NATIONAL WEEKLY INFLUENZA BULLETIN OF THE RUSSIAN FEDERATION

week 43 of 2022
(24.10.22 - 30.10.22)

Summary

Influenza and ARI incidence data. Influenza and other ARI activity decrease of influenza and other ARI activity in Russia in comparison with previous week. The nationwide ILI and ARI morbidity level (65.5 per 10 000 of population) was lower than national baseline (70.0) by 6.4%.

Etiology of ILI & ARI. Among 3032 patients investigation 5 (**0.2%**) respiratory samples positive for influenza, including 1 case of A unsubtyped in 1 city and 4 cases of influenza A(H1N1)pdm09 in 2 cities.

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 **19.5%** (PCR).

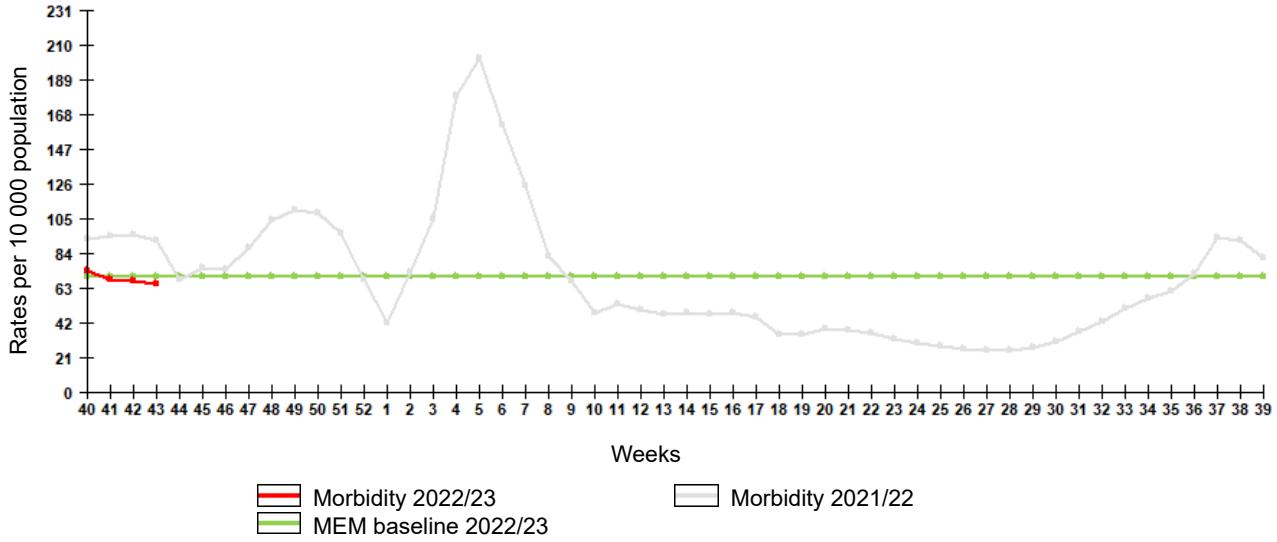
In sentinel surveillance system clinical samples from 63 SARI patients were investigated by rRT-PCR for influenza, among them 1 (**1.6%**) case of A unsubtyped influenza recognized. 53 SARI patients were investigated for ARVI by rRT-PCR, among them 16 (**30.2%**) cases of ARVI recognized including 1 case of AdV, 1 case of RSV, 9 cases of RhV, 2 cases of CoV, 2 cases of MPV and 1 case of BoV infection. 2 (**3.2%**) of 63 SARI patients were positive for coronavirus SARS-CoV-2.

Clinical samples from 25 ILI/ARI patients were investigated for influenza by rRT-PCR, among them no positive cases recognized. Among 20 ILI/ARI samples 6 (**30.0%**) cases positive for ARVI detected including 5 cases of RhV infection and 1 case of BoV. 25 ILI/ARI patients were investigated for SARS-CoV-2 by rRT-PCR, among them no positive cases recognized.

COVID-19. Totally 21 441 143 cases and 390 315 deaths associated with COVID-19 were registered in Russia including 6 385 cases and 68 deaths in last 24 hours (on 12:00 of 02.11.2022). According to the data obtained by NIC in Saint-Petersburg totally 11 468 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 878 (**7.7%**) cases.

