NATIONAL WEEKLY INFLUENZA BULLETIN OF THE RUSSIAN FEDERATION

week 40 of 2022
(03.10.22 - 09.10.22)

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 (73.2 per 10 000 of population) was higher than national baseline (70.0) by 4.6%.

Etiology of ILI & ARI. Among 3004 investigated patients no respiratory samples positive for influenza detected.

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 **17.3%** (PCR).

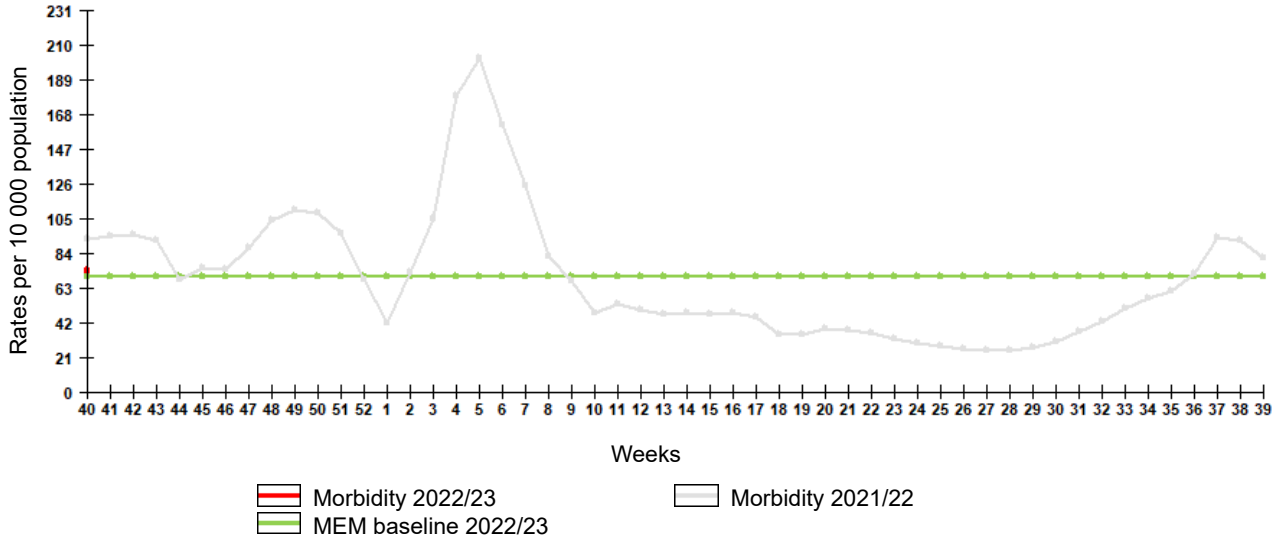
In sentinel surveillance system Clinical samples from 61 SARI patients were investigated by rRT-PCR for influenza, among them no positive cases recognized. 48 SARI patients were investigated for ARVI by rRT-PCR, among them 9 (**18.8%**) cases of ARVI recognized including 3 cases of PIV, 1 case of ADV and 5 cases of RhV infection. 61 SARI patients were investigated for SARS-CoV-2 by rRT-PCR, among them 7 (**11.5%**) cases of coronavirus SARS-CoV-2 recognized.

Clinical samples from 41 ILI/ARI patients were investigated for influenza by rRT-PCR, among them no positive cases recognized. Among 36 ILI/ARI samples 6 (**16.7%**) cases positive for ARVI detected including 2 cases of ADV and 4 cases of RhV infection. 41 ILI/ARI patients were investigated for SARS-CoV-2 by rRT-PCR, among them 2 (**4.9%**) cases of coronavirus SARS-CoV-2 recognized.

COVID-19. Totally 21 264 080 cases and 388 610 deaths associated with COVID-19 were registered in Russia including 15 477 cases and 101 deaths in last 24 hours (on 12:00 of 13.10.2022). According to the data obtained by NIC in Saint-Petersburg totally 14 015 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 1508 (**10.8%**) cases.

