South America** 

Argentina Chile

Northern Europe

**United Kingdom** 

Eastern Europe

**Poland** 

South West Europe

France Germany Italy

**Netherlands** 

**Spain** 

Northern Africa

**Egypt** 

Southern Africa

**South Africa** 

Eastern Asia

China Japan

**South Korea** 

Southern Asia

India

South East Asia

Philippines Thailand Vietnam

Western Asia

Israel

Oceania

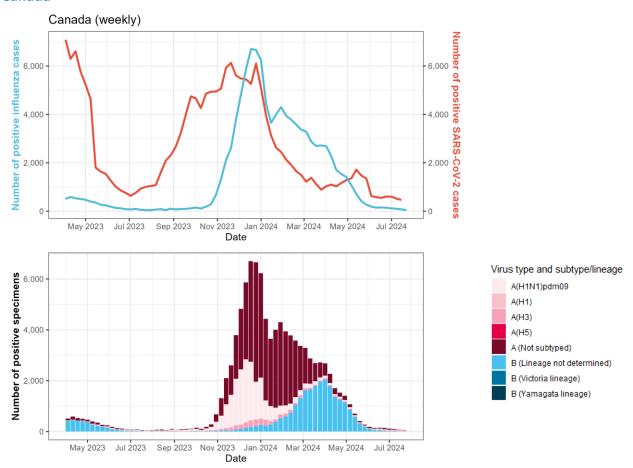
**Australia** 

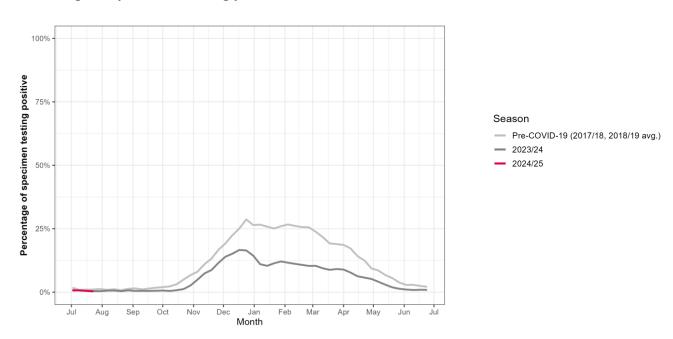
**New Zealand** 

3

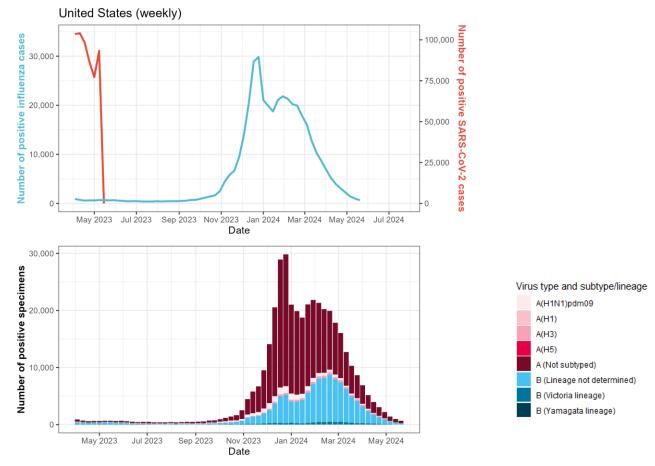
### **North America**

#### Canada

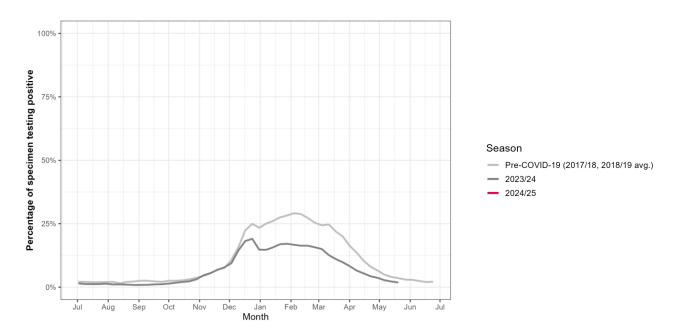




#### **United States**

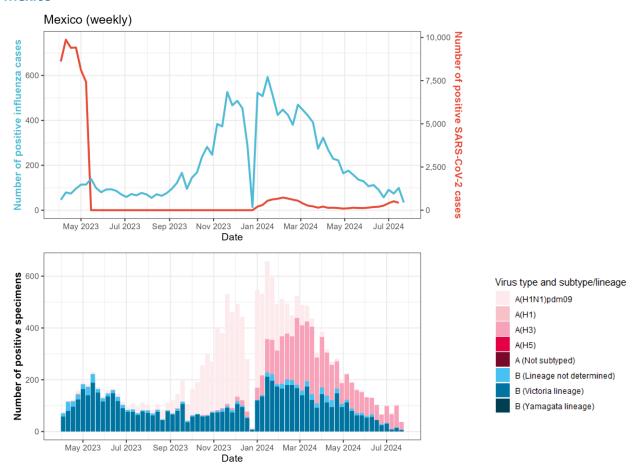


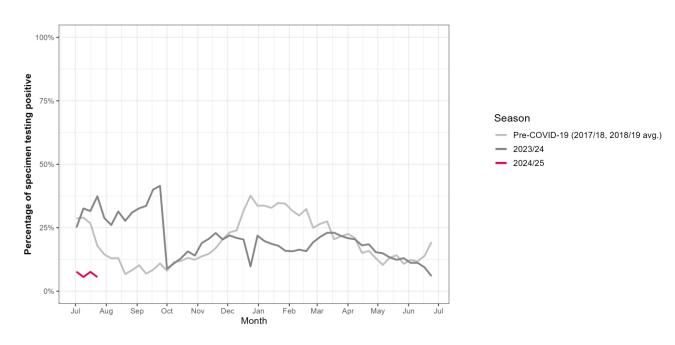
Note: The United States stopped reporting SARS-CoV-2 activity to the WHO since W20/2023



