



NATIONAL WEEKLY INFLUENZA BULLETIN OF THE RUSSIAN FEDERATION

week 41 of 2022
(10.10.22 - 16.10.22)

Summary.

Influenza and ARI incidence data. Influenza and other ARI activity decreased of influenza and other ARI activity in Russia in comparison with previous week. The nationwide ILI and ARI morbidity level (68.2 per 10 000 of population) was lower than national baseline (70.0) by 2.6%.

Etiology of ILI & ARI. Among 2738 patients investigation 3 (0.1%) respiratory samples positive for influenza, including 2 cases of influenza A(H1N1)pdm09 in 2 cities and 1 case of influenza A(H3N2) in 1 city.

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 17.1% (PCR).

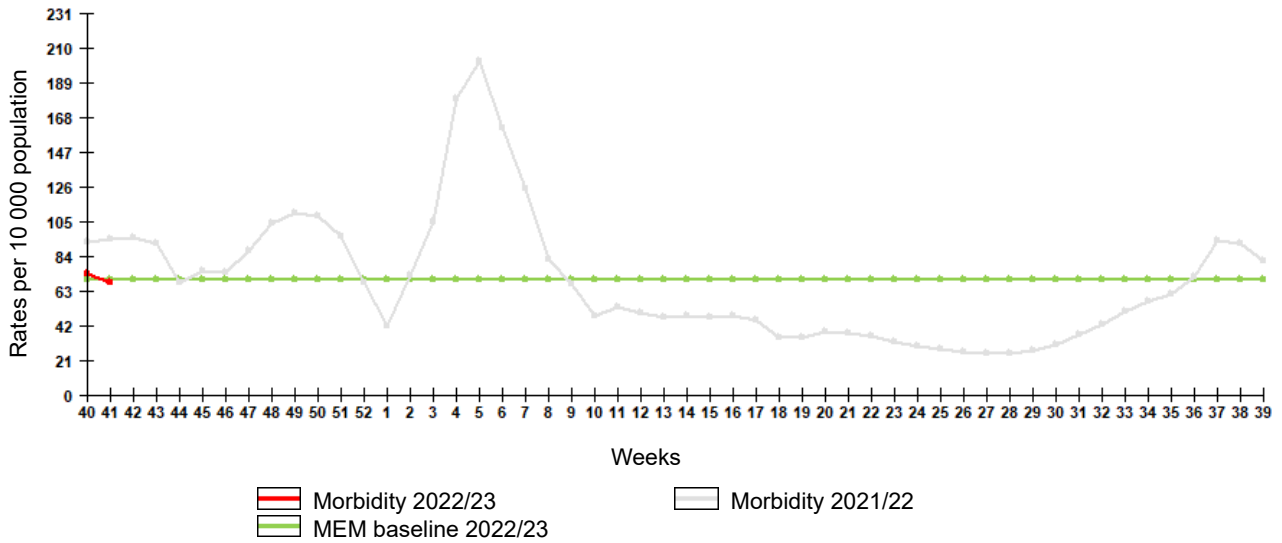
In sentinel surveillance system Clinical samples from 58 SARI patients were investigated by rRT-PCR for influenza, among them 1 (1.8%) case of influenza A(H1N1)pdm09 recognized. 47 SARI patients were investigated for ARVI by rRT-PCR, among them 5 (10.6%) cases of ARVI recognized including one case of RSV and 4 cases of RhV infection. 2 (3.5%) of 57 SARI patients were positive for coronavirus SARS-CoV-2.

Clinical samples from 39 ILI/ARI patients were investigated for influenza by rRT-PCR, among them no positive cases recognized. Among 30 ILI/ARI samples 10 (33.3%) cases positive for ARVI detected including 2 cases of PIV, 1 case of ADV, 4 cases of RhV infection, 1 case of CoV and 2 cases of MPV. 39 ILI/ARI patients were investigated for SARS-CoV-2 by rRT-PCR, among them 2 (5.1%) cases of coronavirus SARS-CoV-2 recognized.

COVID-19. Totally 21 335 087 cases and 389 176 deaths associated with COVID-19 were registered in Russia including 10 656 cases and 92 deaths in last 24 hours (on 12:00 of 19.10.2022). According to the data obtained by NIC in Saint-Petersburg totally 14 043 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 1617 (11.5%) cases.