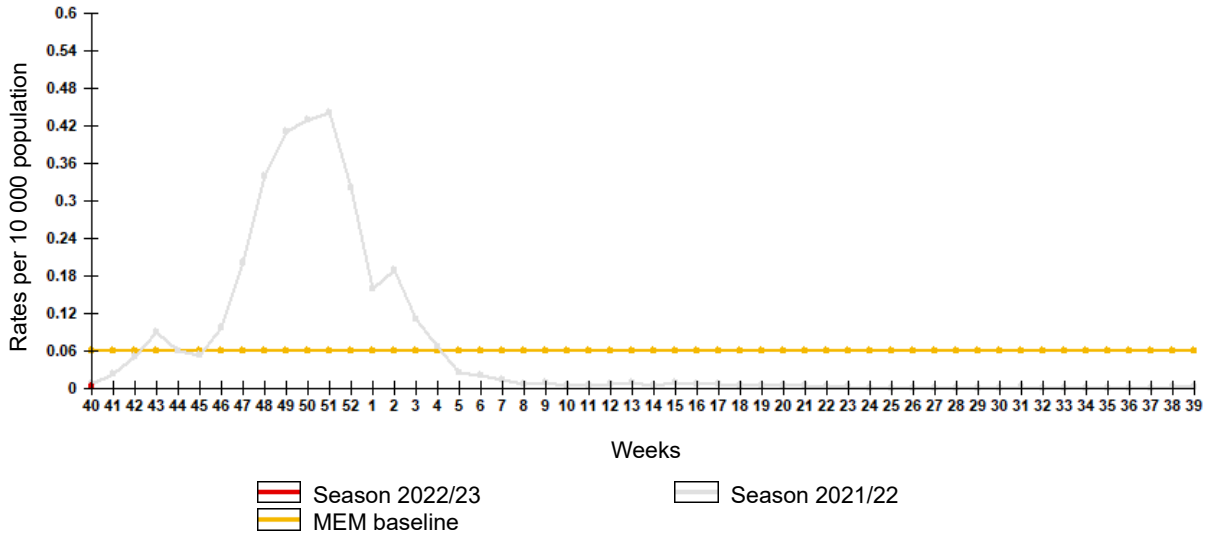
Influenza and ARI morbidity data

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



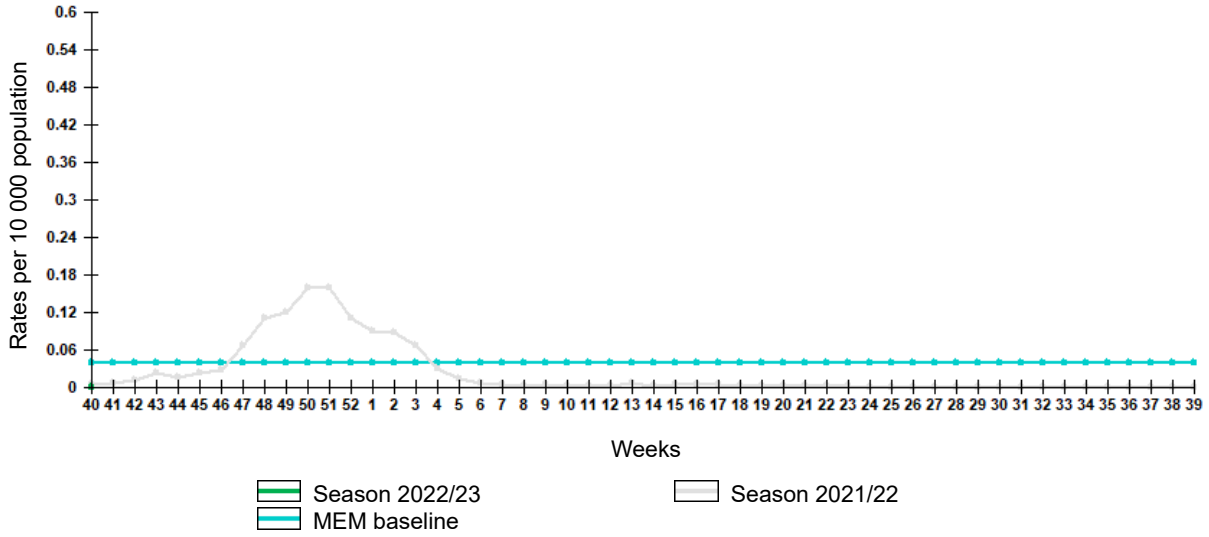
Epidemiological data showed decrease of influenza and other ARI activity in Russia in comparison with previous week. The nationwide ILI and ARI morbidity level (73.2 per 10 000 of population) was higher than national baseline (70.0) by 4.6%.