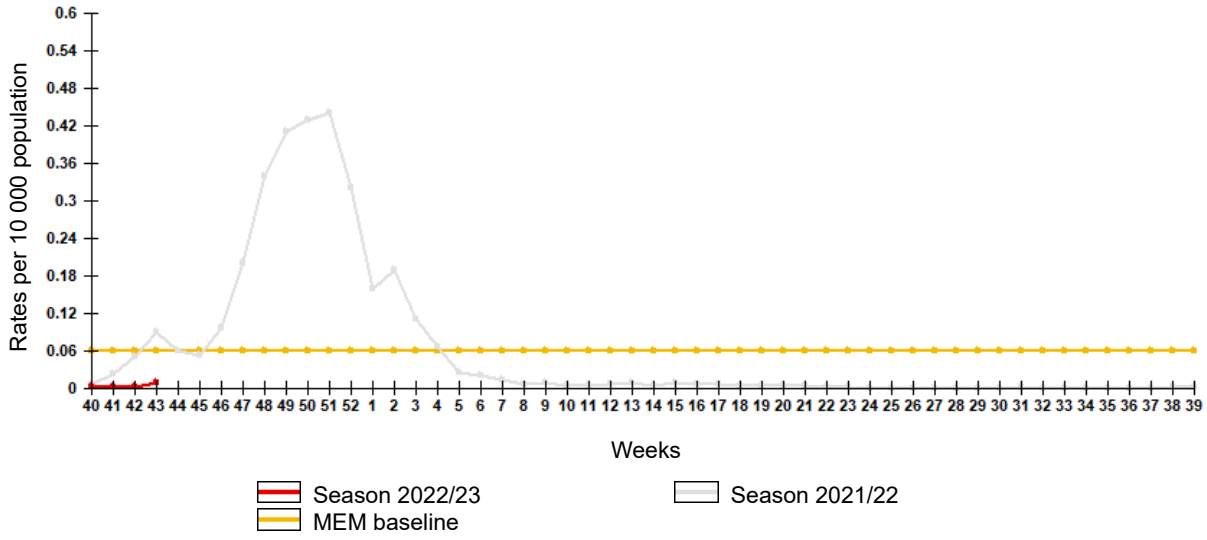
Influenza and ARI morbidity data

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



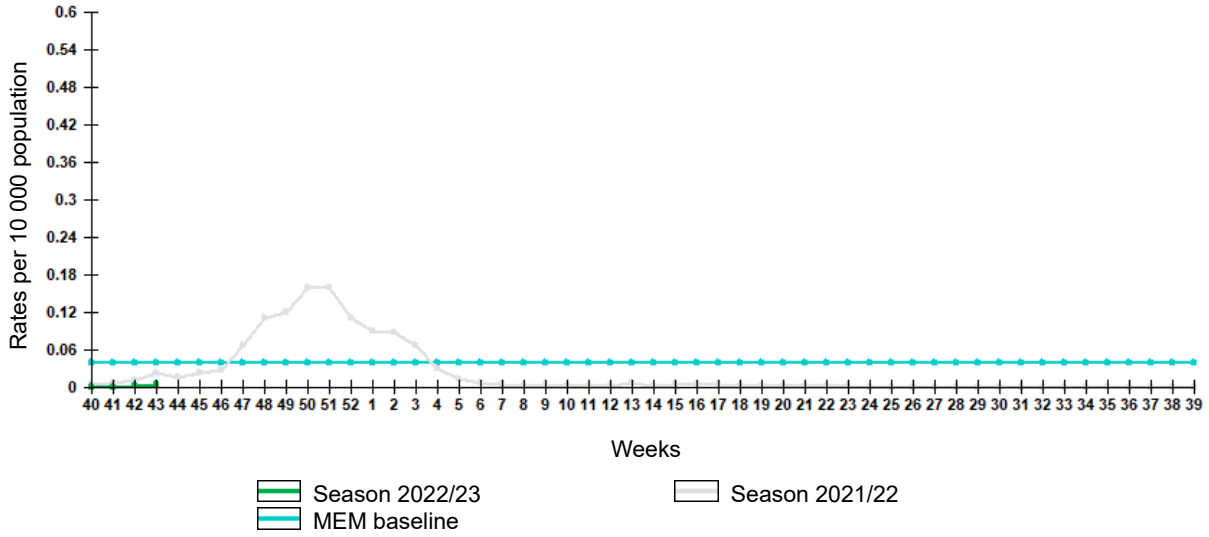
Epidemiological data showed decrease of influenza and other ARI activity in Russia in comparison with previous week. The nationwide ILI and ARI morbidity level (65.5 per 10 000 of population) was lower than national baseline (70.0) by 6.4%.

