



# NATIONAL WEEKLY INFLUENZA BULLETIN OF THE RUSSIAN FEDERATION

*week 20 of 2021*  
*(17.05.21 - 23.05.21)*

## Summary.

**Influenza and ARI incidence data.** Influenza and other ARI activity decreased in Russia in comparison with previous week. The nationwide ILI and ARI morbidity level (36.6 per 10 000 of population) was lower than national baseline (70.04) by 47.7%.

**Etiology of ILI & ARI.** Among 2381 investigated patients no respiratory samples positive for influenza detected.

**Antigenic characterization.** Two influenza B viruses were characterized antigenically from the beginning of the season, viruses were belonged Victoria line and were closely related to reference strain B/Washington/02/2019.

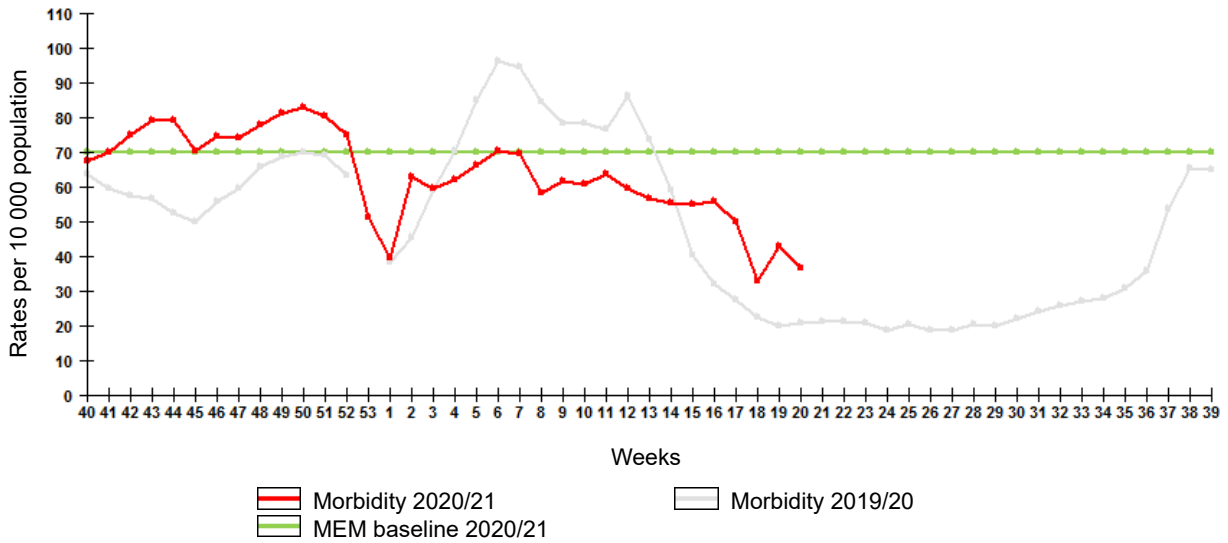
**ARVI detections.** The overall proportion of respiratory samples tested positive for other ARVI (PIV, ADV, RSV, RhV, CoV, MPV, BoV) was estimated in total as **18.2%** (PCR).

**In sentinel surveillance system** clinical samples from 40 SARI and 21 ILI/ARI patients were investigated by rRT-PCR, among them no influenza cases recognized. Among 35 SARI patients 4 (**11.4%**) cases were positive for ARVI, including 2 cases of PIV, one case of ADV and one case of BoV infection. Among 17 ILI/ARI patients 7 (**41.2%**) cases were positive for ARVI, including one case of ADV, one case of RSV and 5 cases of RhV infection. 9 (**23.1%**) of 39 SARI cases were positive for coronavirus SARS-CoV-2. Among 21 ILI/ARI patients no cases positive for coronavirus SARS-CoV-2 recognized.

**COVID-2019.** Totally 5 035 207 cases and 120 002 deaths associated with COVID-2019 were registered in Russia including 9 039 cases and 402 deaths in last 24 hours (on 12:00 of 27.05.2021). According to the data obtained by NIC in Saint-Petersburg totally 9008 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 1280 (**14.2%**) cases.