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 0.0017 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 0.00074 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 43 RBLs and two WHO NICs. Among 3004 investigated patients no respiratory samples positive for influenza detected.

Fig. 4. Geographic distribution of RT-PCR detected influenza viruses in cities under surveillance in Russia, week 40 of 2022

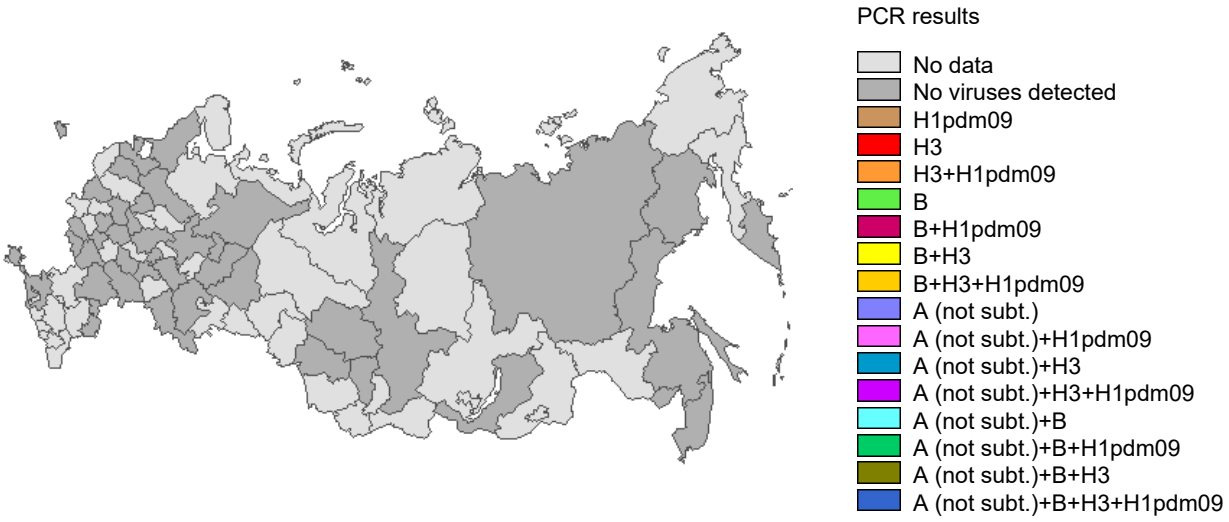


Fig. 5. Monitoring of influenza viruses detection by RT-PCR in Russia, season 2022/23