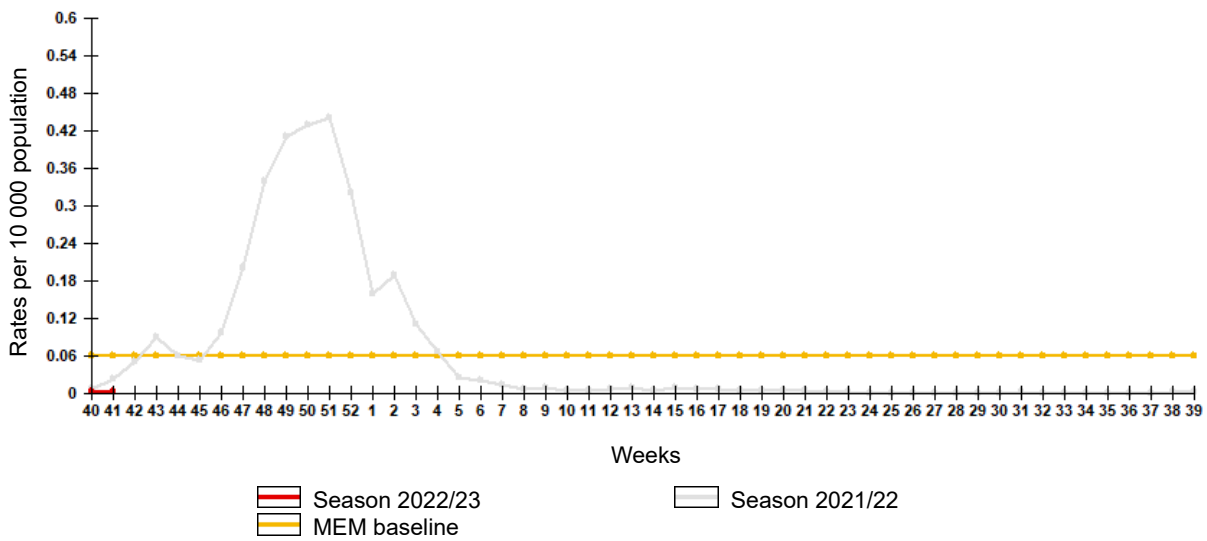
Influenza and ARI morbidity data

Fig. 1. Influenza and ARI morbidity in 61 cities under surveillance in Russia, seasons 2021/22 and 2022/23



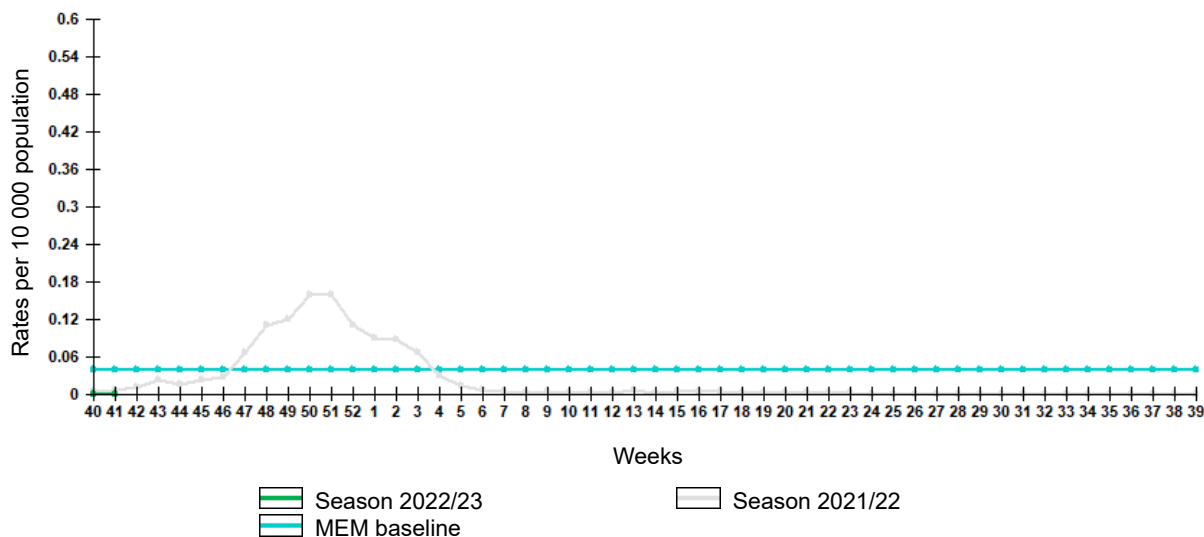
Epidemiological data showed decrease of influenza and other ARI activity in Russia in comparison with previous week. The nationwide IRI and ARI morbidity level (68.2 per 10 000 of population) was lower than national baseline (70.0) by 2.6%.