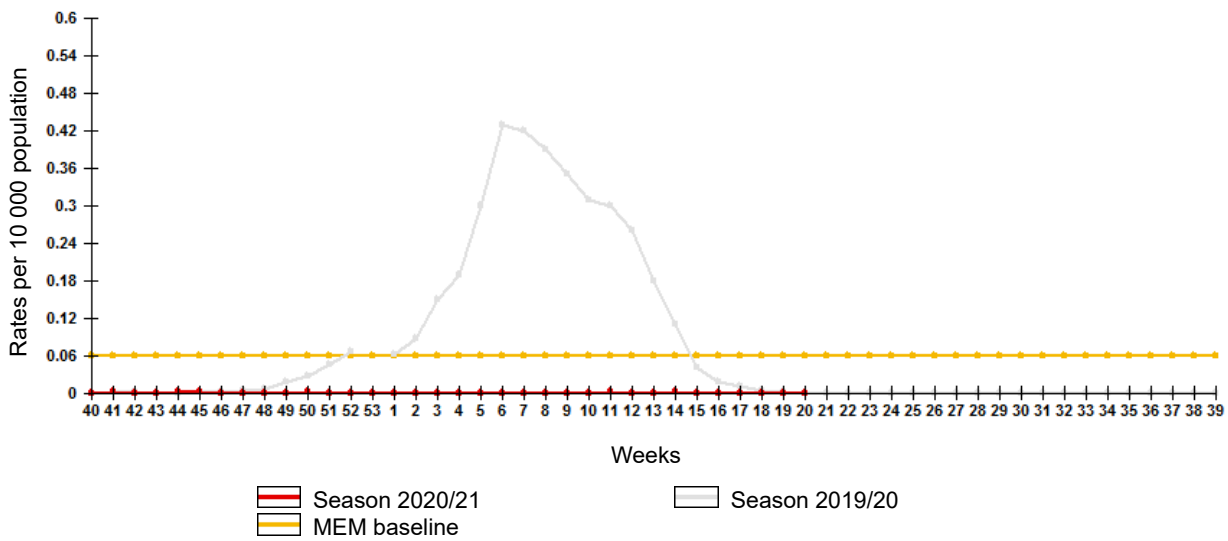
# Influenza and ARI morbidity data

Fig. 1. Influenza and ARI morbidity in 61 cities under surveillance in Russia, seasons 2019/20 and 2020/21



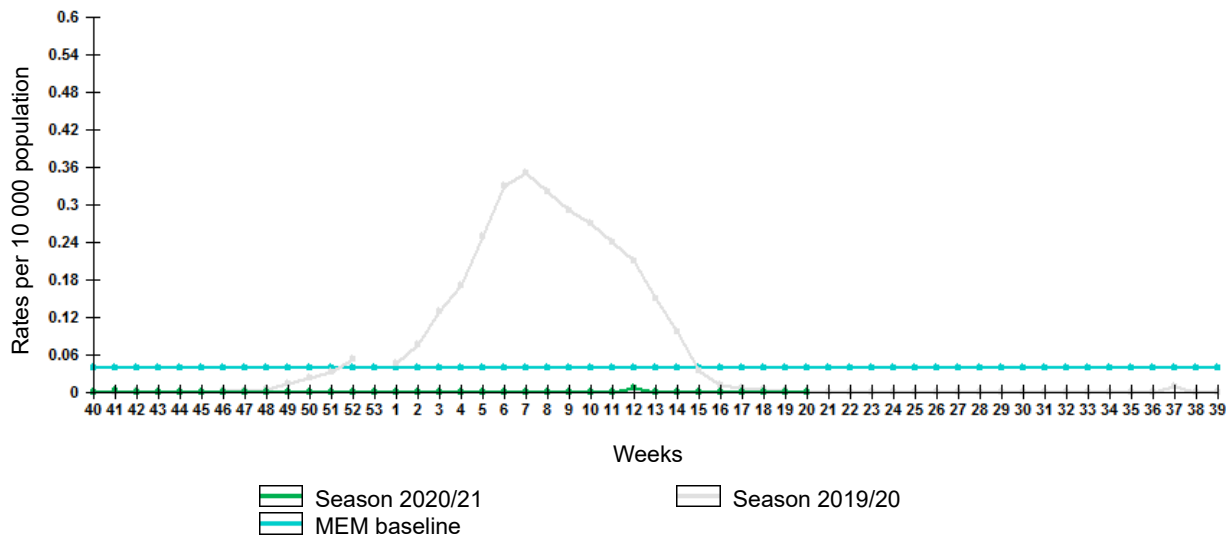
Epidemiological data showed decrease of influenza and other ARI activity in Russia in comparison with previous week. The nationwide ILI and ARI morbidity level (36.6 per 10 000 of population) was lower than national baseline (70.04) by 47.7%.

