

## Summary

### Week 10/2020 (2 – 8 March 2020)

- For the Region overall, influenza activity remained elevated but continued to decline for the fourth consecutive week. High influenza intensity was reported by 2 Member States and areas, and 12 reported medium influenza intensity. Widespread influenza activity was reported by the majority of Member States and areas across the Region.
- Of the individuals sampled who presented with influenza-like illness (ILI) or acute respiratory infection (ARI) to sentinel primary healthcare sites, 38% tested positive for influenza viruses, a slight decrease compared to the previous week (43%).
- Both influenza virus types A and B were co-circulating in sentinel source specimens with a higher proportion (59%) of type A viruses being detected. Of the type A detections, A(H1N1)pdm09 viruses were the most common (56%). Of the influenza B viruses, the vast majority were B/Victoria lineage.
- The distribution of viruses detected varied between Member States and areas and within sub-regions. Of 26 reports from across the Region: 14 reported dominance of type A viruses; 7 co-dominance of types A and B viruses; and 5 dominance of type B viruses.
- Pooled estimates of all-cause mortality from 24 countries or regions reporting to the [EuroMOMO](#) project showed normal expected levels of mortality.

### 2019–2020 season overview

- For the Region as a whole, influenza activity commenced earlier than in recent years and, based on sentinel sampling, first exceeded a positivity rate of 10% in week 47/2019.
- The influenza season for the Region as a whole peaked in week 05/2020 reaching a maximum positivity rate of 55%. The peak phase with positivity levels above 50% lasted for just two weeks, 05/2020 and 06/2020. In the previous influenza season, rates of influenza positivity exceeded 50% for six weeks.
- The majority of circulating viruses were susceptible to neuraminidase inhibitors supporting early treatment or prophylactic use according to national guidelines.
- Interim estimates of 2019–2020 seasonal influenza vaccine effectiveness in the northern hemisphere are available. Vaccination remains the best possible method for prevention of influenza and/or reducing the risk of serious complications. Member States should continue to promote vaccination while influenza viruses continue to circulate in the community.
- WHO has published [recommendations](#) for the composition of influenza vaccines to be used in the 2020–2021 northern hemisphere season. Based on these recommendations the influenza A(H1N1)pdm09, A(H3N2) and B/Victoria-lineage virus components should be updated for the 2020–2021 influenza vaccine.
- ECDC and WHO Regional Office for Europe published a joint [Regional Situation Assessment](#) for the 2019–2020 influenza season up to week 49/2019, which focused

on disease severity and impact on healthcare systems to assist forward planning in Member States.

## Other news

The World Health Organization characterized the novel coronavirus disease 2019 (COVID-19) outbreak as a pandemic on 11 March 2020. The number of COVID-19 cases are being reported within the European Region has increased significantly. For more information visit:

- WHO website: <https://www.who.int/emergencies/diseases/novel-coronavirus-2019>
- ECDC website: <https://www.ecdc.europa.eu/en/novel-coronavirus-china>

## Primary care data

### Syndromic surveillance data

For the 2019–2020 influenza season, ILI thresholds were defined for 35 Member States or areas and ARI thresholds for 17 Member States or areas.

For week 10/2020, 21 (64%) of the 33 Member States and areas that reported on ILI registered activities above their baseline levels. These included 2 Member States in eastern areas, 3 in northern areas, 6 in southern areas and 10 in western areas of the Region.