Fig. 2. Comparative data on incidence rate of clinically diagnosed influenza, seasons 2021/22 and 2022/23



Incidence rate of clinically diagnosed influenza decreased comparing to previous week and amounted to 0.0015 per 10 000 of population, it was much lower than pre-epidemic MEM baseline (0.060).

Fig. 3. Comparison of hospitalization rate with clinical diagnosis of influenza, seasons 2021/22 and 2022/23



Hospitalization rate of clinically diagnosed influenza increased comparing to previous week and amounted to 0.00092 per 10 000 of population, it was much 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 44 RBLs and two WHO NICs. According to these data as a result of 2738 patients investigation 3 (0.1%) respiratory samples positive for influenza, including 2 cases of influenza A(H1N1)pdm09 in 2 cities and 1 case of influenza A(H3N2) in 1 city.

Fig. 4. Geographic distribution of RT-PCR detected influenza viruses in cities under surveillance in Russia, week 41 of 2022

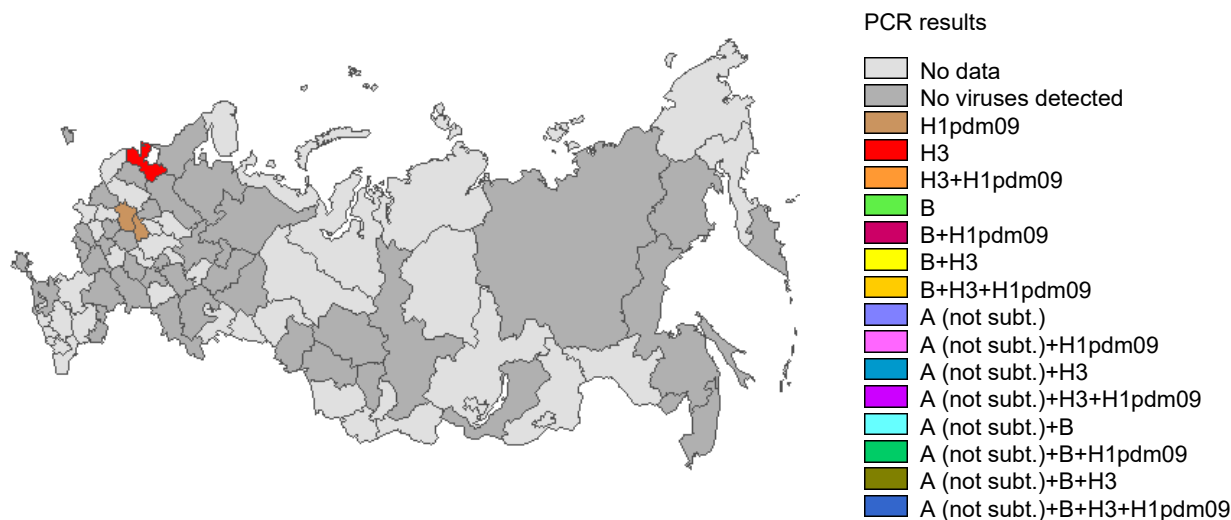


Fig. 5. Monitoring of influenza viruses detection by RT-PCR in Russia, season 2022/23