Fig. 2. Comparative data on incidence rate of clinically diagnosed influenza, seasons 2019/20 and 2020/21



Incidence rate of clinically diagnosed influenza decreased comparing to previous week and amounted to 0.00018 per 10 000 of population, it was significantly lower than pre-epidemic MEM baseline (0.060).

Fig. 3. Comparison of hospitalization rate with clinical diagnosis of influenza, seasons 2019/20 and 2020/21



Hospitalization rate of clinically diagnosed influenza remained at the same level comparing to previous week and amounted to 0.00018 per 10 000 of population, it was significantly lower than pre-epidemic MEM baseline (0.040).

## Influenza and ARVI laboratory testing results

Cumulative results of influenza laboratory diagnosis by rRT-PCR were submitted by 41 RBLs and two WHO NICs. According to these data as a result of 2381 patients investigation no respiratory samples positive for influenza were detected.

Fig. 4. Geographic distribution of RT-PCR detected influenza viruses in cities under surveillance in Russia, week 20 of 2021

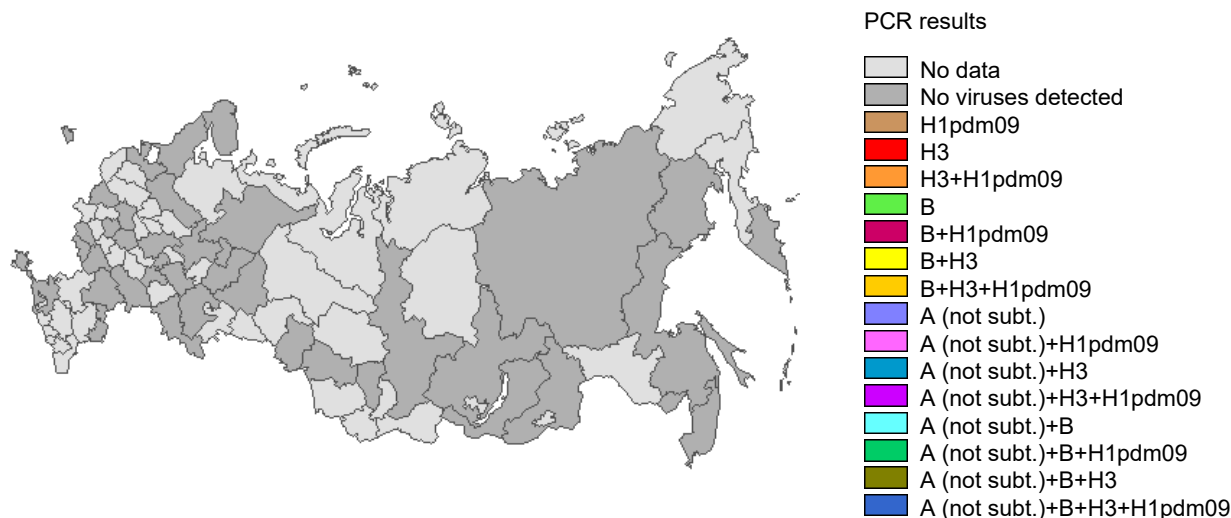


Fig. 5. Monitoring of influenza viruses detection by RT-PCR in Russia, season 2020/21

