



NATIONAL WEEKLY INFLUENZA BULLETIN OF THE RUSSIAN FEDERATION

week 53 of 2020
(28.12.20 - 03.01.21)

Summary.

Influenza and ARI incidence data. Decrease of influenza and other ARI activity in Russia in comparison with previous week. The nationwide ILI and ARI morbidity level (51.4 per 10 000 of population) was lower than national baseline (70.04) by 26.6%.

Etiology of ILI & ARI. Among 2012 investigated patients no respiratory samples positive for influenza virus were 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 **10.3%** (PCR).

In sentinel surveillance system clinical samples from 41 SARI and 32 ILI/ARI patients were investigated by rRT-PCR, among them no influenza cases recognized. Among 31 SARI cases no cases were positive for ARVI. Among 22 ILI/ARI patients 4 (**18.2%**) cases were positive for ARVI, including one case of AdV, one case of RhV, one case of CoV and one case of BoV infection. 9 (**22.0%**) of 41 SARI and 3 (**9.4%**) of 32 ILI/ARI patients were positive for coronavirus SARS-CoV-2.

COVID-2019. Totally 3 332 142 cases and 60 457 deaths associated with COVID-2019 were registered in Russia including 23 541 cases and 506 deaths in last 24 hours (on 12:00 of 07.01.2021). According to the data obtained by NIC in Saint-Petersburg totally 11 842 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 3385 (**28.6%**) cases.