### **Central America Caribbean**

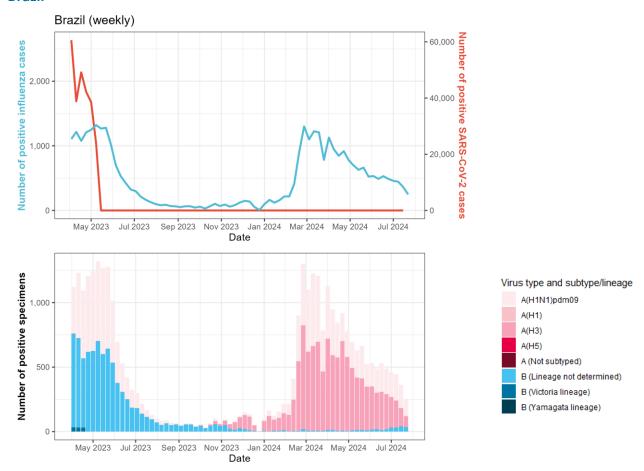
#### **Mexico**



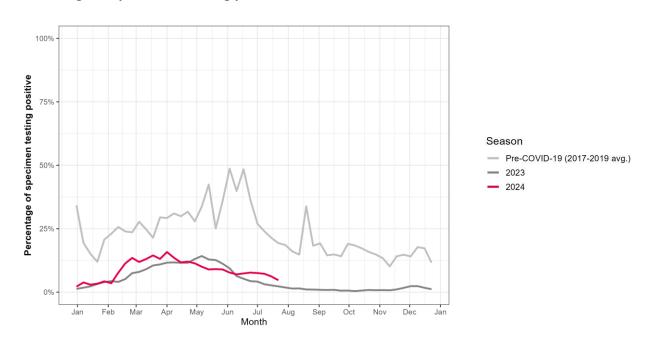


# **Tropical South America**

#### **Brazil**

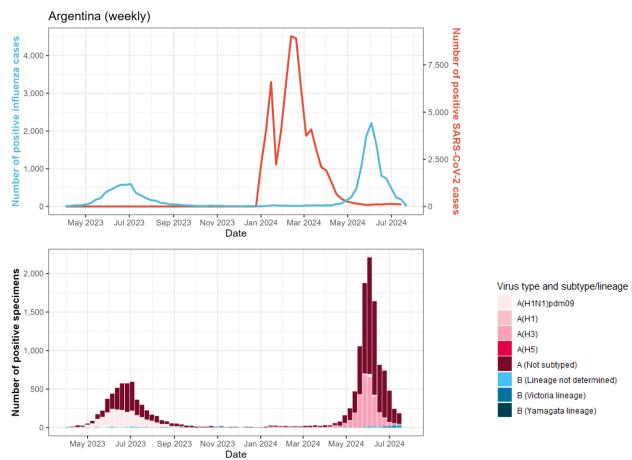


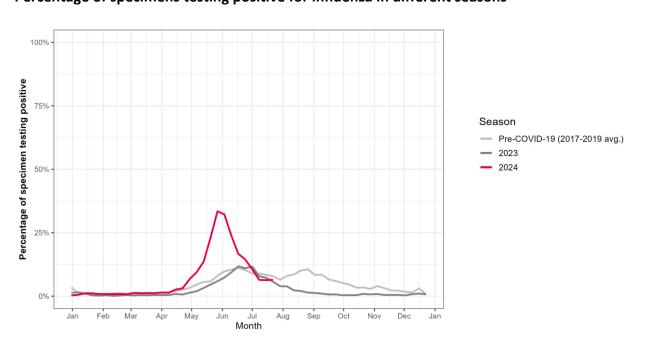
Note: Brazil has reported zero SARS-CoV-2 activity to the WHO since W2/2024