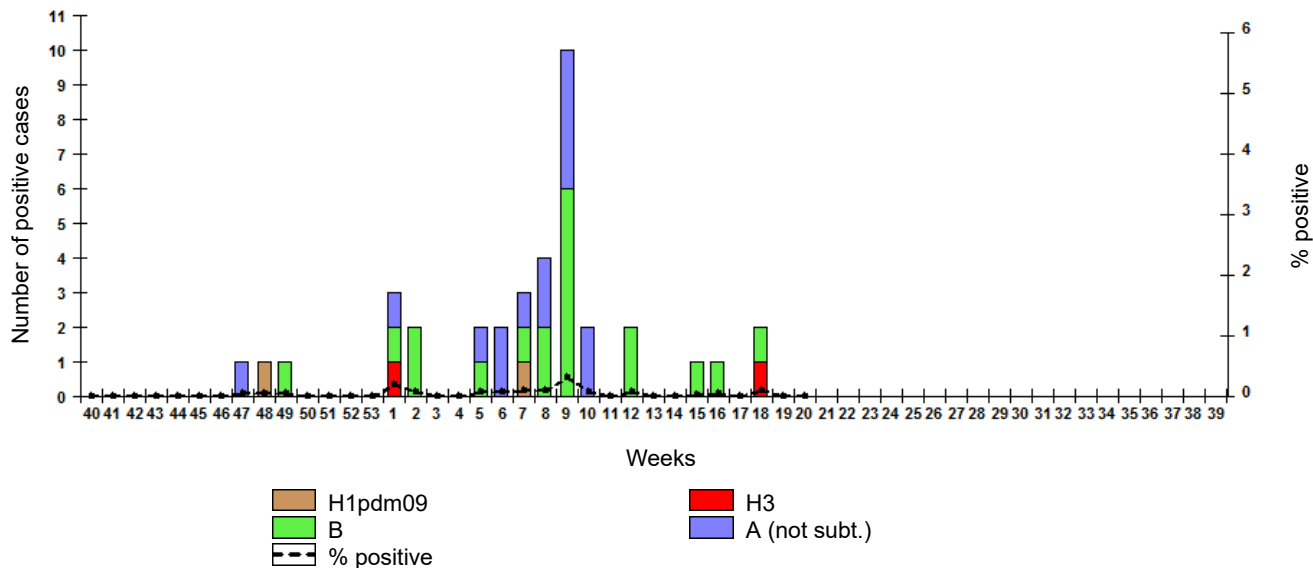
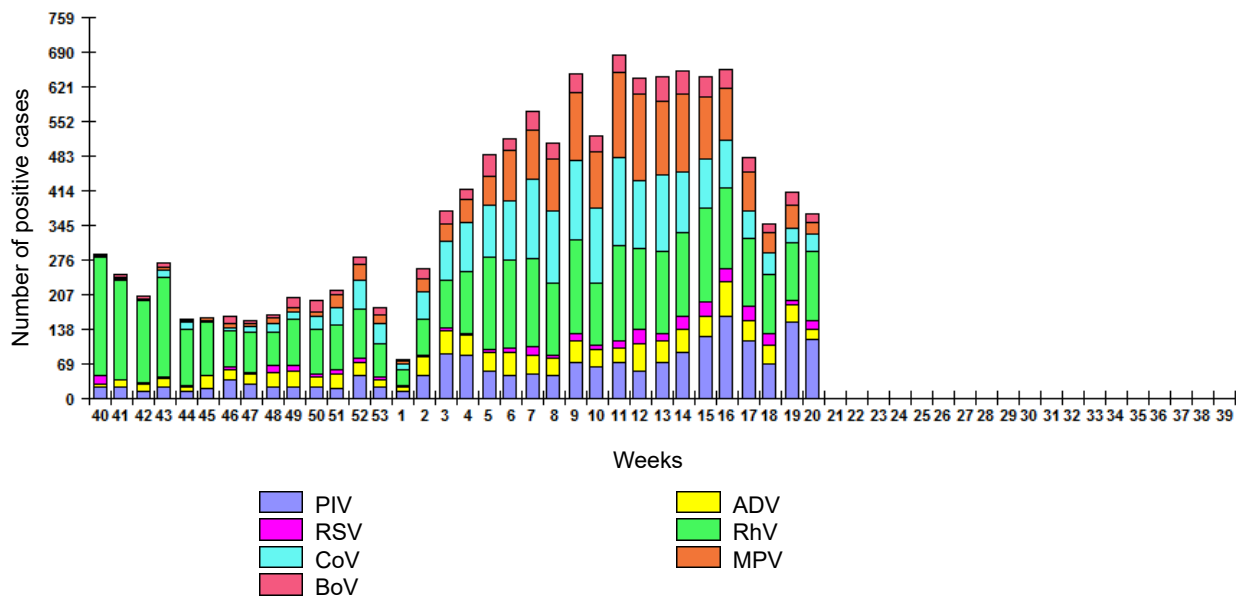


Fig. 6. Monitoring of ARVI detection by RT-PCR in Russia, season 2020/21



**ARVI detections.** The overall proportion of respiratory samples tested positive for other ARVI (PIV, ADV, RSV, RhV, CoV, MPV, BoV) estimated as **18.2%** of investigated samples by PCR.