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



Incidence rate of clinically diagnosed influenza increased comparing to previous week and amounted to 0.0083 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 0.0035 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 45 RBLs and two WHO NICs. According to these data as a result of 3032 patients investigation 5 (**0.2%**) respiratory samples were positive for influenza, including 1 case of A unsubtyped in 1 city and 4 cases of influenza A(H1N1)pdm09 in 2 cities.

Fig. 4. Geographic distribution of RT-PCR detected influenza viruses in cities under surveillance in Russia, week 43 of 2022

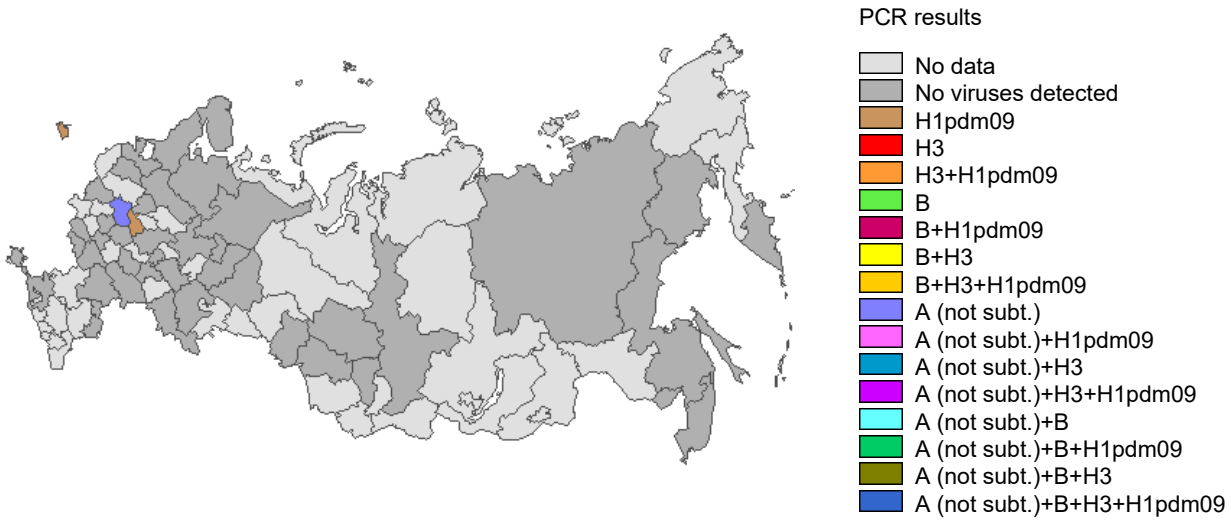


Fig. 5. Monitoring of influenza viruses detection by RT-PCR in Russia, season 2022/23