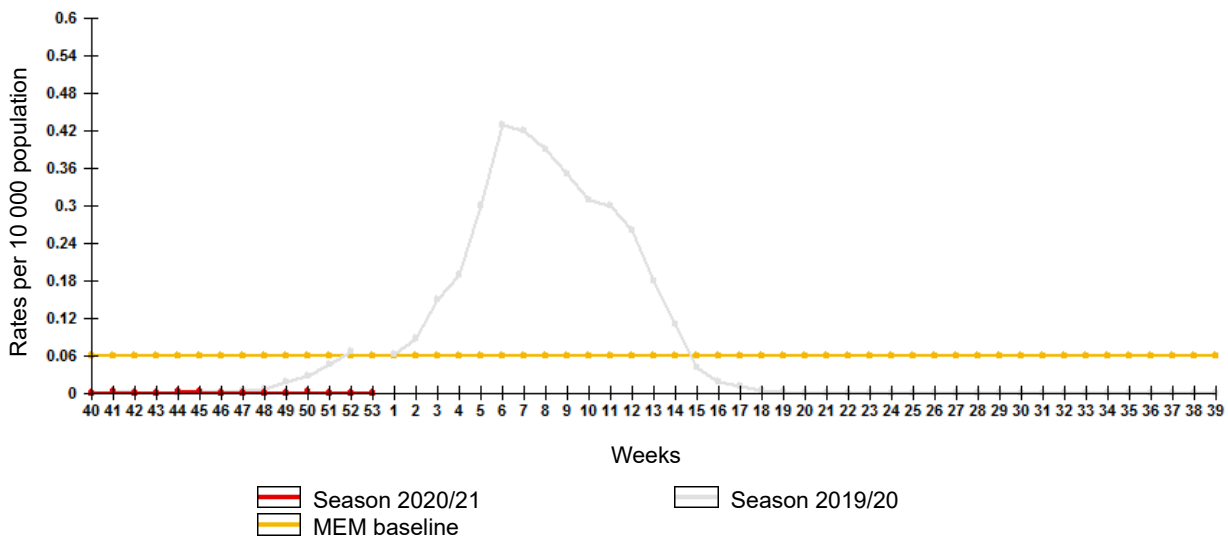
Influenza and ARI morbidity data

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



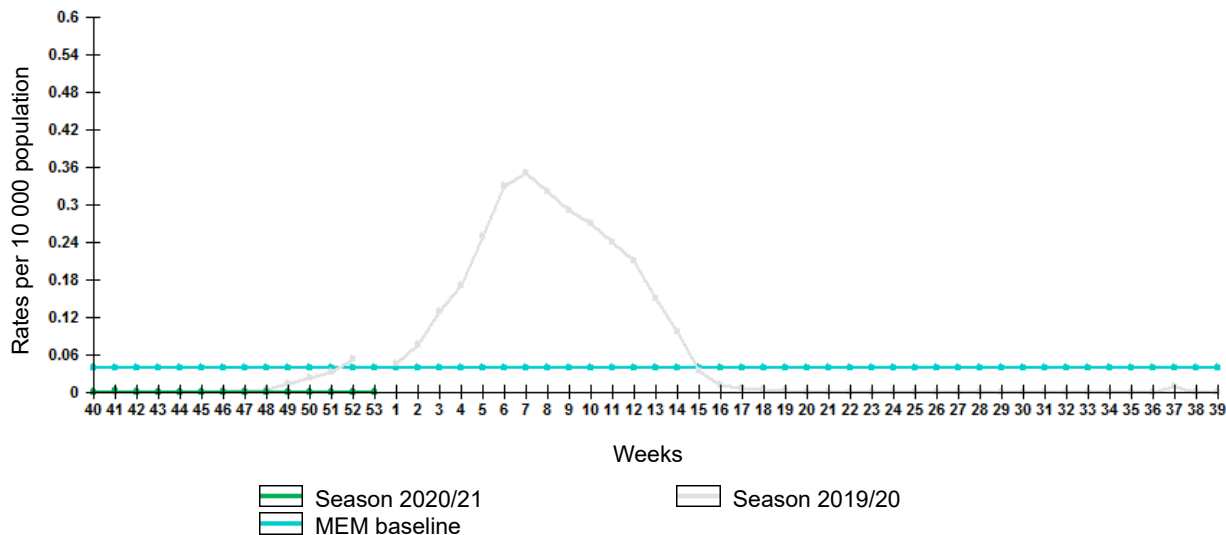
Epidemiological data showed decrease of influenza and other ARI activity in Russia in comparison with previous week. The nationwide IRI and ARI morbidity level (51.4 per 10 000 of population) was lower than national baseline (70.04) by 26.6%.

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 0.00037 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 decreased comparing to previous week and amounted to 0.0 per 10 000 of population.

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 2012 patients investigation no respiratory samples positive for influenza were detected by PCR.

Fig. 4. Geographic distribution of RT-PCR detected influenza viruses in cities under surveillance in Russia, week 53 of 2020