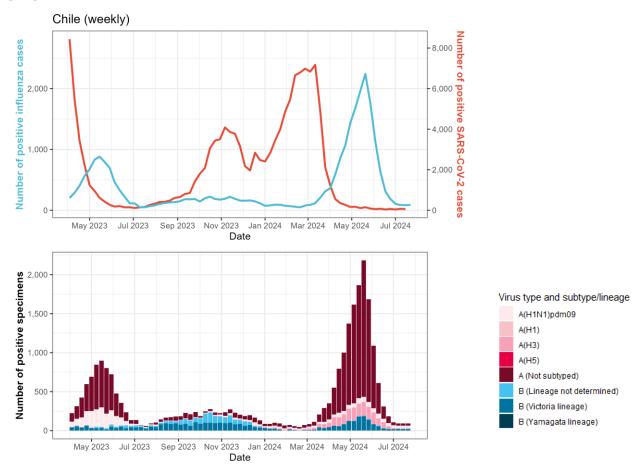
# **Temperate South America**

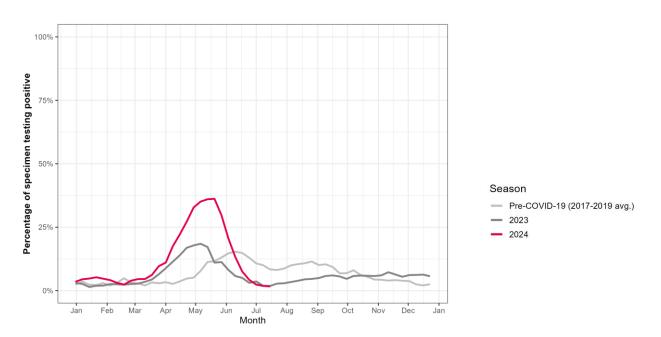
### **Argentina**





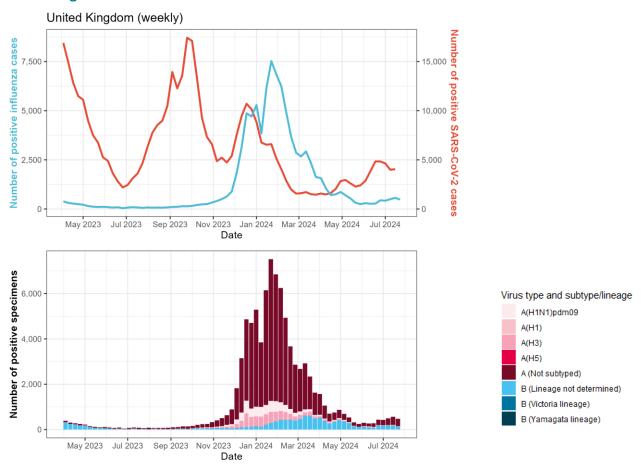
#### Chile

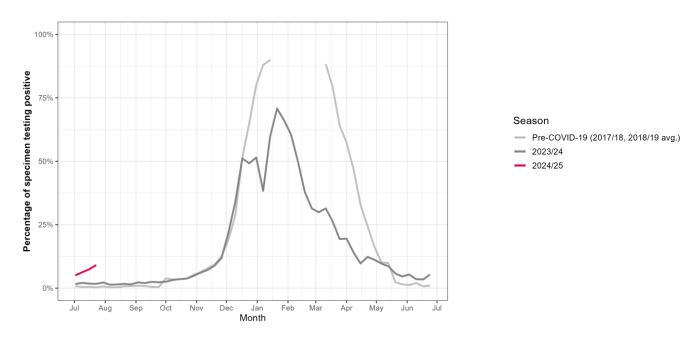




# **Northern Europe**

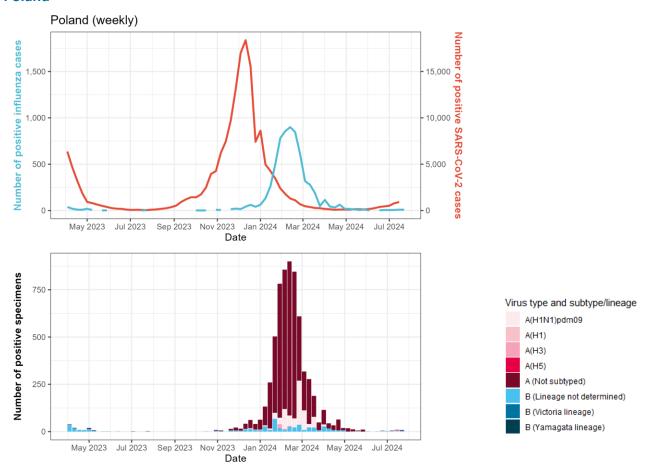
### **United Kingdom**



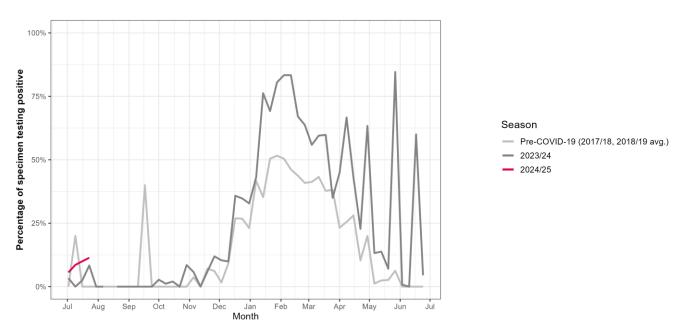


# **Eastern Europe**

#### **Poland**



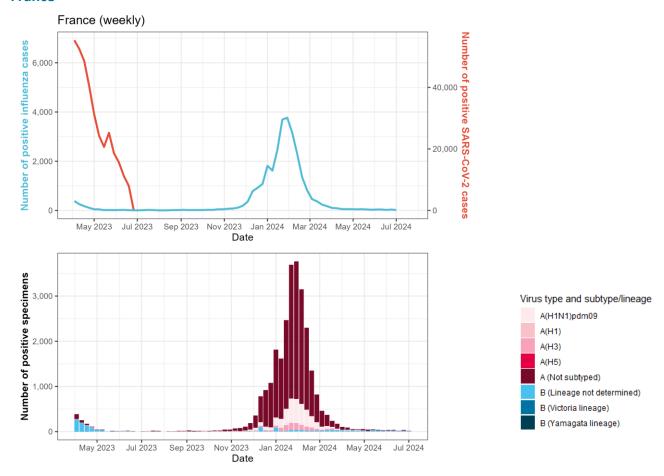
### Percentage of specimens testing positive for influenza in different seasons



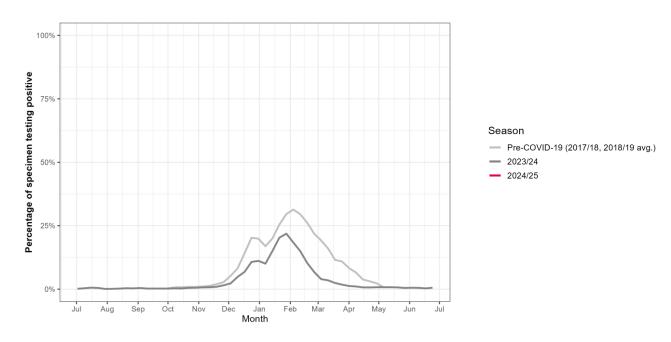
Note: the high variety in percentage positive since April 2024 is likely caused by a low number of tested specimens

# **South West Europe**

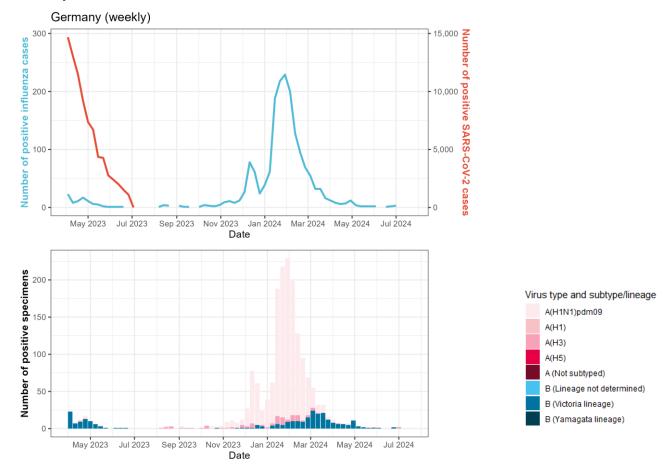
#### **France**



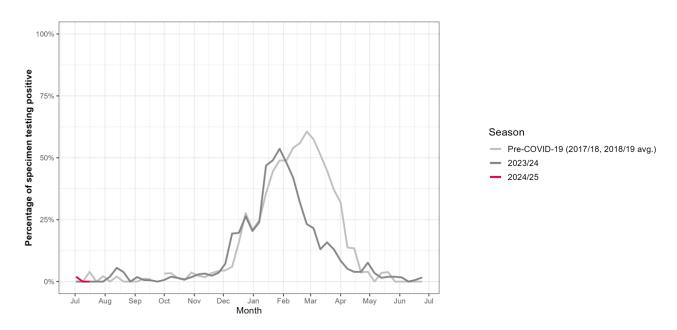
Note: France stopped reporting **SARS-CoV-2** activity to the WHO since W26/2023