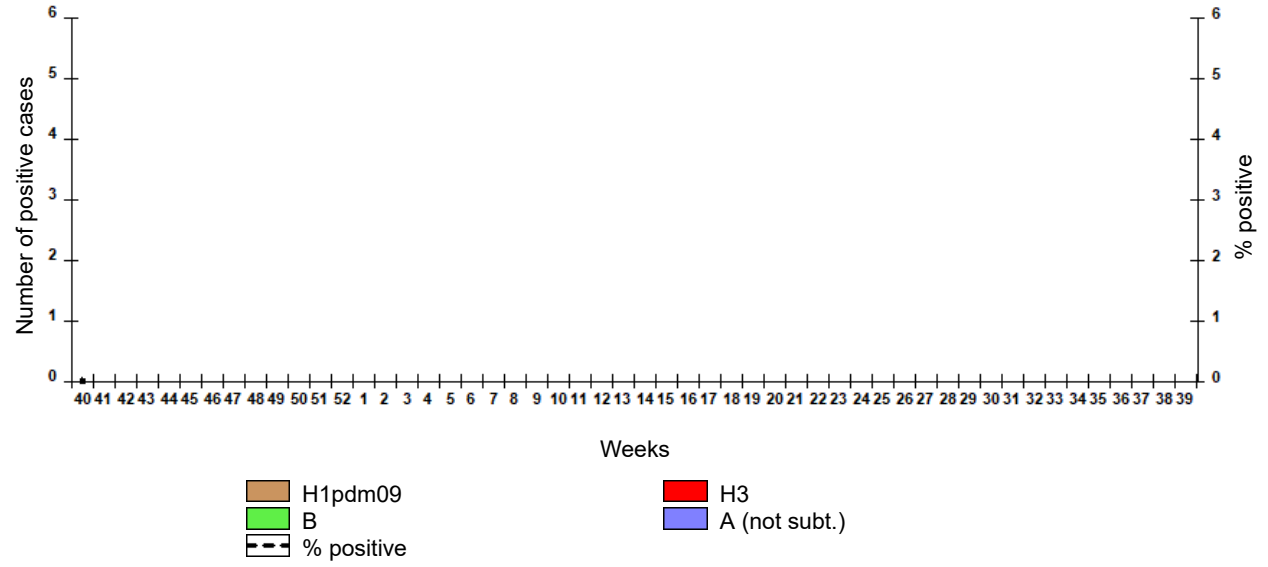
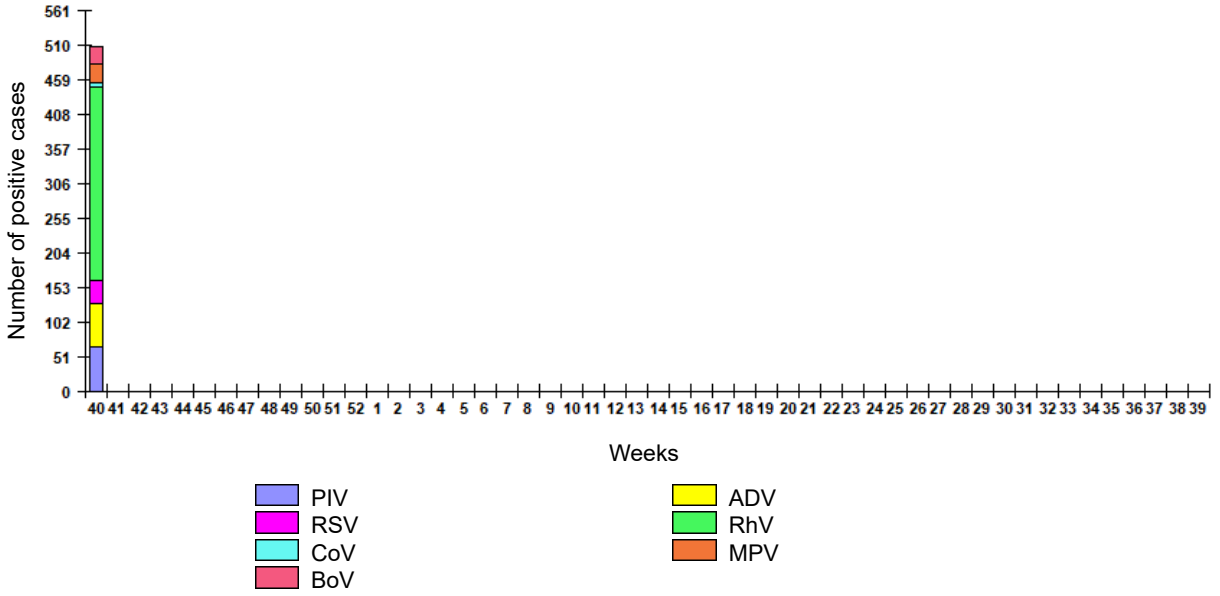


Fig. 6. Monitoring of ARVI detection by RT-PCR in Russia, season 2022/23



ARVI detections. The overall proportion of respiratory samples tested positive for other ARVI (PIV, ADV, RSV, RhV, CoV, MPV, BoV) estimated as **17.3%** of investigated samples by PCR.