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

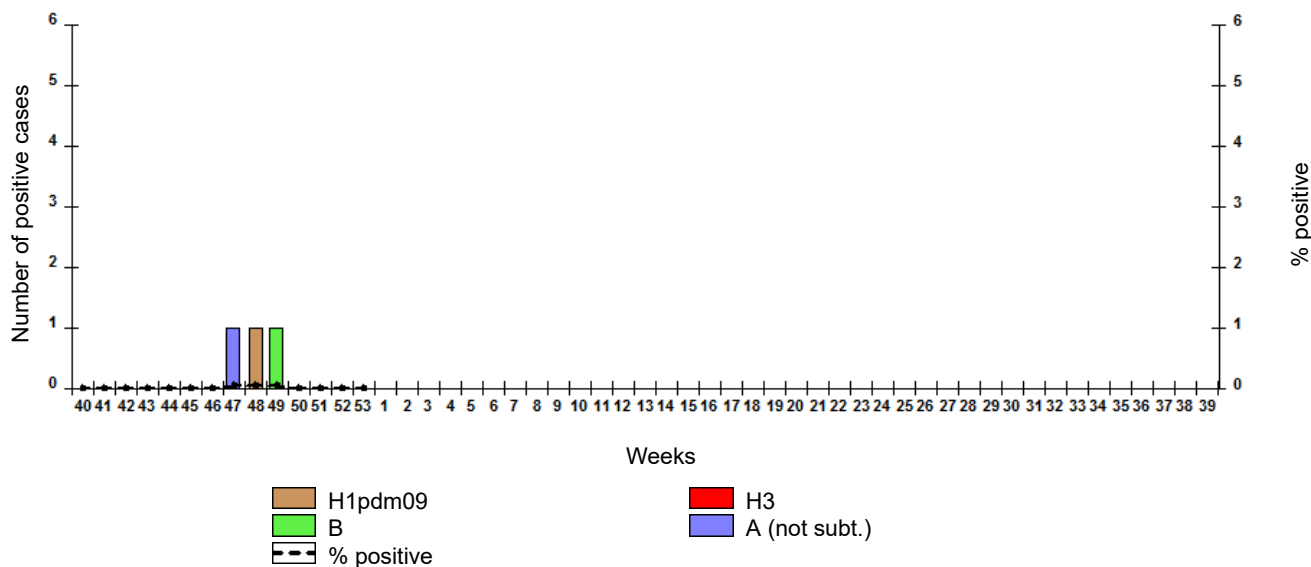
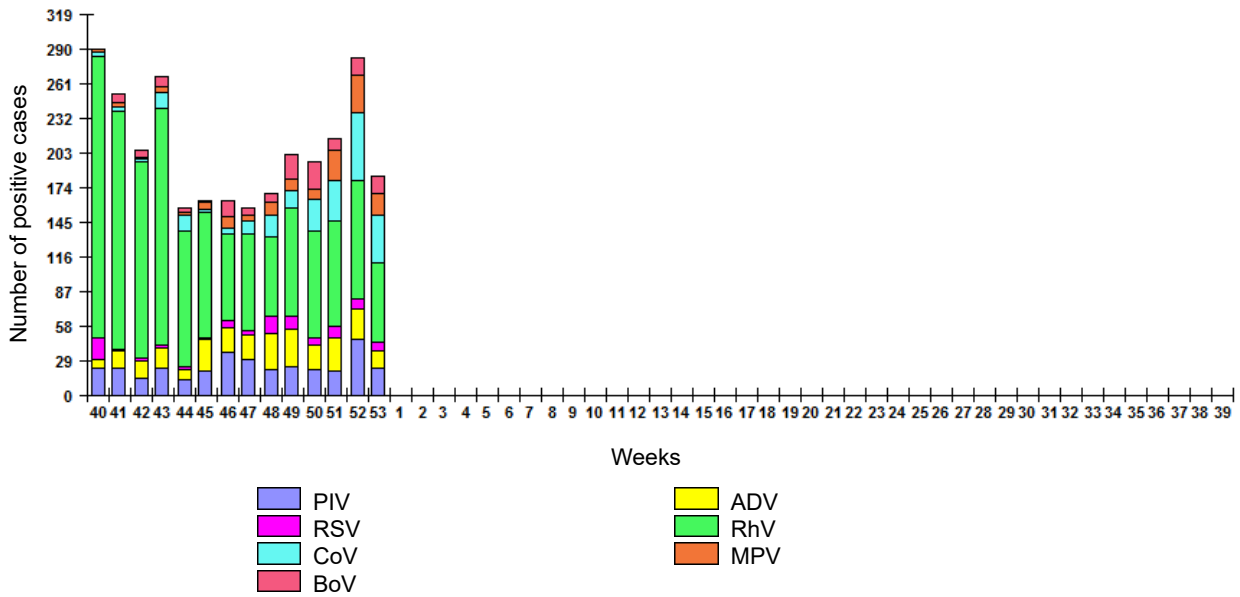


Fig. 6. Monitoring of ARVI detection by RT-PCR in Russia, season 2020/21



ARVI detections. The overall proportion of respiratory samples tested positive for other ARVI (PIV, ADV, RSV, RhV, CoV, MPV, BoV) estimated as **10.3%** of investigated samples by PCR.