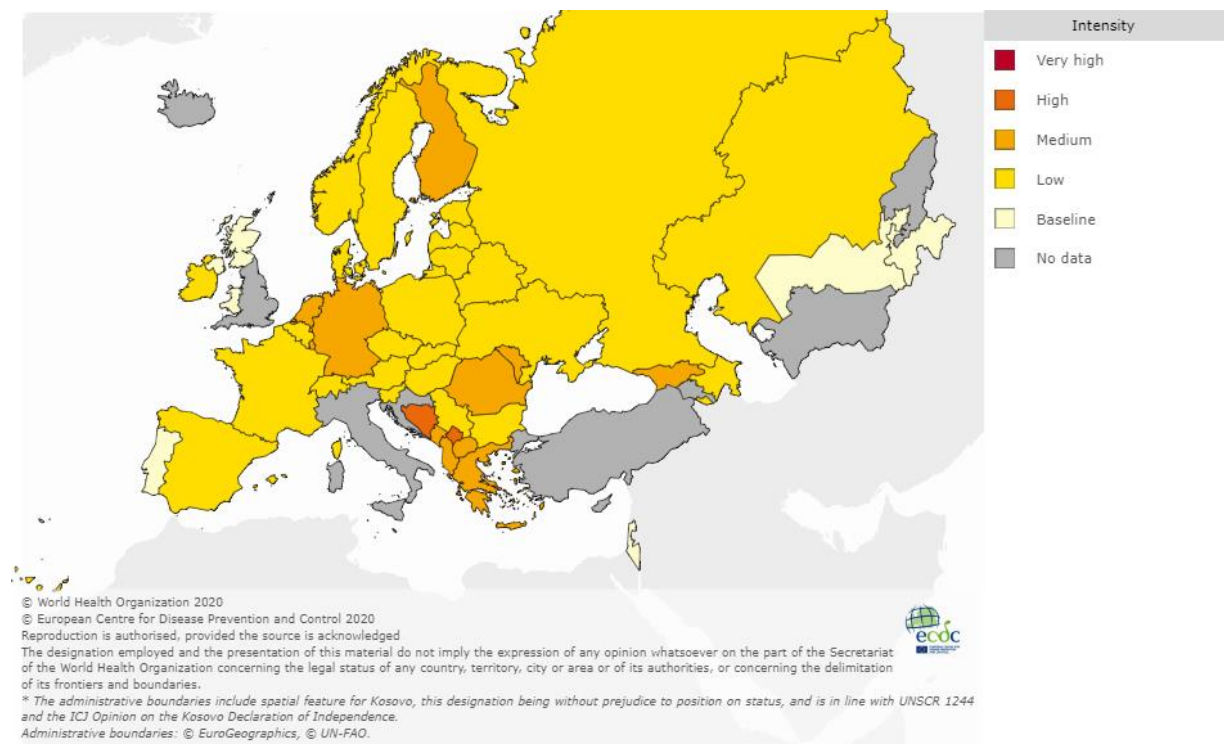
Of 16 Member States and areas that reported on ARI, 7 registered activities above their baseline levels. These include 3 Member States in eastern areas, 3 in southern areas and 1 in the western area of the Region.