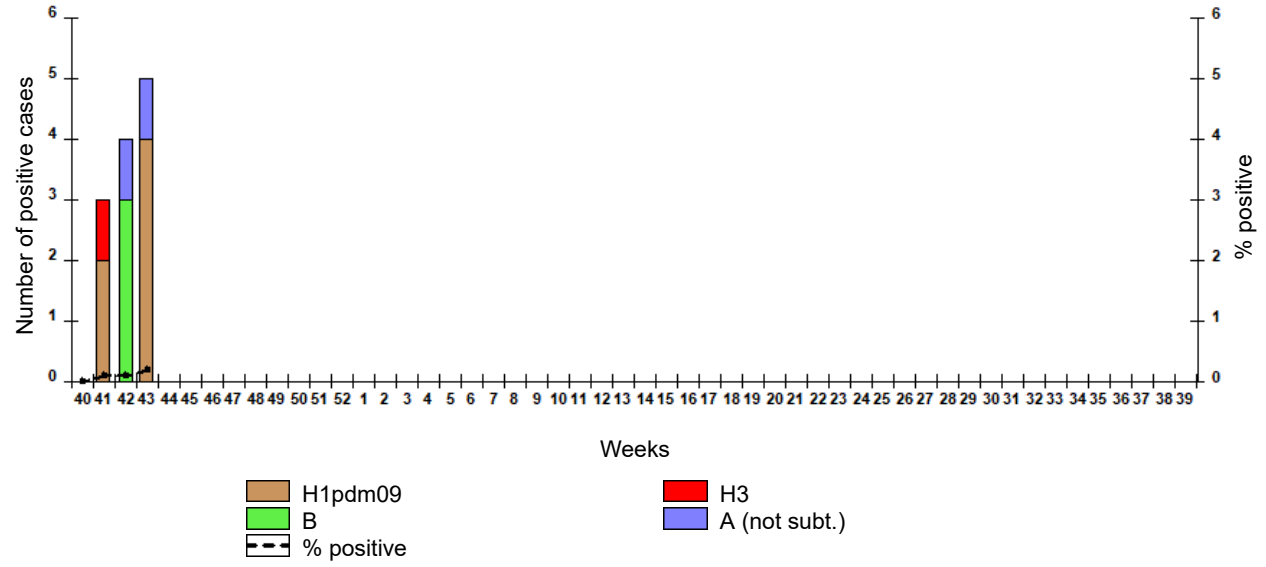
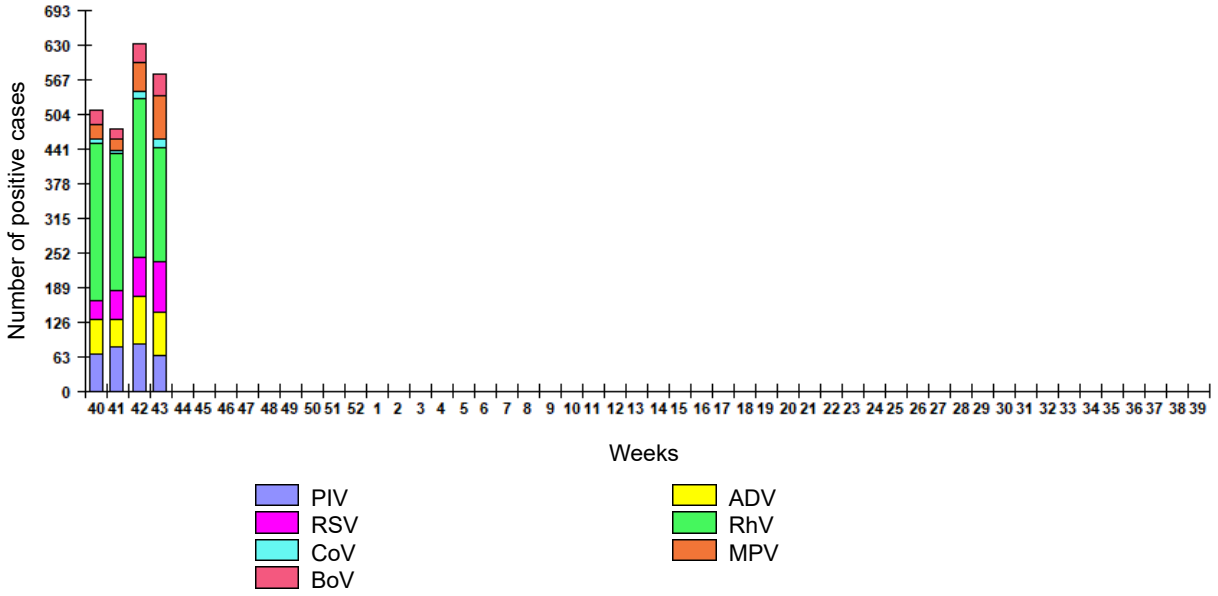


Fig. 6. Monitoring of ARVI detection by RT-PCR in Russia, season 2022/23



ARVI detections. The overall proportion of respiratory samples tested positive for other ARVI (PIV, ADV, RSV, RhV, CoV, MPV, BoV) estimated as **19.5%** of investigated samples by PCR.