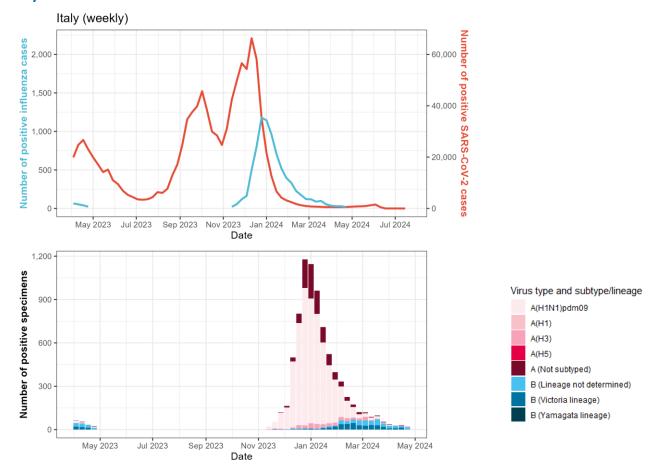
#### **Germany**



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

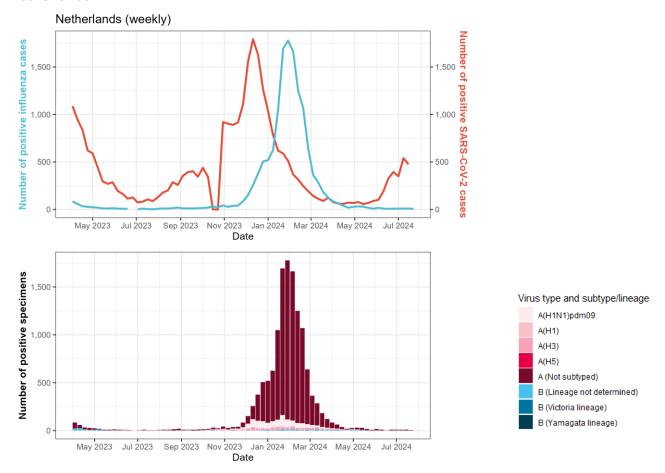


### Italy



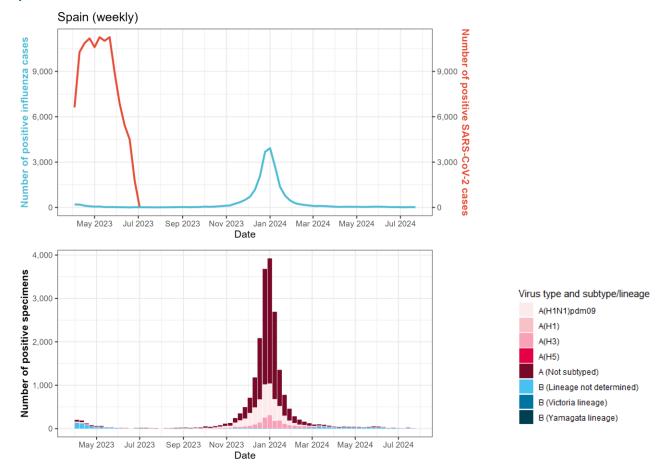
Percentage of specimens testing positive for influenza in different seasons: data not available

#### **Netherlands**

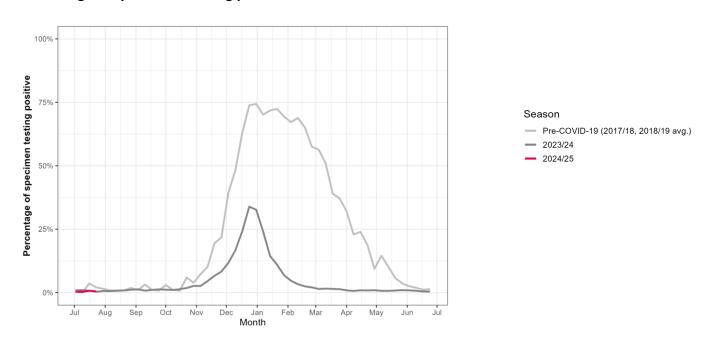


Percentage of specimens testing positive for influenza in different seasons: data not available

### **Spain**

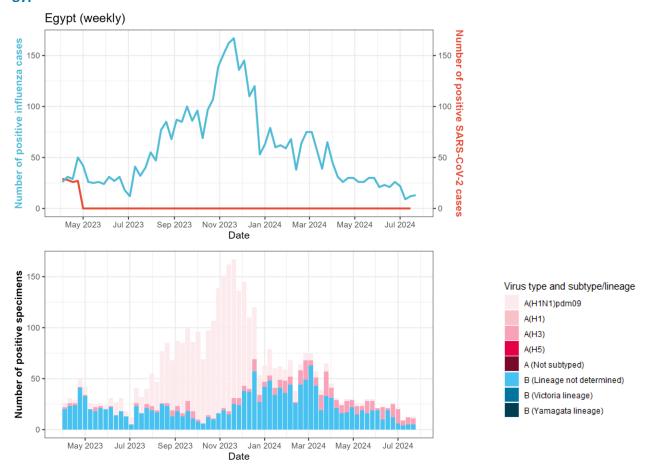


Note: Spain stopped reporting SARS-CoV-2 activity to the WHO since W27/2023

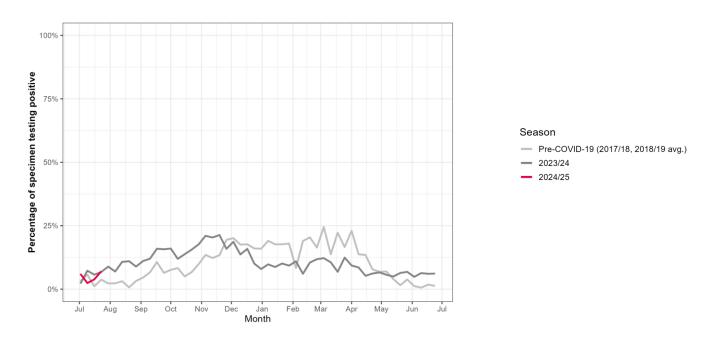


# **Northern Africa**

### **Egypt**

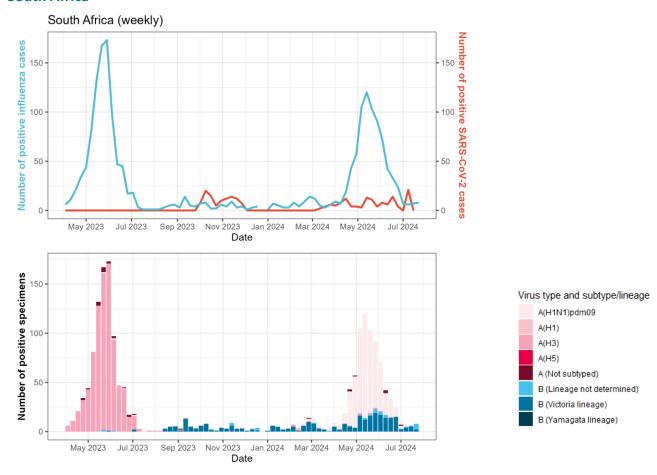


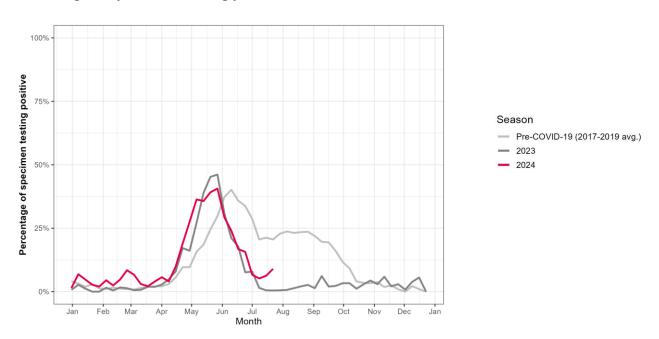
Note: Egypt has reported zero **SARS-CoV-2** activity to the WHO since W18/2023