### Influenza activity

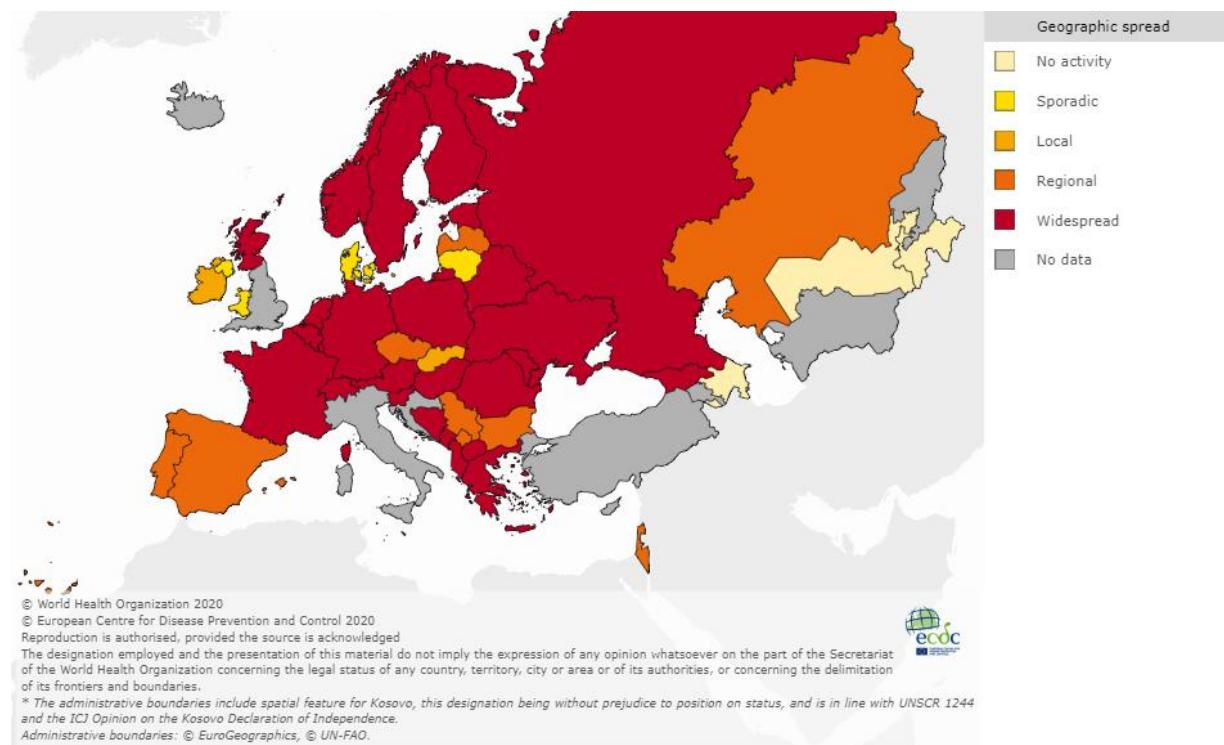
Of 45 Member States and areas that reported on the intensity indicator, 7 reported activity at baseline levels, 24 reported low, 12 reported medium, and 2 reported high (Bosnia and Herzegovina, Kosovo) intensity for week 10/2020 (Fig. 1).

Of 45 Member States and areas that reported on geographic spread, 3 reported no activity, 4 reported sporadic spread, 2 reported local spread, 10 reported regional spread and 26 reported widespread geographic activity for week 10/2020 (Fig. 2).

**Fig. 1. Intensity in the European Region, week 10/2020**



**Fig. 2. Geographic spread in the European Region, week 10/2020**



For interactive maps of influenza intensity and geographic spread, see the [Flu News Europe website](#).

## Viruses detected in sentinel-source specimens (ILI and ARI)

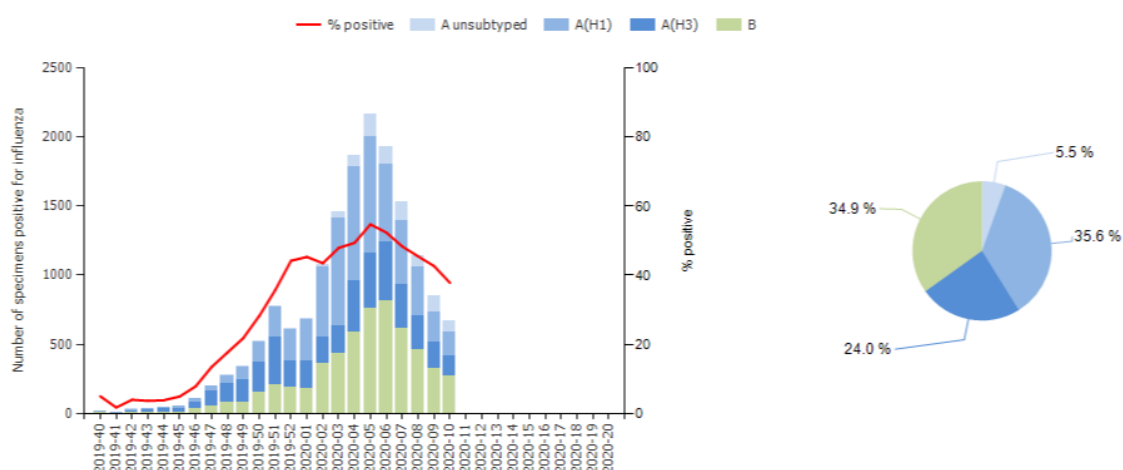
For week 10/2020, 665 (38%) of 1 753 sentinel specimens tested positive for an influenza virus; 59% were type A and 41% were type B (Fig. 3 and Table 1). Of 313 subtyped A viruses, 56% were A(H1N1)pdm09 and 44% were A(H3N2) (Fig. 3 and Table 1). All influenza type B viruses ascribed to a lineage were B/Victoria (Table 1).