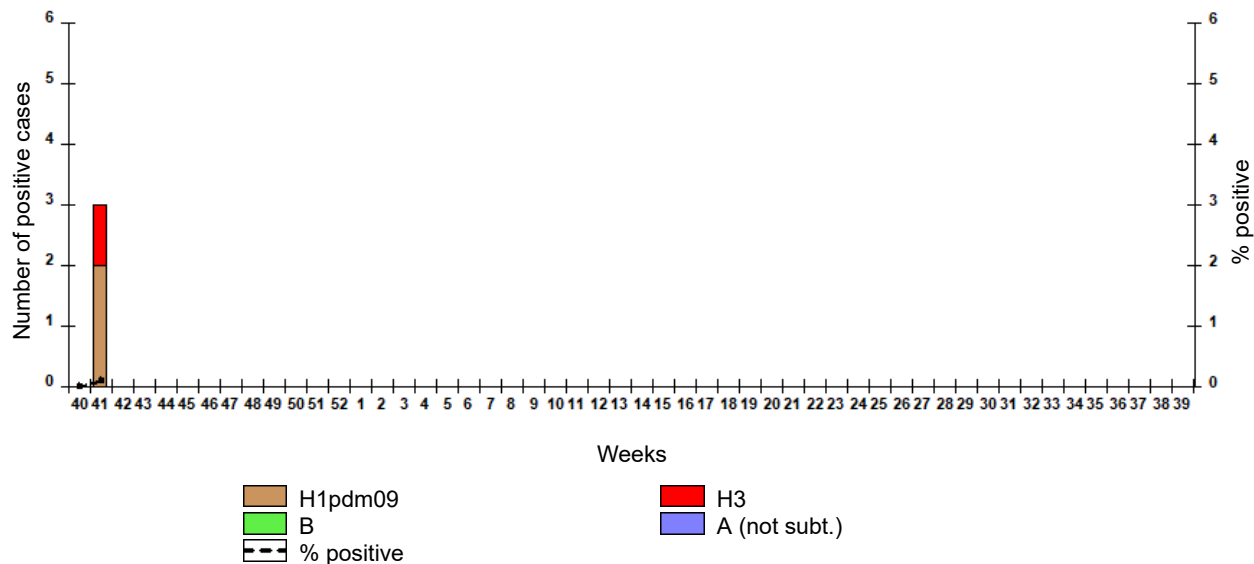
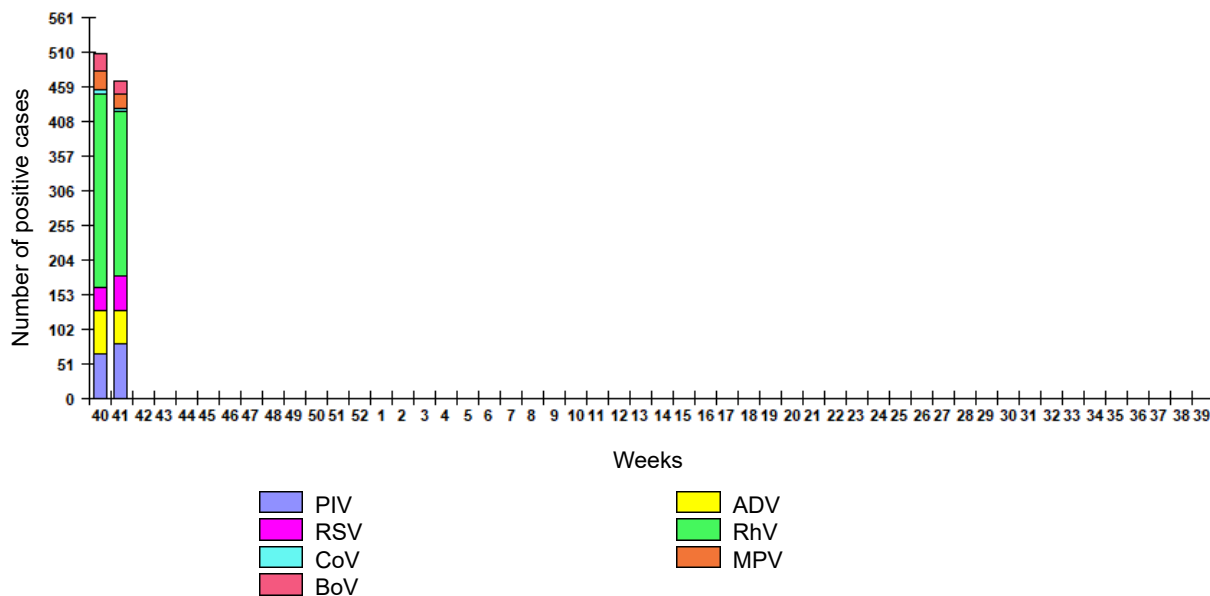