# **Southern Africa**

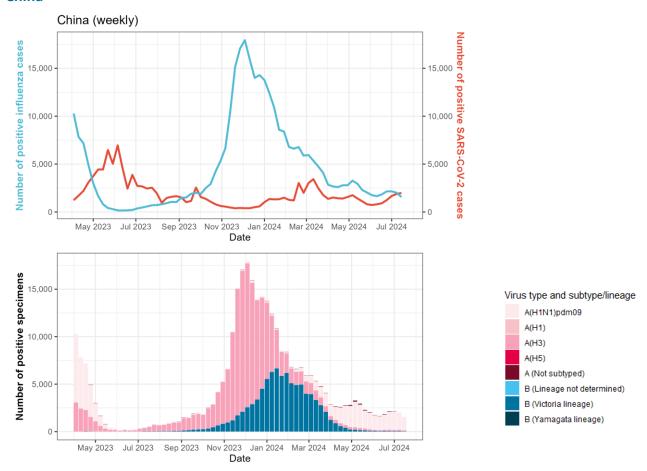
#### **South Africa**

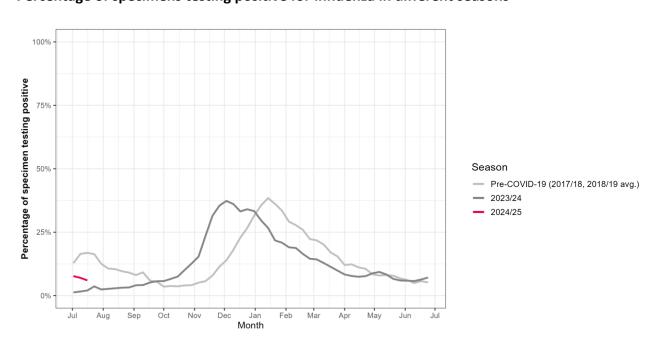




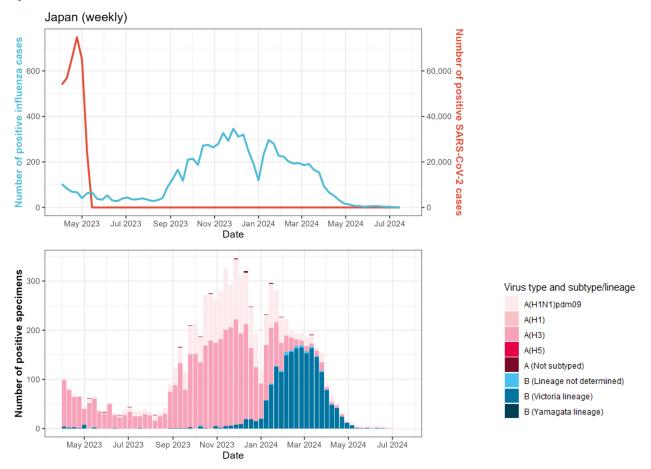
### **Eastern Asia**

#### **China**





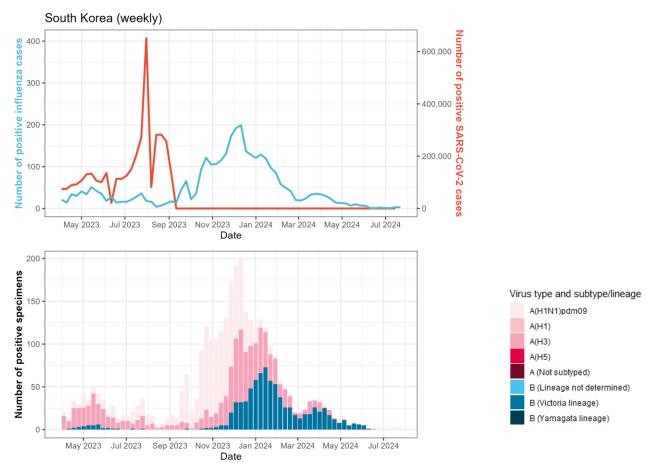
#### Japan



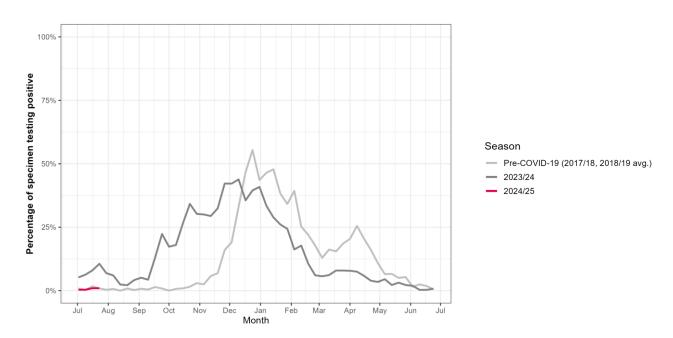
Note: Japan has reported zero **SARS-CoV-2** activity to the WHO since W21/2023

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

#### **South Korea**

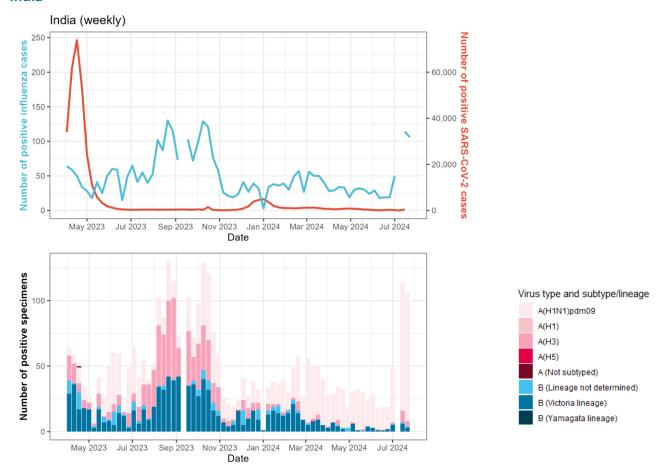


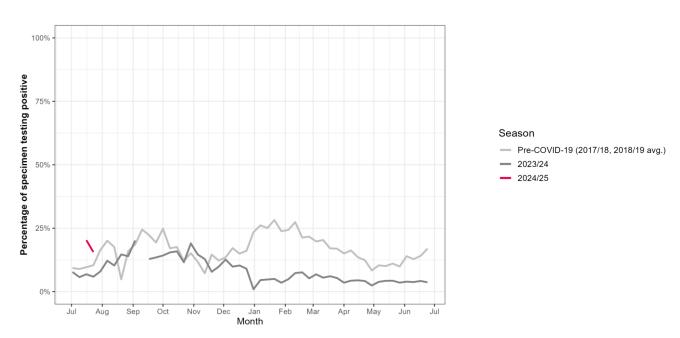
Note: South Korea has reported zero SARS-CoV-2 activity to the WHO since W37/2023