Fig. 7. Monitoring of influenza viruses isolation in Russia, season 2020/21

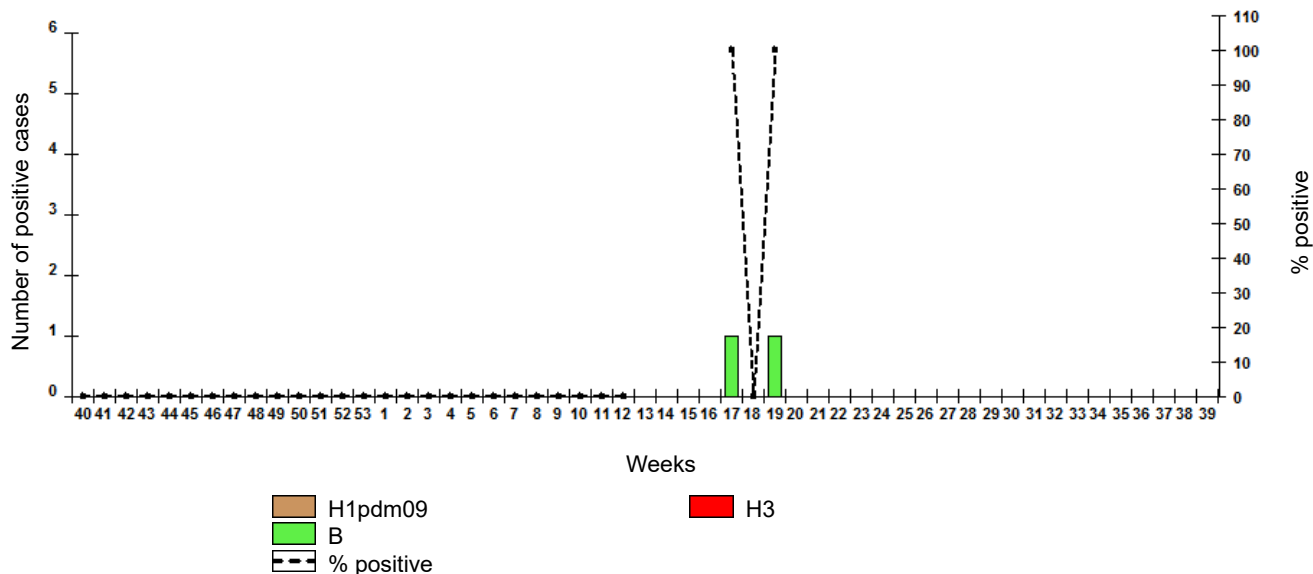


Table 1. Results of influenza and other ARVI detection by RT-PCR in Russia, week 20 of 2021

	Number of specimens / number of positive cases	% positive
<u>Influenza</u>		
Number of specimens tested for influenza	2381	-
Influenza A (not subt.)	0	0,0%
Influenza A(H1)pdm09	0	0,0%
Influenza A(H3)	0	0,0%
Influenza B	0	0,0%
All influenza	0	0,0%
<u>Other ARVI</u>		
Number of specimens tested for ARVI	2021	-
PIV	117	5,8%
ADV	20	1,0%
RSV	17	0,8%
RhV	138	6,8%
CoV	35	1,7%
MPV	24	1,2%
BoV	17	0,8%
All ARVI	368	18,2%
<u>SARS-CoV-2 (COVID-19)</u>		
Number of specimens tested for SARS-CoV-2	9008	-
SARS-CoV-2	1280	14,2%

Fig. 8. Results of PCR detections of SARS-CoV-2 in Russia



**COVID-2019.** Totally 5 035 207 cases and 120 002 deaths associated with COVID-2019 were registered in Russia including 9 039 cases and 402 deaths in last 24 hours (on 12:00 of 27.05.2021). According to the data obtained by NIC in Saint-Petersburg totally 9008 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 1280 (14.2%) cases.