Fig. 6. Monitoring of ARVI detection by RT-PCR in Russia, season 2022/23



ARVI detections. The overall proportion of respiratory samples tested positive for other ARVI (PIV, ADV, RSV, RhV, CoV, MPV, BoV) estimated as 17.1% of investigated samples by PCR.

Fig. 7. Monitoring of influenza viruses isolation in Russia, season 2022/23

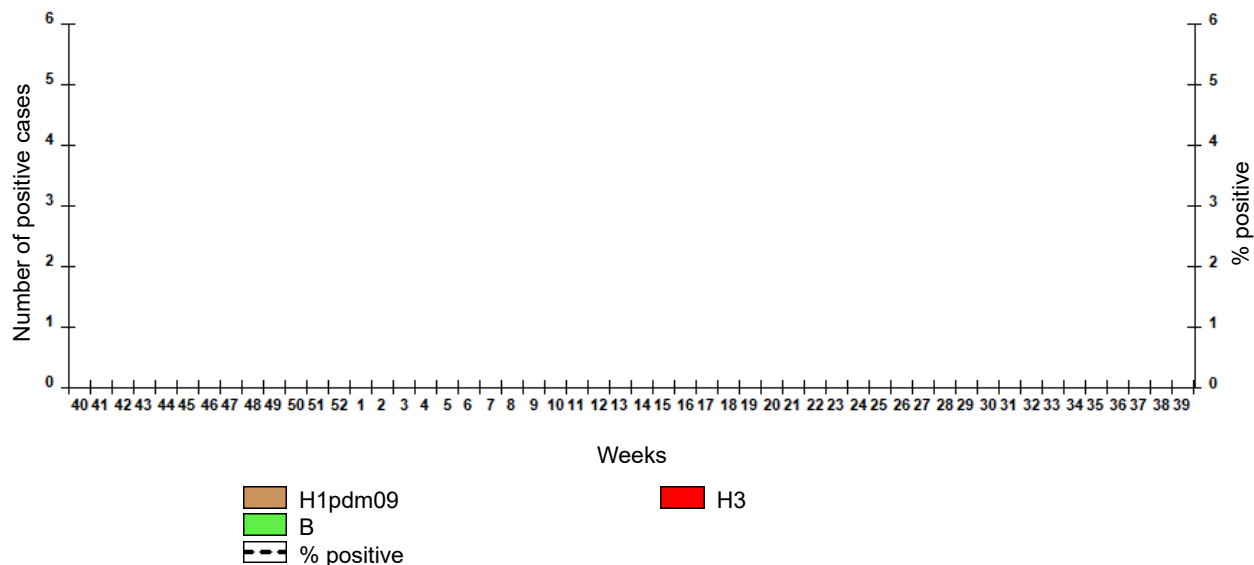


Table 1. Results of influenza and other ARVI detection by RT-PCR in Russia, week 41 of 2022

	Number of specimens / number of positive cases	% positive
<u>Influenza</u>		
Number of specimens tested for influenza	2738	-
Influenza A (not subt.)	0	0,0%
Influenza A(H1)pdm09	2	0,07%
Influenza A(H3)	1	0,04%
Influenza B	0	0,0%
All influenza	3	0,1%
<u>Other ARVI</u>		
Number of specimens tested for ARVI	2715	-
PIV	80	2,9%
ADV	49	1,8%
RSV	50	1,8%
RhV	242	8,9%
CoV	4	0,1%
MPV	21	0,8%
BoV	19	0,7%
All ARVI	465	17,1%
<u>SARS-CoV-2 (COVID-19)</u>		
Number of specimens tested for SARS-CoV-2	14043	-
SARS-CoV-2	1617	11,5%

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



COVID-19. Totally 21 335 087 cases and 389 176 deaths associated with COVID-19 were registered in Russia including 10 656 cases and 92 deaths in last 24 hours (on 12:00 of 19.10.2022). According to the data obtained by NIC in Saint-Petersburg totally 14 043 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 1617 (**11.5%**) cases.