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

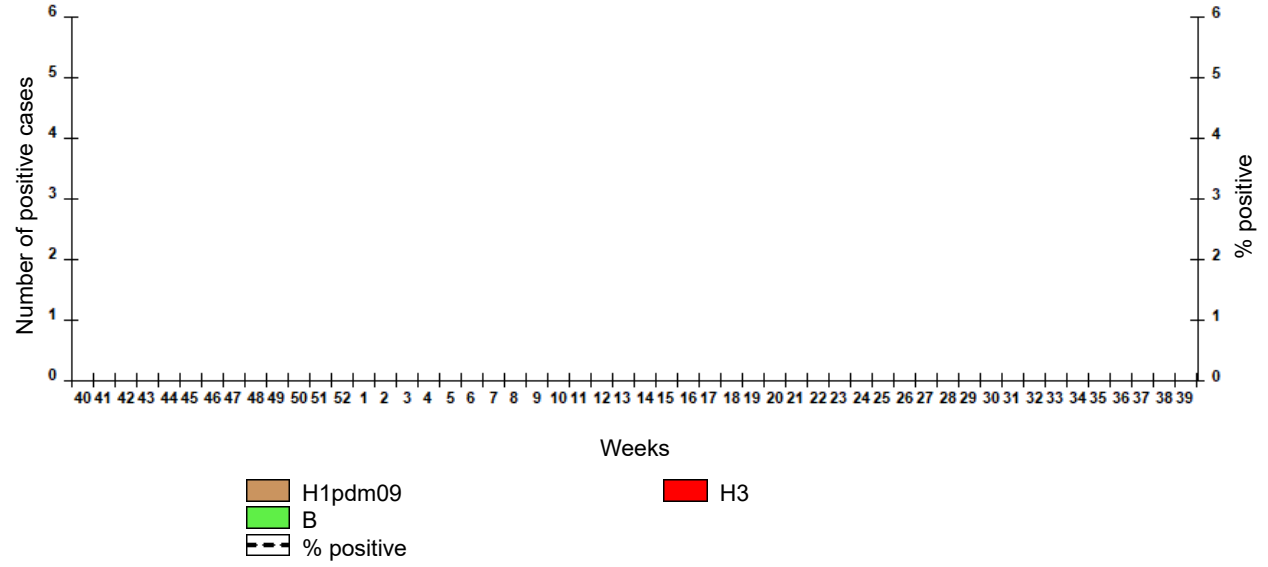
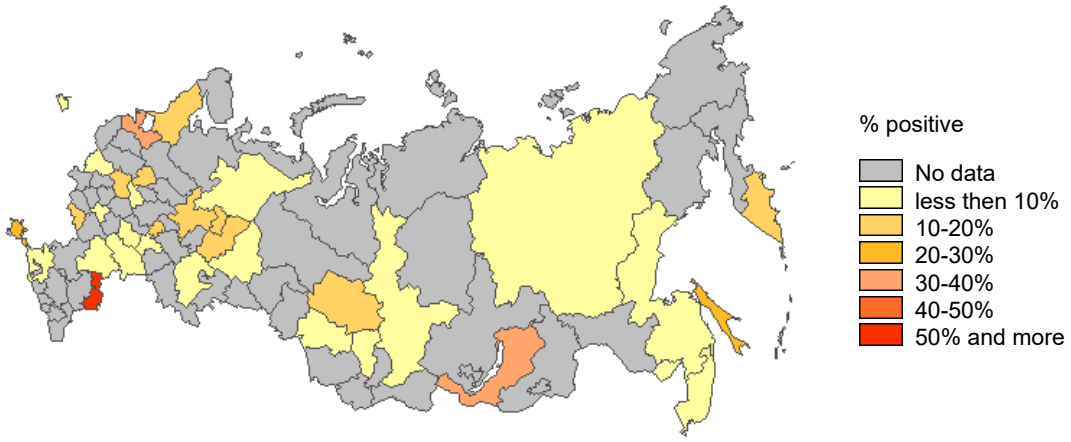


Table 1. Results of influenza and other ARVI detection by RT-PCR in Russia, week 40 of 2022

	Number of specimens / number of positive cases	% positive
Influenza		
Number of specimens tested for influenza	*3004*	-
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%*
Other ARVI		
Number of specimens tested for ARVI	*2939*	-
PIV	*66*	*2,2%*
ADV	*64*	*2,2%*
RSV	*34*	*1,2%*
RhV	*285*	*9,7%*
CoV	*7*	*0,2%*
MPV	*27*	*0,9%*
BoV	*26*	*0,9%*
All ARVI	*509*	*17,3%*
SARS-CoV-2 (COVID-19)		
Number of specimens tested for SARS-CoV-2	*14015*	-
SARS-CoV-2	*1508*	*10,8%*

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



COVID-19. Totally 21 264 080 cases and 388 610 deaths associated with COVID-19 were registered in Russia including 15 477 cases and 101 deaths in last 24 hours (on 12:00 of 13.10.2022). According to the data obtained by NIC in Saint-Petersburg totally 14 015 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 1508 (**10.8%**) cases.