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

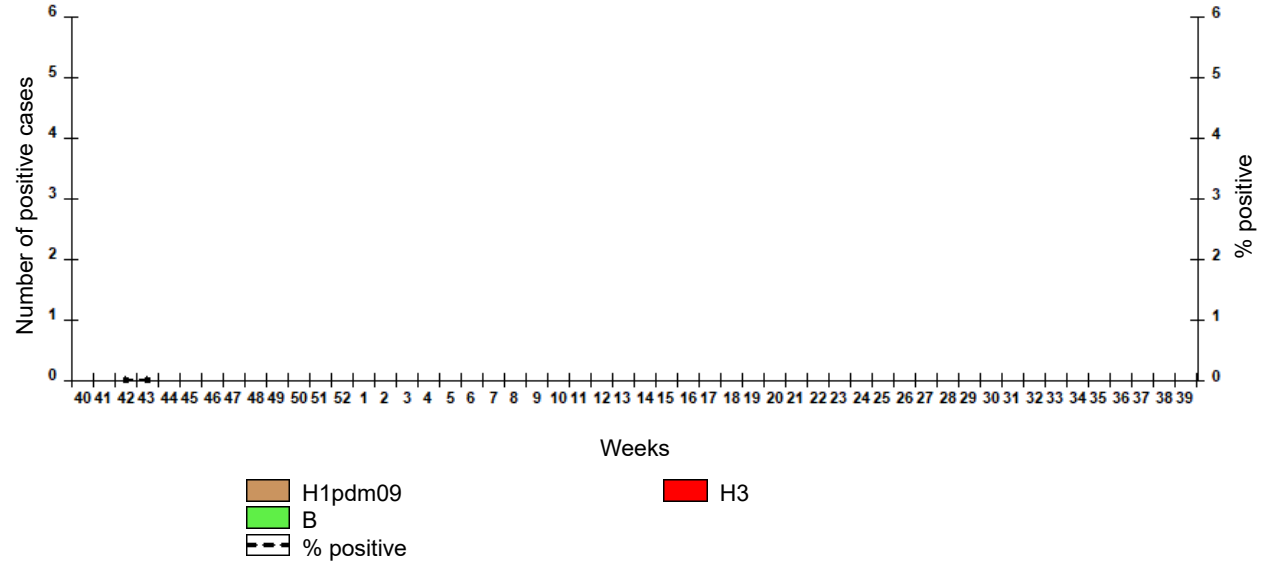
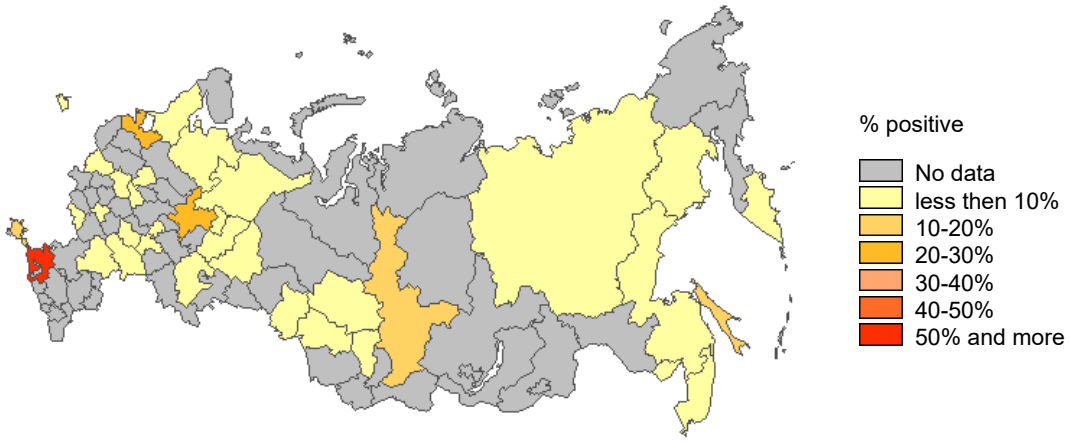


Table 1. Results of influenza and other ARVI detection by RT-PCR in Russia, week 43 of 2022

	Number of specimens / number of positive cases	**% positive**
Influenza		
Number of specimens tested for influenza	*3032*	-
Influenza A (not subt.)	*1*	*0,03%*
Influenza A(H1)pdm09	*4*	*0,1%*
Influenza A(H3)	*0*	*0,0%*
Influenza B	*0*	*0,0%*
All influenza	*5*	*0,2%*
Other ARVI		
Number of specimens tested for ARVI	*2957*	-
PIV	*66*	*2,2%*
ADV	*78*	*2,6%*
RSV	*91*	*3,1%*
RhV	*207*	*7,0%*
CoV	*16*	*0,5%*
MPV	*79*	*2,7%*
BoV	*40*	*1,4%*
All ARVI	*577*	*19,5%*
SARS-CoV-2 (COVID-19)		
Number of specimens tested for SARS-CoV-2	*11468*	-
SARS-CoV-2	*878*	*7,7%*

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



COVID-19. Totally 21 441 143 cases and 390 315 deaths associated with COVID-19 were registered in Russia including 6 385 cases and 68 deaths in last 24 hours (on 12:00 of 02.11.2022). According to the data obtained by NIC in Saint-Petersburg totally 11 468 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 878 (**7.7%**) cases.