Table 2. Results of influenza viruses isolation in Russia, week 41 of 2022

	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 58 SARI patients were investigated by rRT-PCR for influenza, among them 1 (1.8%) case of influenza A(H1N1)pdm09 recognized. 47 SARI patients were investigated for ARVI by rRT-PCR, among them 5 (10.6%) cases of ARVI recognized including one case of RSV and 4 cases of RhV infection. 2 (3.5%) of 57 SARI patients were positive for coronavirus SARS-CoV-2.

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Fig. 9. Monitoring of influenza viruses detection by RT-PCR among SARI patients in sentinel hospitals, season 2022/23

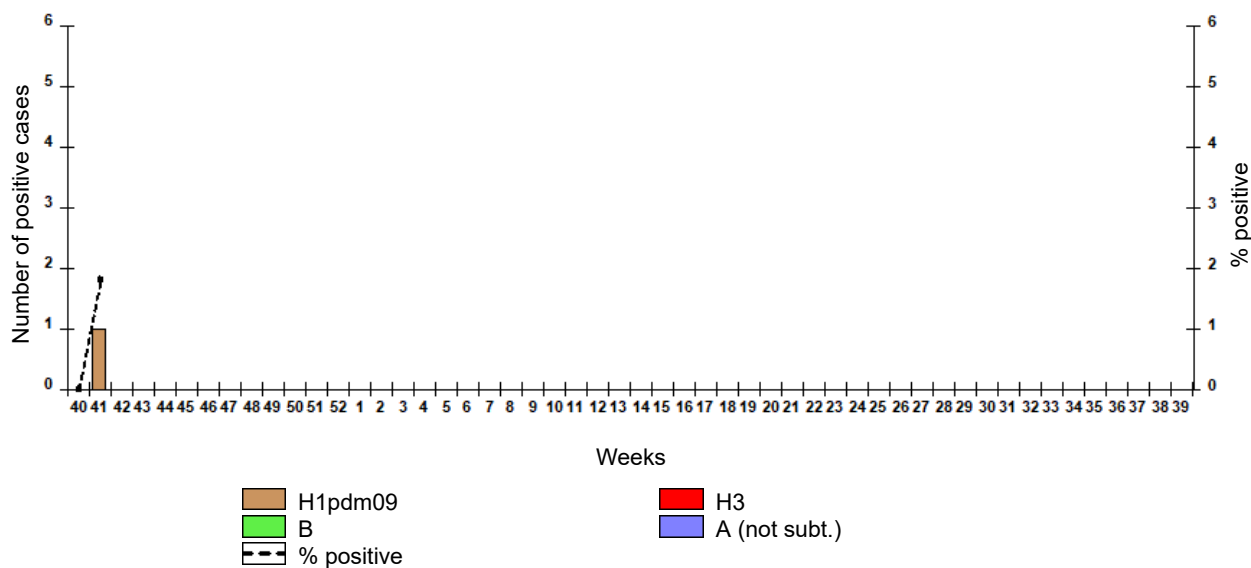


Fig. 10. Monitoring of influenza viruses detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2022/23