### **Southern Asia**

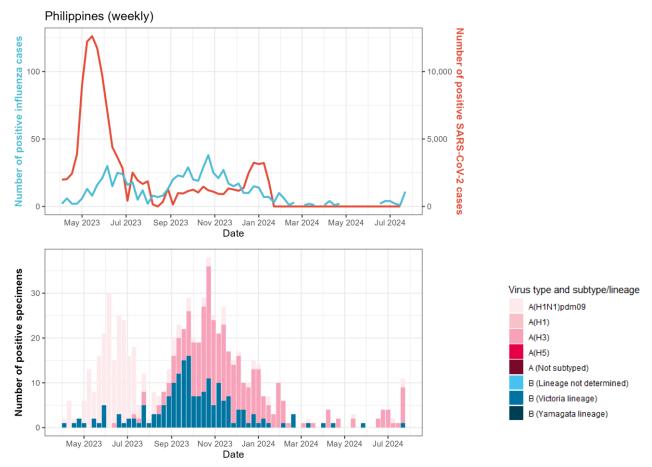
#### India



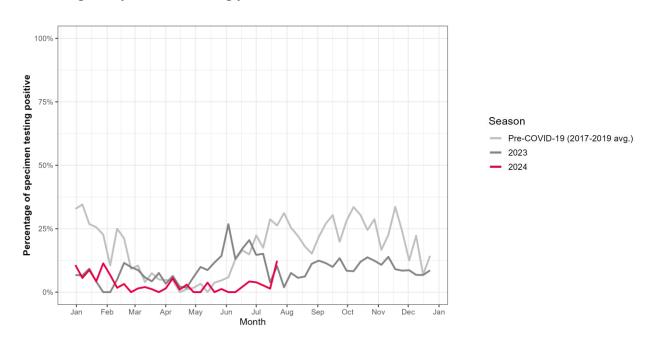


### **South-East Asia**

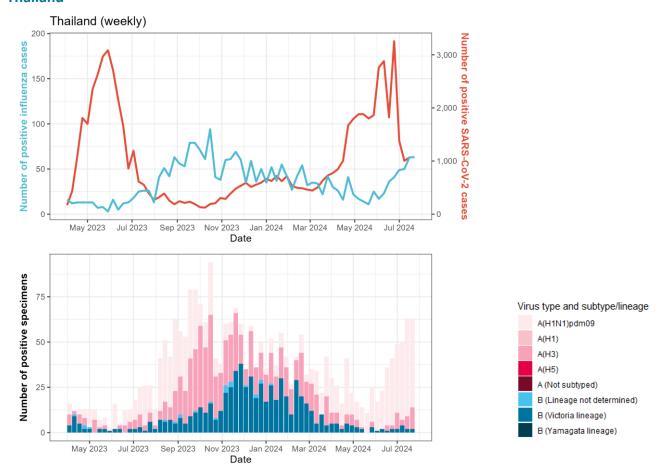
### **Philippines**

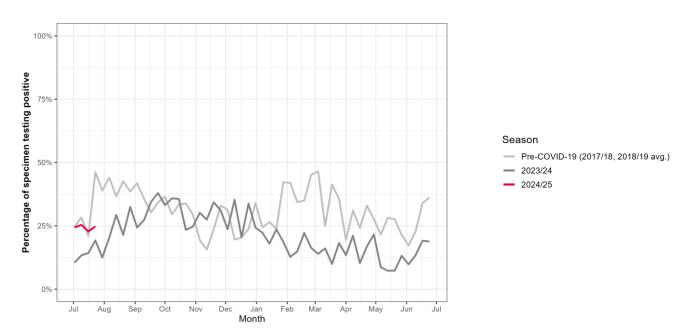


Note: the Philippines has reported zero **SARS-CoV-2** activity to the WHO since W04/2024

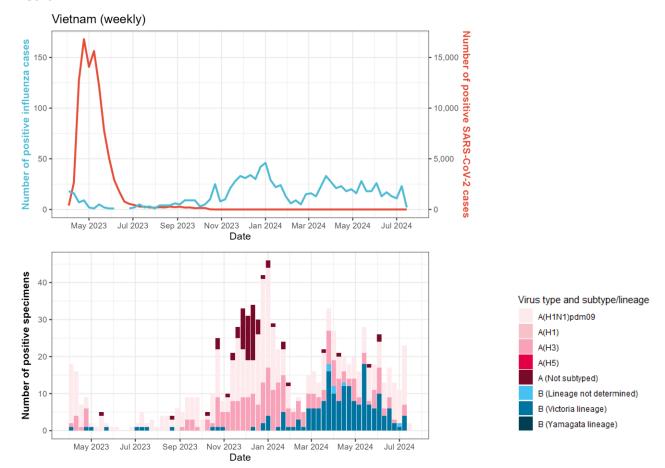


#### **Thailand**





#### **Vietnam**

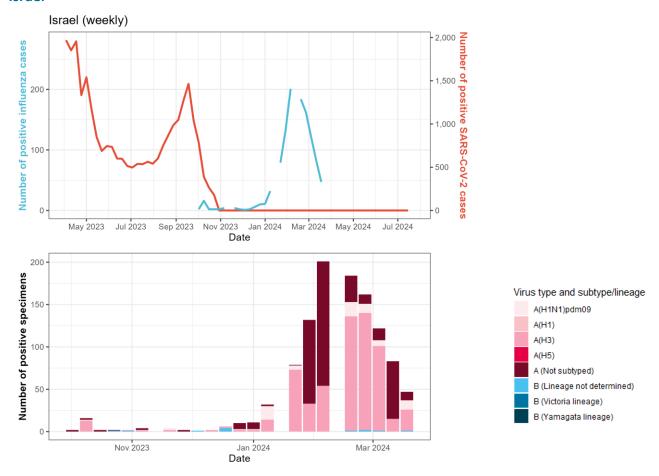


Note: Vietnam has reported zero **SARS-CoV-2** activity to the WHO since W44/2023

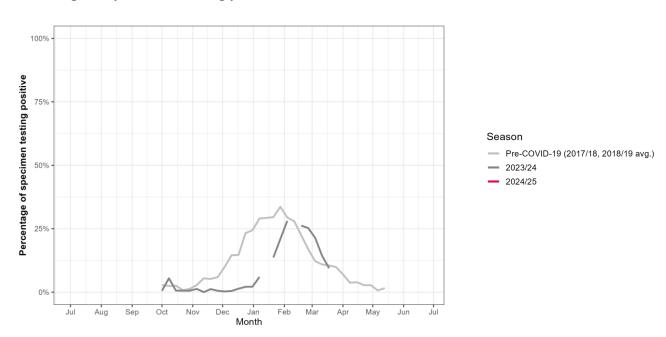
Percentage of specimens testing positive for influenza in different seasons: data not available