Table 2. Results of influenza viruses isolation in Russia, week 40 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 61 SARI patients were investigated by rRT-PCR for influenza, among them no positive cases recognized. 48 SARI patients were investigated for ARVI by rRT-PCR, among them 9 (**18.8%**) cases of ARVI recognized including 3 cases of PIV, 1 case of ADV and 5 cases of RhV infection. 61 SARI patients were investigated for SARS-CoV-2 by rRT-PCR, among them 7 (**11.5%**) cases of coronavirus SARS-CoV-2 recognized.

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

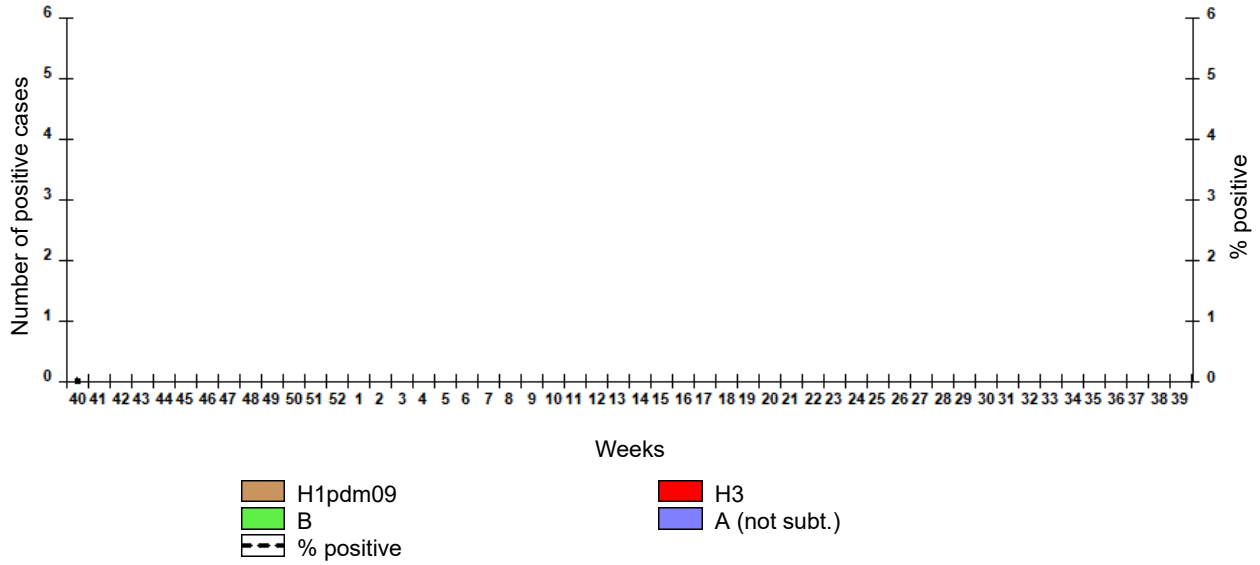

Fig. 10. Monitoring of influenza viruses detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2022/23