Table 2. Results of influenza viruses isolation in Russia, week 20 of 2021

	Number of specimens / number of viruses	% isolated viruses
Number of specimens	0	-
Influenza A(H1)pdm09	0	%
Influenza A(H3)	0	%
Influenza B	0	%
All influenza	0	%

## Sentinel influenza surveillance

Clinical samples from 40 SARI patients were investigated by rRT-PCR for influenza, among them no influenza cases recognized. 35 SARI patients were investigated for ARVI by rRT-PCR, among them 4 (11.4%) cases were positive for ARVI, including 2 cases of PIV, one case of ADV and one case of BoV infection. 9 (23.1%) of 39 SARI patients were positive for coronavirus SARS-CoV-2.

Clinical samples from 21 ILI/ARI patients were investigated for influenza and ARVI by rRT-PCR, among them no influenza cases recognized. 7 (41.2%) of 17 ILI/ARI cases were positive for ARVI, including one case of ADV, one case of RSV and 5 cases of RhV infection. None of 21 ILI/ARI patients were positive for SARS-CoV-2.

Fig. 9. Monitoring of influenza viruses detection by RT-PCR among SARI patients in sentinel hospitals, season 2020/21

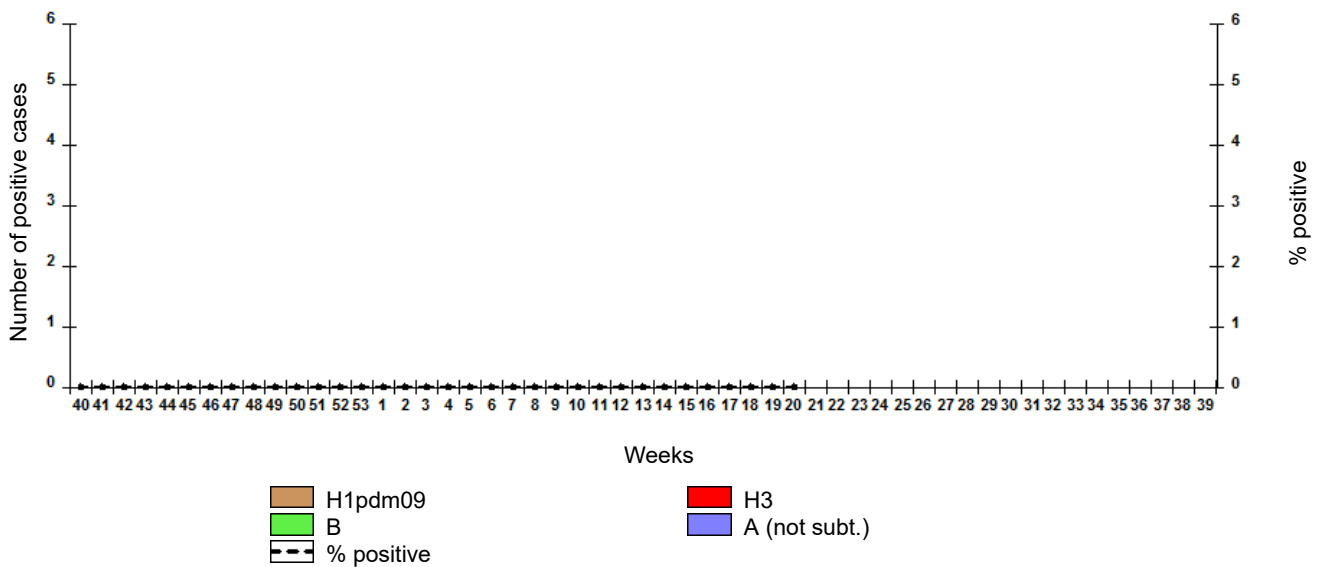


Fig. 10. Monitoring of influenza viruses detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2020/21