Of 27 Member States or areas across the Region that each tested at least 10 sentinel specimens in week 10/2020, 15 countries reported rates of influenza virus detections of 40% and above.

For the season to date, more influenza type A (n=10 671, 65%) than type B (n=5 709, 35%) viruses have been detected (Fig. 3 and Table 1). Of 9 772 subtyped A viruses, 60% were A(H1N1)pdm09 and 40% were A(H3N2). Of 2 163 influenza type B viruses ascribed to a lineage, 99% were B/Victoria (Table 1).

Details of the distribution of viruses detected in non-sentinel-source specimens can be found in the [Virus characteristics](#) section.

**Fig. 3. Influenza virus detections in sentinel-source specimens by type and subtype, by week and cumulatively for the season 2019-2020<sup>a</sup>**



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<sup>a</sup> Pie chart shows cumulative data for this period.

**Table 1. Influenza virus detections in sentinel-source specimens by type and subtype, week 10/2020 and cumulatively for the season**

Virus type and subtype	Current Week		Season 2019–2020	
	Number	% <sup>a</sup>	Number	% <sup>a</sup>
<b>Influenza A</b>	<b>390</b>	<b>58.6</b>	<b>10 671</b>	<b>65.1</b>
A(H1N1)pdm09	174	55.6	5 839	59.8
A(H3N2)	139	44.4	3 933	40.2
A not subtyped	77	-	899	-
<b>Influenza B</b>	<b>275</b>	<b>41.4</b>	<b>5 709</b>	<b>34.9</b>
B/Victoria lineage	110	100	2 142	99.0
B/Yamagata lineage	0	0	21	1.0
Unknown lineage	165	-	3 546	-
<b>Total detections (total tested)</b>	<b>665 (1 753)</b>	<b>37.9</b>	<b>16 380 (44 090)</b>	<b>37.2</b>

<sup>a</sup> For influenza type percentage calculations, the denominator is total detections; for subtype and lineage, it is total influenza A subtyped and total influenza B lineage determined, respectively; for total detections, it is total tested.

## Influenzanet

[Influenzanet](#) is a European wide initiative providing surveillance of influenza-like illness (ILI) in the general population using citizens' self-reported symptoms. For week 10/2020, per 1 000 active participants, Denmark reported between 20 and 25 ILI cases; Spain reported between 15 and 20 cases; Switzerland and the United Kingdom reported between 10 and 15 cases; France and Portugal reported between 5 and 10 cases; and Italy reported between 0 and 5 cases. Ireland has not reported ILI cases.

Based on this system, ILI activity is low (below the first quartile of historical data for this week) in Ireland, Italy, Portugal and the United Kingdom, and medium (between the first and third quartile of historical data) in Denmark, France, Spain and Switzerland.

## Severity

A subset of Member States and areas monitor severe disease related to influenza virus infection by surveillance of 1) hospitalized laboratory-confirmed influenza cases in ICUs (11 Member States and areas) or other wards (7 Member States and areas), or 2) severe acute respiratory infection (SARI; 17 Member States and areas, mostly located in the eastern part of the Region).

### 1.1) Hospitalized laboratory-confirmed influenza cases – ICUs

For week 10/2020, 23 laboratory-confirmed influenza cases in intensive care units (ICUs) were reported by 5 Member States. Among these cases 16 were infected with influenza type A viruses and 7 with influenza type B viruses.