Table 2. Results of influenza viruses isolation in Russia, week 43 of 2022

	Number of specimens / number of viruses	**% isolated viruses**
Number of specimens	*1*	-
Influenza A(H1)pdm09	*0*	*0,0%*
Influenza A(H3)	*0*	*0,0%*
Influenza B	*0*	*0,0%*
All influenza	*0*	*0,0%*

Sentinel influenza surveillance

Clinical samples from 63 SARI patients were investigated by rRT-PCR for influenza, among them 1 (**1.6%**) case of A unsubtyped influenza recognized. 53 SARI patients were investigated for ARVI by rRT-PCR, among them 16 (**30.2%**) cases of ARVI recognized including 1 case of AdV, 1 case of RSV, 9 cases of RhV, 2 cases of CoV, 2 cases of MPV and 1 case of BoV infection. 2 (**3.2%**) of 63 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

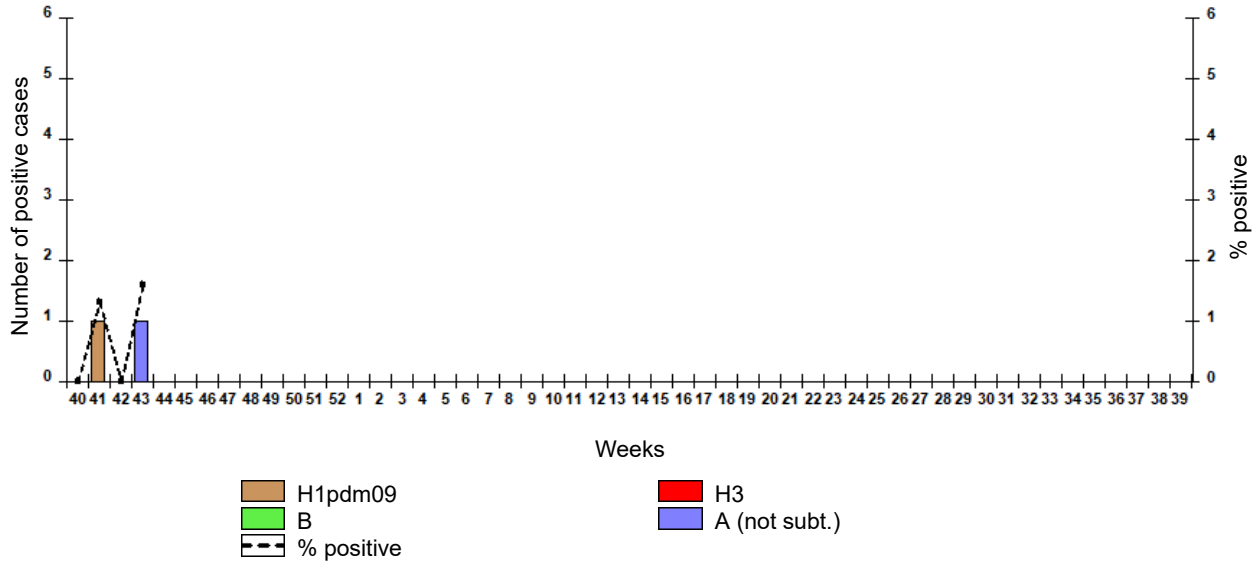

Fig. 10. Monitoring of influenza viruses detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2022/23