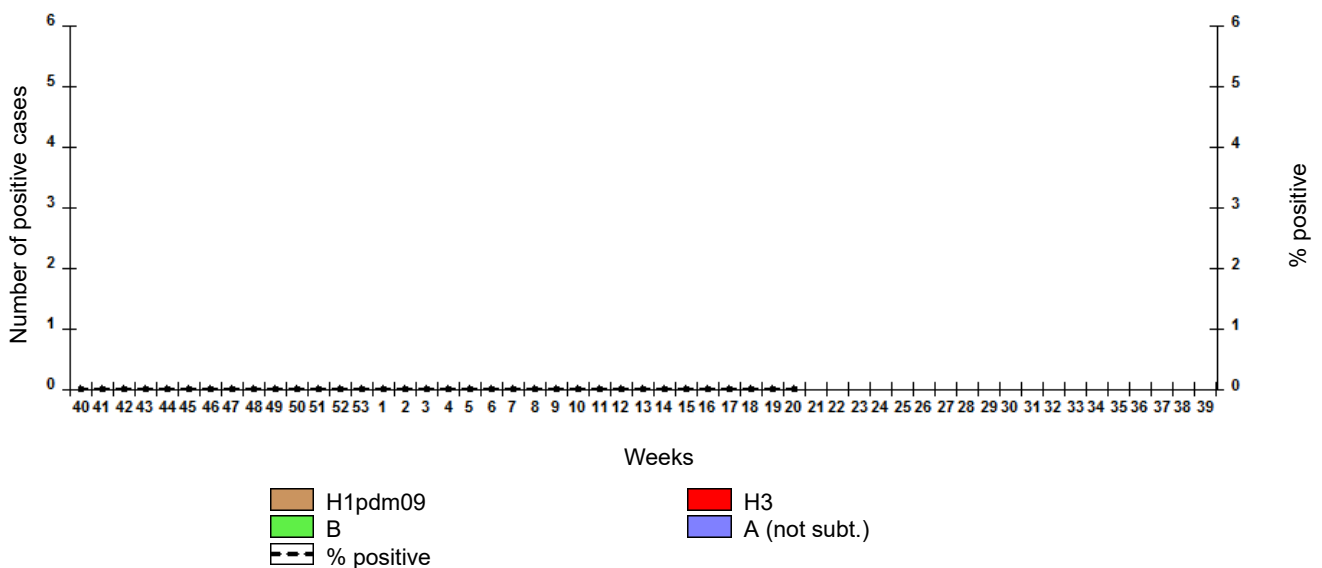


Fig. 11. Monitoring of ARVI detection by RT-PCR among SARI patients in sentinel hospitals, season 2020/21

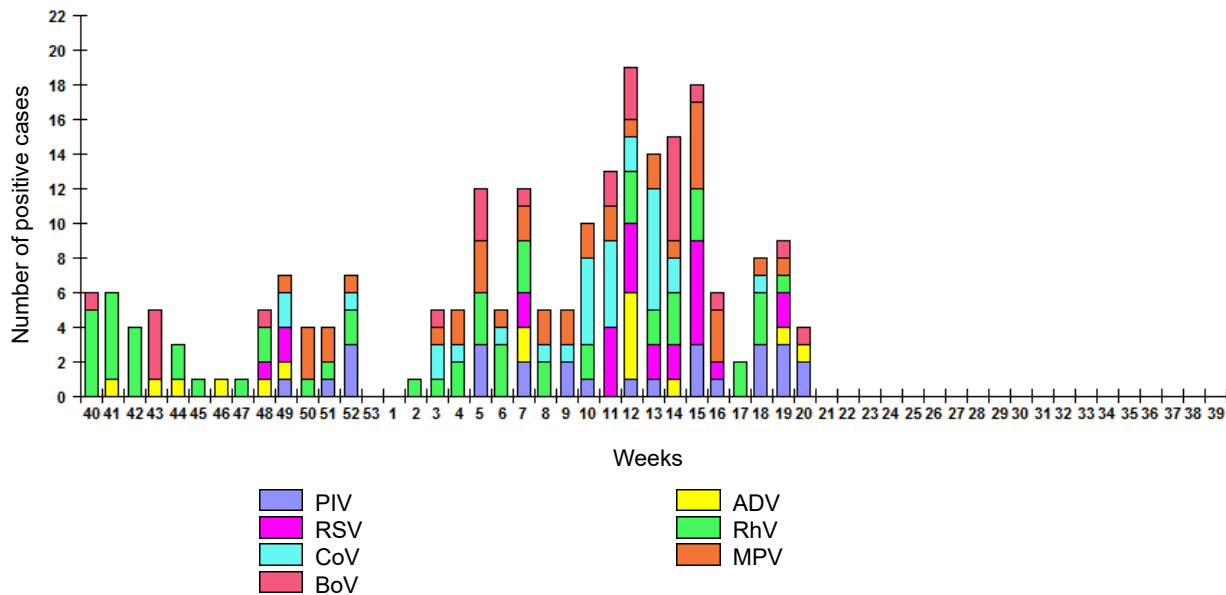


Fig. 12. Monitoring of ARVI detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2020/21