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

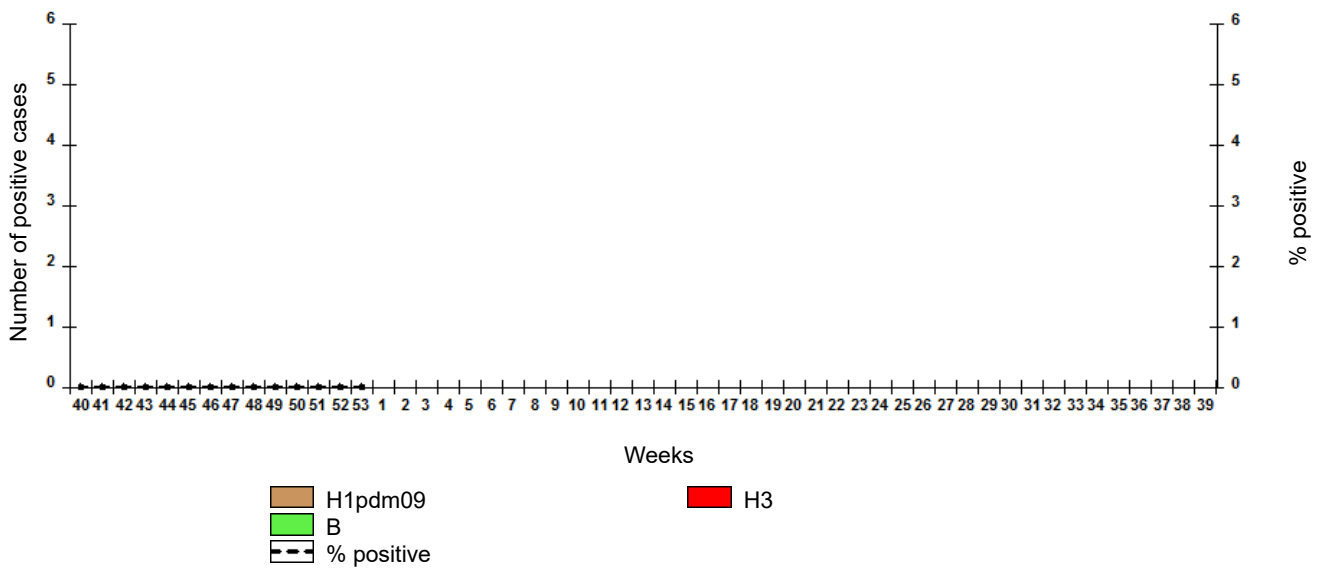
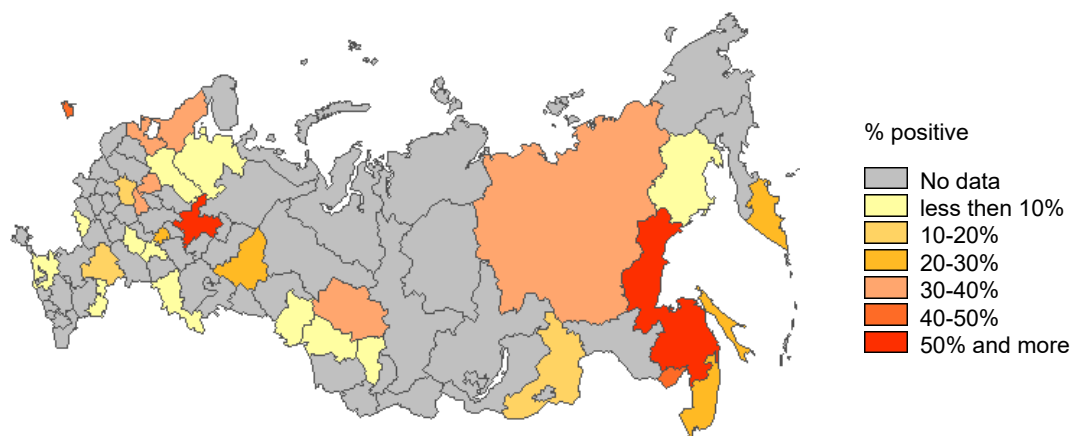


Table 1. Results of influenza and other ARVI detection by RT-PCR in Russia, week 53 of 2020

	Number of specimens / number of positive cases	% positive
<u>Influenza</u>		
Number of specimens tested for influenza	2012	-
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	1768	-
PIV	23	1,3%
ADV	14	0,8%
RSV	7	0,4%
RhV	66	3,7%
CoV	40	2,3%
MPV	18	1,0%
BoV	14	0,8%
All ARVI	182	10,3%
<u>SARS-CoV-2 (COVID-19)</u>		
Number of specimens tested for SARS-CoV-2	11842	-
SARS-CoV-2	3385	28,6%

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



COVID-2019. Totally 3 332 142 cases and 60 457 deaths associated with COVID-2019 were registered in Russia including 23 541 cases and 506 deaths in last 24 hours (on 12:00 of 07.01.2021). According to the data obtained by NIC in Saint-Petersburg totally 11 842 clinical samples were PCR investigated in last week. Among them coronavirus SARS-CoV-2 detected in 3385 (**28.6%**) cases.