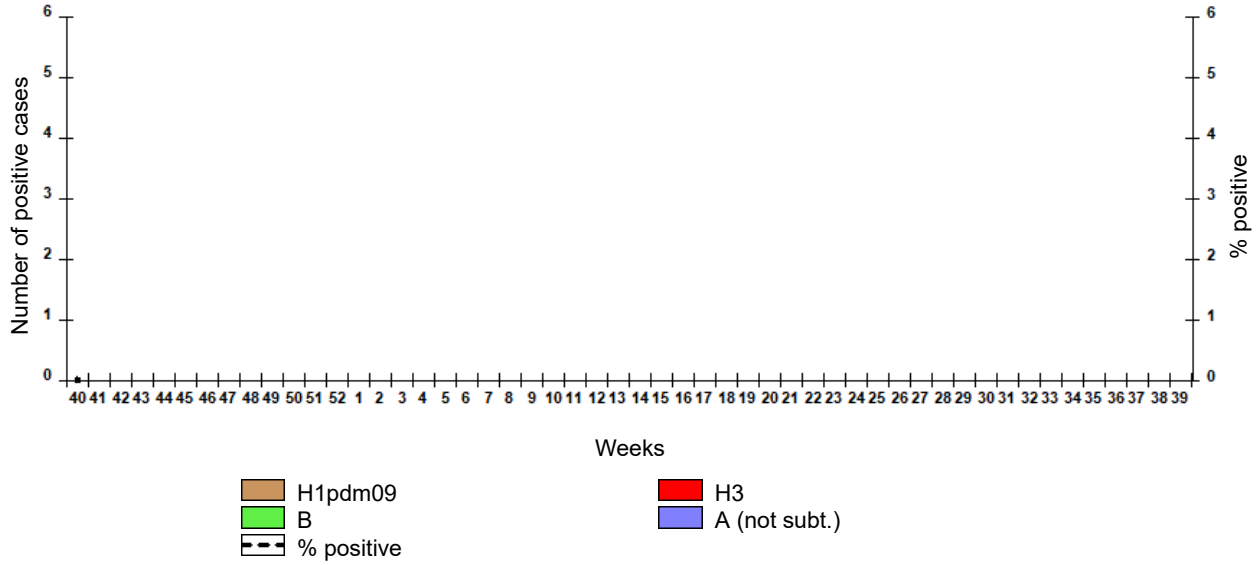

Fig. 11. Monitoring of ARVI detection by RT-PCR among SARI patients in sentinel hospitals, season 2022/23

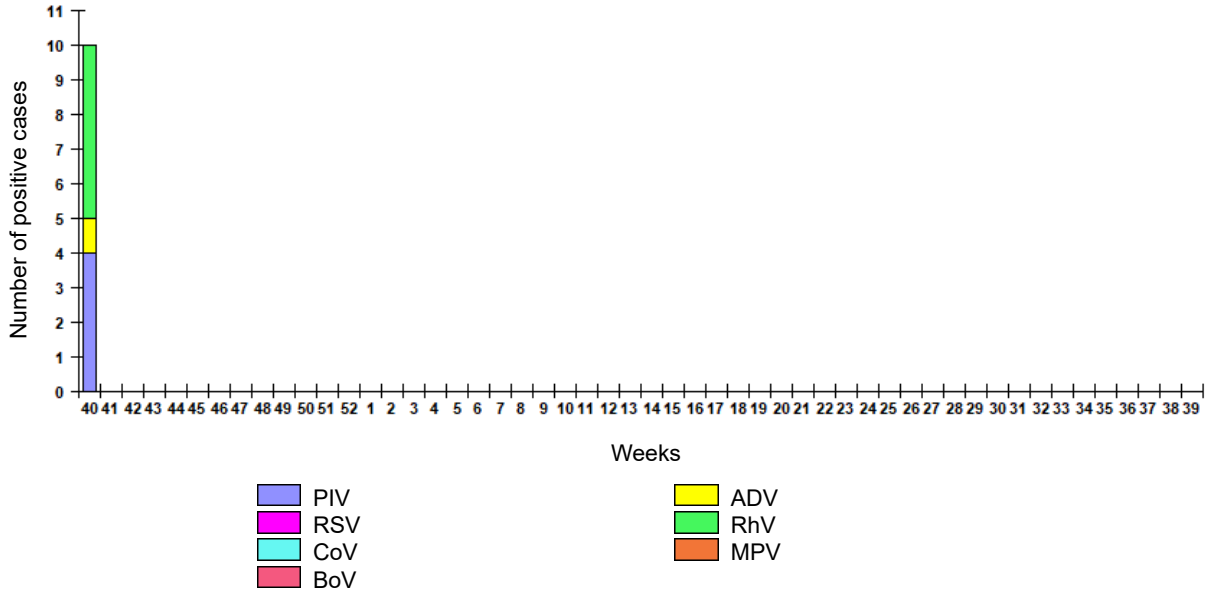

Fig. 12. Monitoring of ARVI detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2022/23