### **Western Asia**

#### Israel

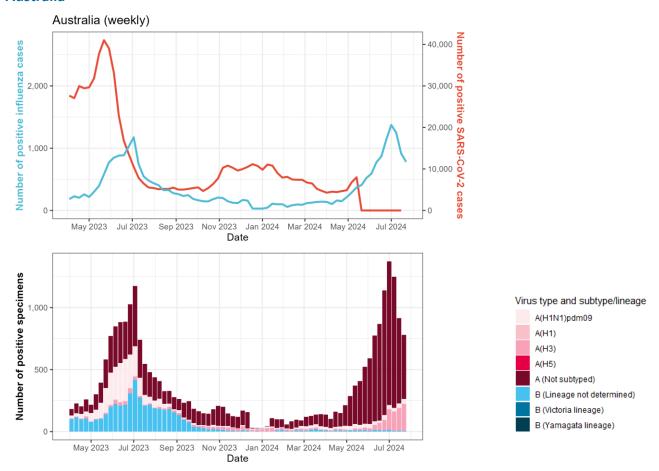


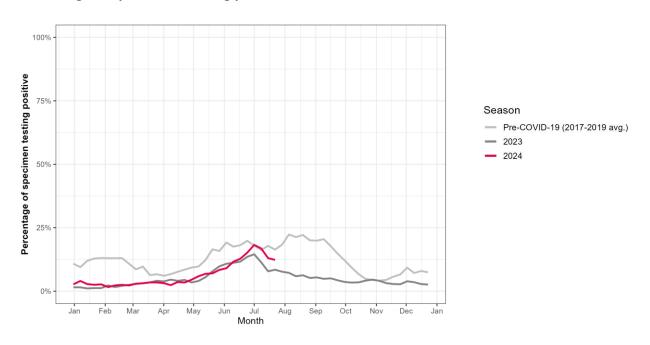
Note: Israel has reported zero **SARS-CoV-2** activity to the WHO since W44/2023



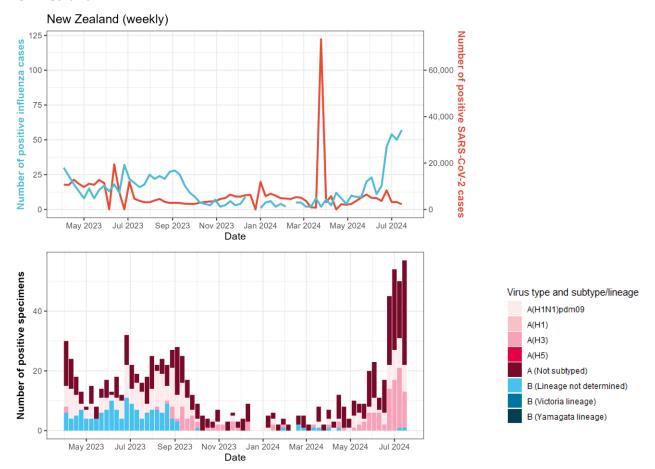
### **Oceania**

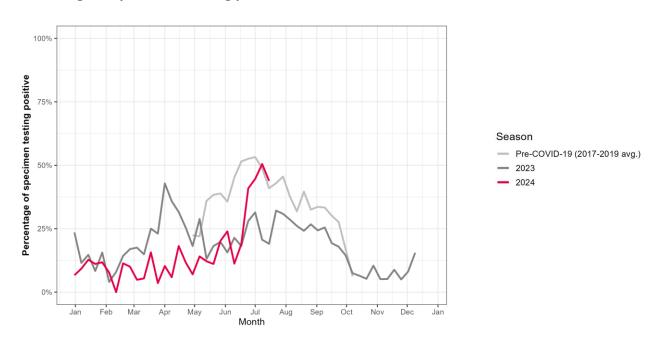
#### **Australia**





#### **New Zealand**





# **Absolute numbers per country**

Country	Year	Cases <sup>a,b</sup> of SARS-CoV-2	+/- since	Cases <sup>a</sup> of influenza	+/- since last month <sup>c</sup>	Week of last influenza update
Argentina	2019			6,477		
Argentina	2020	1,629,908		465		
Argentina	2021	3,930,008		29		
Argentina	2022	4,331,223		26,585		
Argentina	2023	153,818		5,618		
Argentina	2024	68,667	360	10,551	891	2024-30
Australia	2019			14,002		
Australia	2020	28,296		949		
Australia	2021	338,311		8		
Australia	2022	10,327,434		14,654		
Australia	2023	1,027,494		15,427		
Australia	2024	139,626	0	11,276	4,318	2024-30
Brazil	2019	-		3,459		
Brazil	2020	7,448,560		, 1,391		
Brazil	2021	14,782,177		1,240		
Brazil	2022	13,893,600		3,648		
Brazil	2023	1,387,584		21,939		
Brazil	2024	0	0	18,584	1,515	2024-30
Canada	2019			43,196	,	
Canada	2020	539,241		44,956		
Canada	2021	1,422,482		337		
Canada	2022	2,514,662		71,314		
Canada	2023	297,851		47,166		
Canada	2024	44,454	1,586	61,926	339	2024-30
Chile	2019	, -	,	6,539		
Chile	2020	598,394		272		
Chile	2021	1,200,731		77		
Chile	2022	3,207,034		13,139		
Chile	2023	326,818		10,926		
Chile	2024	67,951	177	15,975	365	2024-30
China	2019	,		122,757		
China	2020	96,324		31,237		
China	2021	34,534		26,151		
China	2022	62,314,792		56,455		
China	2023	36,877,077		260,766		
China	2024	46,302	5,538	137,544	5,730	2024-29
Egypt	2019		-,	1,999	_,	
Egypt	2019	131,315		659		
Egypt	2021	249,205		233		
Egypt	2021	134,994		2,709		
Egypt	2022	509		3,074		
Egypt	2023	0	0	1,225	56	2024-30
-8ypi	2024	U	U	1,443	30	∠UZ <del>1</del> -JU