Table 2. Results of influenza viruses isolation in Russia, week 53 of 2020

	Number of specimens / number of viruses	% isolated viruses
Number of specimens	21	-
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 41 SARI patients were investigated by rRT-PCR for influenza, among them no influenza cases recognized. 31 SARI patients were investigated for ARVI by rRT-PCR, among them no cases positive for ARVI recognized. 9 (22.0%) of 41 SARI patients were positive for coronavirus SARS-CoV-2.

Clinical samples from 32 ILI/ARI patients were investigated for influenza and ARVI by rRT-PCR, among them no influenza cases recognized. 4 (18.2%) of 22 ILI/ARI cases were positive for ARVI, including one case of AdV, one case of RhV, one case of CoV and one case of BoV infection. 3 (9.4%) of 32 ILI/ARI patients were positive for SARS-CoV2.

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

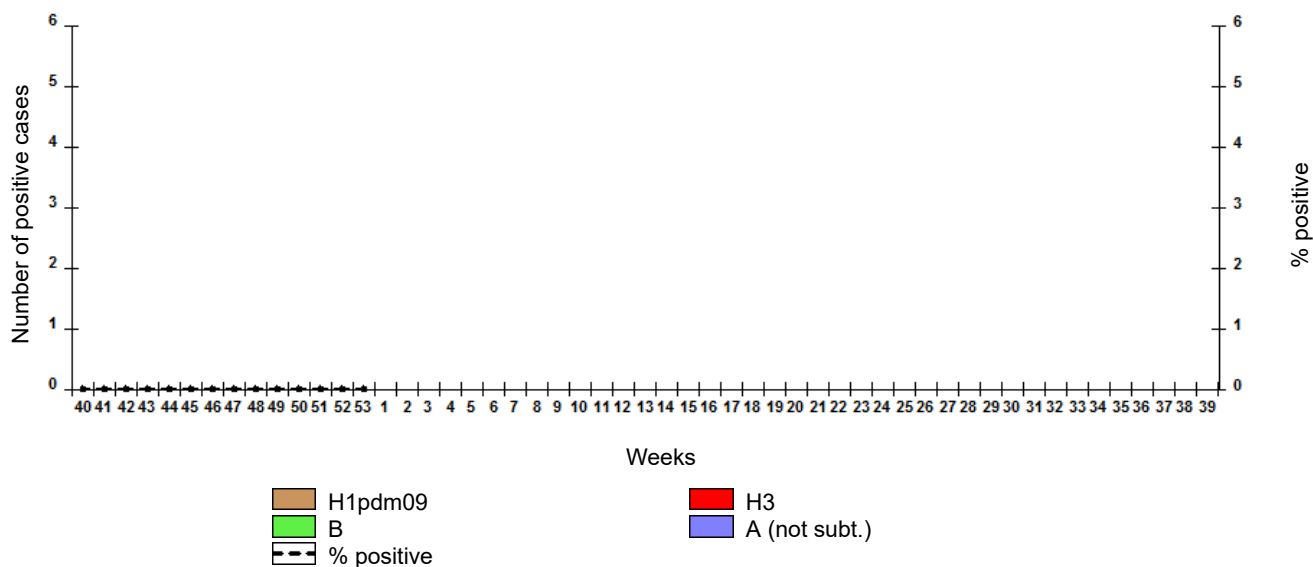


Fig. 10. Monitoring of influenza viruses detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2020/21