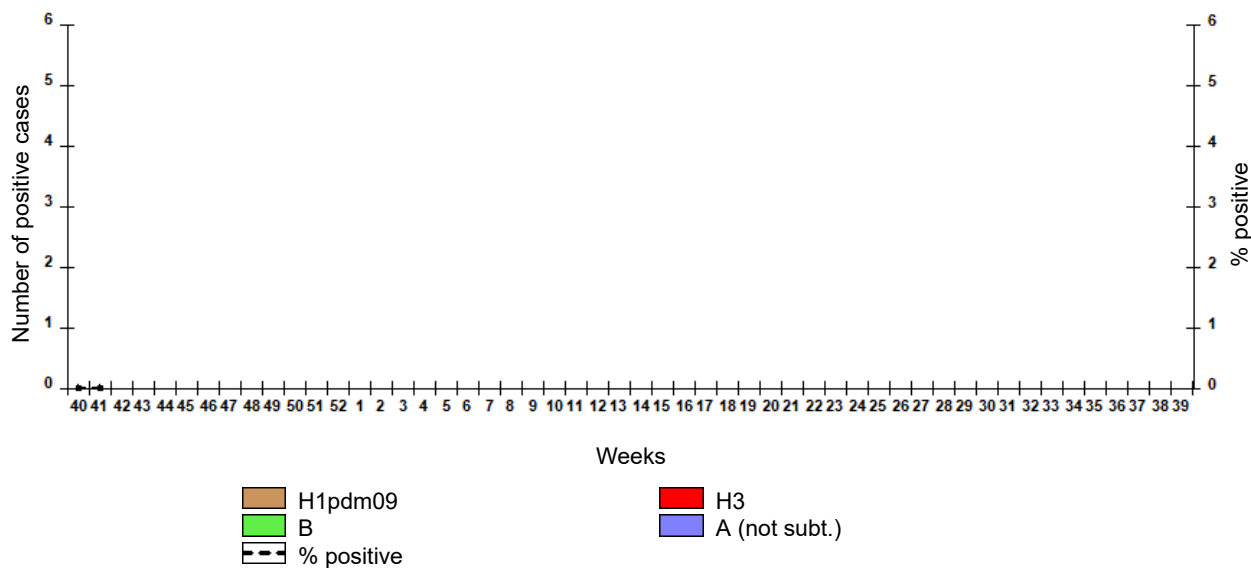


Fig. 11. Monitoring of ARVI detection by RT-PCR among SARI patients in sentinel hospitals, season 2022/23

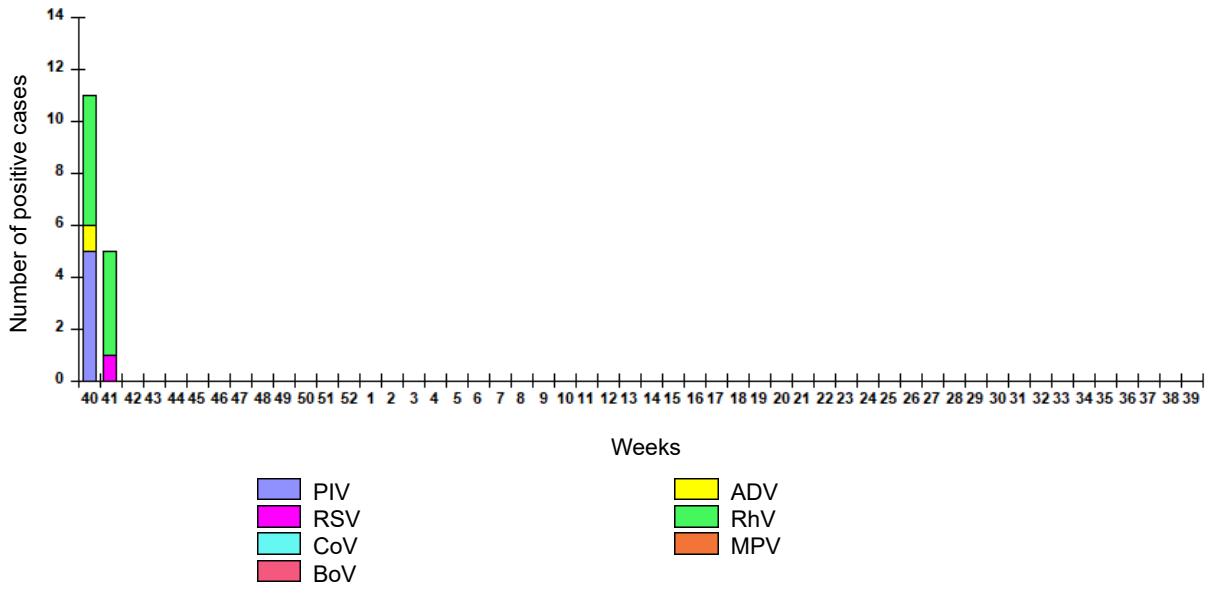


Fig. 12. Monitoring of ARVI detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2022/23