France 2019	Country	Year	Cases <sup>a,b</sup> of	+/- since	Cases <sup>a</sup> of influenza	+/- since	Week of last
France   2020   2,338,258   16,589     France   2021   6,371,668   3,071     France   2023   1,007,943   22,690     France   2024   0   0   22,914   20   2024-27     Germany   2019   1,215   3   3   2024-27     Germany   2021   5,353,865   29   3   3   2024-29     Germany   2023   1,195,820   796   3   2024-29     Germany   2023   1,195,820   796   3   2024-29     India   2019   10,187,850   655   1   1     India   2021   24,598,952   5,128   1 <td>France</td> <td>2010</td> <td>SARS-CoV-2</td> <td>last month<sup>c</sup></td> <td></td> <td>last month<sup>c</sup></td> <td>influenza update</td>	France	2010	SARS-CoV-2	last month <sup>c</sup>		last month <sup>c</sup>	influenza update
France   2021   6,371,668   3,071     France   2022   29,279,621   40,148     France   2023   1,007,943   22,690     France   2024   0   0   22,914   20   2024-27     Germany   2019   1,215   3   3   2024-27     Germany   2021   5,353,865   29   3   2024-29     Germany   2023   3,195,820   796   3   2024-29     Germany   2023   1,195,820   796   3   2024-29     India   2019   10,187,850   655   1   4     India   2021   10,187,850   655   1   4   4     India   2021   10,187,850   655   1   4			2 220 250				
France   2022   29,279,621   40,148     France   2023   1,007,943   22,690     France   2024   0   0   22,914   20   2024-27     Germany   2019   1,215   1,215   1,215   1,215   1,215   1,215   1,215   1,215   1,215   1,221   1,221   1,221   1,221   1,221   1,221   1,221   1,221   1,221   1,221   1,221   1,222   1,222   1,222   1,222   1,222   1,222   1,222   1,222   1,222   1,222   1,222   1,222   1,223   1,222 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
France   2023   1,007,943   22,690     France   2024   0   0   22,914   20   2024-27     Germany   2019   1,215       Germany   2021   5,353,865   29       Germany   2023   30,227,893   1,923       Germany   2023   31,195,820   796        Germany   2024   0   0   1,426   3   2024-29     India   2019    10,428        India   2021   24,598,952   5,128                                   .							
France   2024   0   22,914   20   2024-27     Germany   2019   1,215					-		
Germany   2019   1,215     Germany   2020   1,660,178   958     Germany   2021   5,353,865   29     Germany   2023   30,227,893   1,923     Germany   2023   1,195,820   796     Germany   2024   0   0   1,426   3   2024-29     India   2019   10,428   10				0	•	20	2024 27
Germany   2020   1,660,178   958     Germany   2021   5,353,865   29     Germany   2023   3,022,7,893   1,923     Germany   2023   1,195,820   796     Germany   2024   0   1,426   3   2024-29     India   2019   10,428   10,428   10,428     India   2021   24,598,952   5,128   5,128     India   2022   9,890,304   1,948   4     India   2022   380,066   3,282   4     India   2023   336,066   3,282   4     India   2024   208,020   574   1,796     Israel   2020   399,105   1,424     Israel   2021   365,663   456     Israel   2022   3,391,936   774     Israel   2024   0   1,053   0   2024-12     Italy   2024   0   0   1,053   0   <			U	U		20	2024-27
Germany   2021   5,353,865   29     Germany   2022   30,227,893   1,923     Germany   2024   0   0   1,426   3   2024-29     India   2019   10,187,850   655   10,428	•		1 660 170				
Germany   2022   30,227,893   1,923     Germany   2023   1,195,820   796     Germany   2024   0   0   1,426   3   2024-29     India   2019   10,428   1   2   1   1   2   1   1   2	•						
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Mexico 2023 362,826 7,666							
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Mexico 2024 9,269 1,347 8,285 298 2024-30							
	Mexico	2024	9,269	1,347	8,285	298	2024-30

Country	Year	Cases <sup>a,b</sup> of SARS-CoV-2	+/- since	Cases <sup>a</sup> of influenza	+/- since	Week of last influenza update
Netherlands	2019	SANS COV E	iuse monen	5,166	iuse monen	iiiiaciiza apaate
Netherlands	2020	773,198		3,235		
Netherlands	2021	2,312,304		471		
Netherlands	2022	5,480,565		14,864		
Netherlands	2023	64,963		10,932		
Netherlands	2024	8,132	1,364	11,642	34	2024-30
New Zealand	2019	-, -	,	1,011		
New Zealand	2020	1,789		0		
New Zealand	2021	11,740		0		
New Zealand	2022	2,014,452		0		
New Zealand	2023	412,394		631		
New Zealand	2024	194,872	8,626	383	161	2024-29
Philippines	2019	,	•	612		
Philippines	2020	469,003		52		
Philippines	2021	2,369,471		105		
Philippines	2022	1,220,895		260		
Philippines	2023	137,910		688		
Philippines	2024	8,183	0	91	18	2024-30
Poland	2019	-,		1,786		
Poland	2020	1,259,923		1,282		
Poland	2021	2,790,909		2		
Poland	2022	2,314,550		1,604		
Poland	2023	266,683		2,085		
Poland	2024	34,572	2,221	6,147	30	2024-30
South Africa	2019	,	•	1,164		
South Africa	2020	994,911		157		
South Africa	2021	2,413,026		413		
South Africa	2022	640,295		1,171		
South Africa	2023	24,404		1,024		
South Africa	2024	129	15	833	28	2024-30
South Korea	2019			1,702		
South Korea	2020	56,855		505		
South Korea	2021	554,812		0		
South Korea	2022	28,047,388		295		
South Korea	2023	5,912,818		2,586		
South Korea	2024	0	0	997	8	2024-30
Spain	2019			16,358		
Spain	2020	1,919,549		8,827		
Spain	2021	4,180,589		2,206		
Spain	2022	7,654,824		18,089		
Spain	2023	225,378		18,186		
Spain	2024	0	0	10,924	70	2024-30

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
Thailand	2019			1,568		
Thailand	2020	6,142		297		
Thailand	2021	2,203,829		23		
Thailand	2022	2,511,838		575		
Thailand	2023	40,567		1,717		
Thailand	2024	35,317	3,448	1,053	225	2024-30
United Kingdom	2019			42,447		
<b>United Kingdom</b>	2020	2,344,433		14,373		
<b>United Kingdom</b>	2021	10,230,346		2,755		
<b>United Kingdom</b>	2022	11,584,258		79,679		
<b>United Kingdom</b>	2023	706,222		44,146		
United Kingdom	2024	99,532	12,681	66,902	1,963	2024-30
United States	2019			268,524		
<b>United States</b>	2020	18,890,446		229,766		
<b>United States</b>	2021	32,988,414		39,507		
<b>United States</b>	2022	47,140,633		469,968		
<b>United States</b>	2023	4,417,336		176,909		
United States	2024	0	0	254,069	0	2024-21
Vietnam	2019			355		
Vietnam	2020	1,440		146		
Vietnam	2021	1,650,233		39		
Vietnam	2022	9,872,529		399		
Vietnam	2023	99,798		596		
Vietnam	2024	0	0	548	36	2024-29

<sup>&</sup>lt;sup>a</sup> Laboratory-confirmed cases.

<sup>&</sup>lt;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 [6]. The emergence of this new virus has had a major impact on the global circulation of respiratory viruses, including influenza and RSV [1]. 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) [7].

#### **Data sources**

- Influenza: FluNet [8] 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 [9]. 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 [10].
- Government response tracker: The Oxford COVID-19 Government Response Tracker (OxCGRT) [7] 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 5 August 2024 and cover the period 1 January 2019 to 28 July 2024 (influenza) and 21 July 2024 (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 <a href="mailto:flucov@nivel.nl">flucov@nivel.nl</a>.

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#### **Websites**

Project Website: <a href="https://www.nivel.nl/en/flucov">https://www.nivel.nl/en/flucov</a>

FluCoV Dashboard: https://www.nivel.nl/en/dossier-epidemiology-respiratory-viruses/flucov-dashboard

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