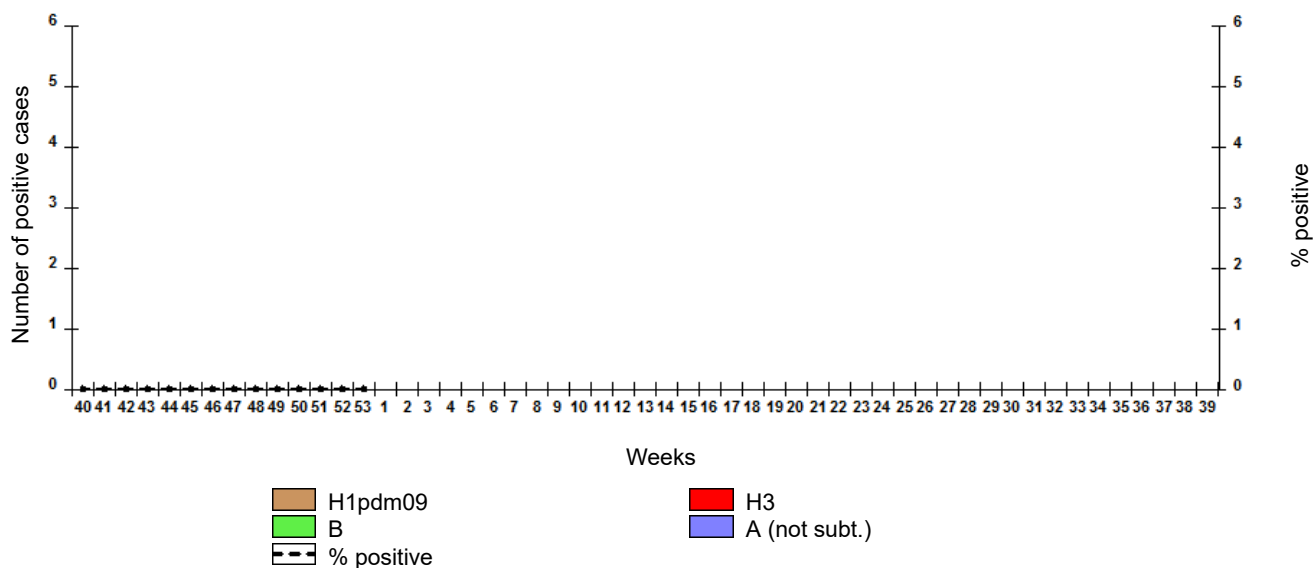


Fig. 11. Monitoring of ARVI detection by RT-PCR among SARI patients in sentinel hospitals, season 2020/21

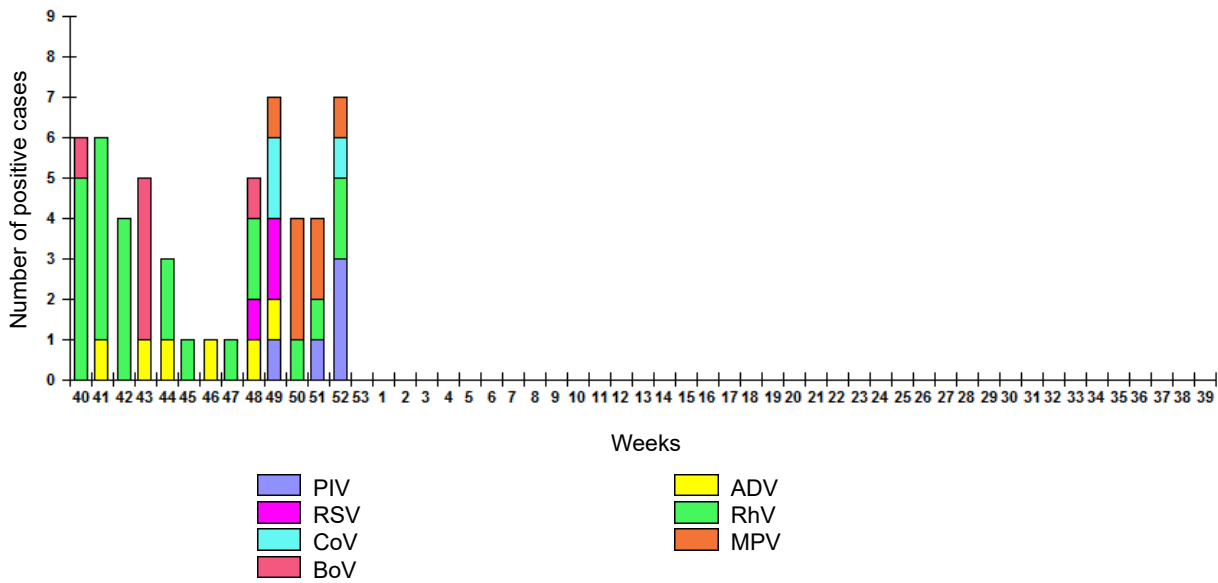


Fig. 12. Monitoring of ARVI detection by RT-PCR among ILI/ARI patients in sentinel polyclinics, season 2020/21