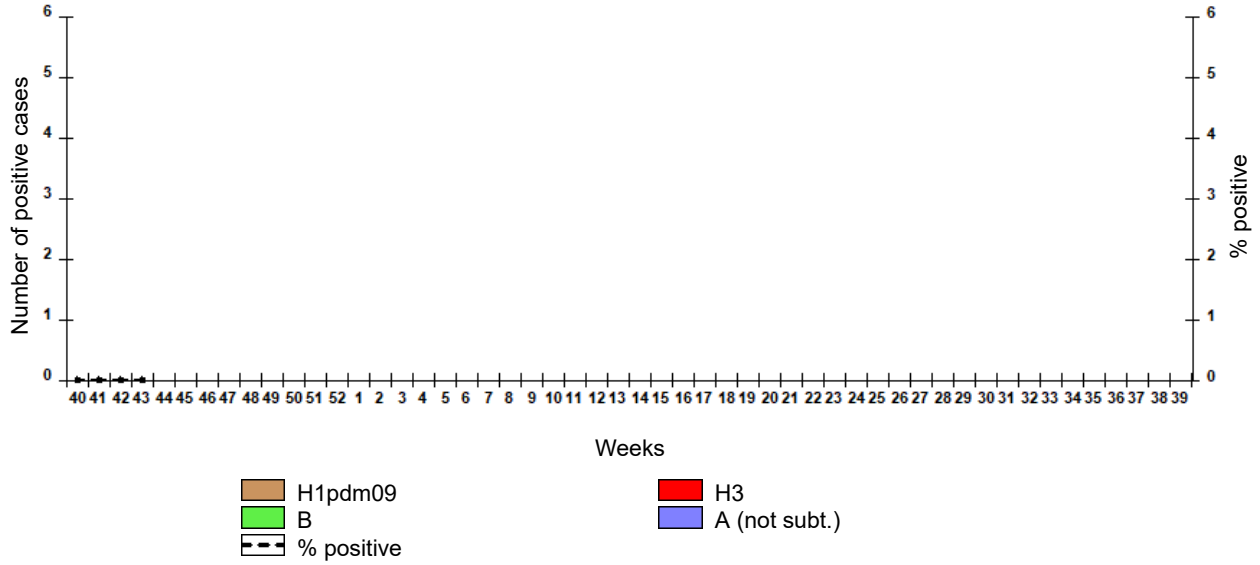

Fig. 11. Monitoring of ARVI detection by RT-PCR among SARI patients in sentinel hospitals, season 2022/23

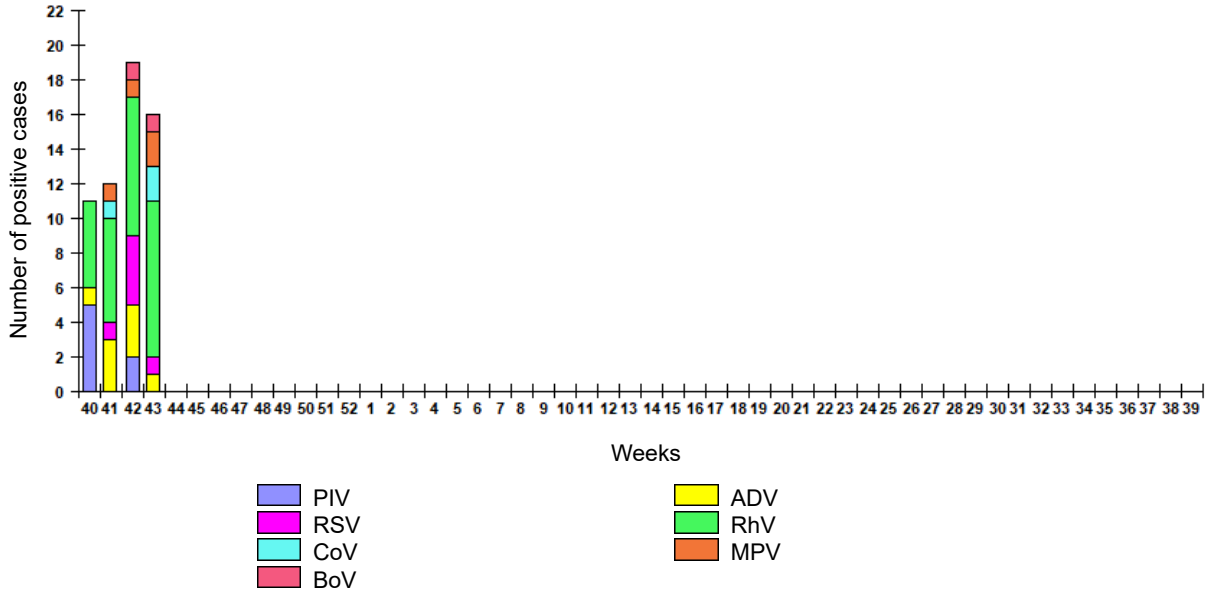

Fig. 12. Monitoring of ARVI detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2022/23