Since week 40/2019, more influenza type A (n=3 344, 91%) than type B (n=327, 9%) viruses were detected. Of 1 177 subtyped influenza A viruses, 57% were A(H1N1)pdm09 and

43% A(H3N2). No influenza B viruses were ascribed to a lineage. The majority of cases were reported from three countries, namely the United Kingdom (n=1 722), France (n=749) and Spain (n=733). Of 1 949 cases with known age, 49% were 15-64 years old and 37% were 65 years and older.

### 1.2) Hospitalized laboratory-confirmed influenza cases – other wards

For week 10/2020, 74 laboratory-confirmed influenza cases in wards other than ICUs were reported by 5 Member States. Among these cases influenza type A and B viruses were detected in equal proportions (50% each).

Since week 40/2019, more influenza type A (n=5 615, 87%) than type B (n=840, 13%) viruses were detected. Of 1 561 subtyped influenza A viruses, 57% were A(H1N1)pdm09 and 43% A(H3N2). No influenza B viruses were ascribed to a lineage. The majority of cases were reported by two countries, Ireland (n=3 711) and Spain (n=2 277). Of 6 454 cases with known age, 44% were 65 years and older and 31% were 15-64 years old.

### 2. SARI surveillance

For week 10/2020, 1 454 SARI cases were reported by 14 Member States or areas. Of 475 specimens tested for influenza viruses, 27% were positive for influenza virus, and influenza type A viruses (65%) were detected more frequently than influenza type B viruses (35%).

Of the SARI cases tested for influenza viruses since week 40/2019, those testing positive (n=2 732) were mostly infected by type A viruses (55%). Of the 1 290 influenza type A virus infected cases for which subtyping was performed, 61% were A(H1N1)pdm09 and 39% were A(H3N2) viruses. Of the 652 influenza type B viruses ascribed to a lineage, 99% were B/Victoria and 1% were B/Yamagata.

Of 31 369 SARI cases reported since week 40/2019, 31 089 had a recorded age and, of these, 52% were 0–4 years old and 27% were 15–64 years old.

## **Mortality monitoring**

Pooled estimates of all-cause mortality from 24 countries or regions reporting to the [EuroMOMO](#) project showed normal expected levels of mortality. The mortality levels over recent weeks should be interpreted with caution as adjustments for delayed number of death registrations may be imprecise.

## **Virus characteristics**

Details of the distribution of viruses detected in sentinel-source specimens can be found in the [Primary care data](#) section.

## **Viruses detected in non-sentinel source specimens**

For week 10/2020, 7 000 specimens from non-sentinel sources (such as hospitals, schools, primary care facilities not involved in sentinel surveillance, or nursing homes and other institutions) tested positive for influenza viruses; 67% were type A and 33% were type B.



The majority of viruses from non-sentinel specimens were not subtyped or assigned to a lineage. Of 1 721 subtyped A viruses, 70% were A(H1N1)pdm09 and 30% were A(H3N2). All influenza type B viruses ascribed to a lineage were B/Victoria (Table 2).

For the season to date, more influenza type A (n=99 729, 76%) than type B (n=32 423, 24%) viruses have been detected but relatively low numbers have been ascribed to a subtype or lineage. Of subtyped A viruses, 54% were A(H1N1)pdm09 and 46% were A(H3N2). Of influenza type B viruses ascribed to a lineage, 97% were B/Victoria (Table 2).

**Table 2. Influenza virus detections in non-sentinel source specimens by type and subtype, for week 10/2020 and cumulatively for the season**

Virus type and subtype	Current Week		Season 2019–2020	
	Number	% <sup>a</sup>	Number	% <sup>a</sup>
<b>Influenza A</b>	<b>4 684</b>	<b>66.9</b>	<b>99 729</b>	<b>75.5</b>
A(H1N1)pdm09	1 210	70.3	17 606	53.7
A(H3N2)	511	29.7	15 154	46.3
A not subtyped	2 963	-	66 969	-
<b>Influenza B</b>	<b>2 316</b>	<b>33.1</b>	<b>32 423</b>	<b>24.5</b>
B/Victoria lineage	80	100	1 708	96.7
B/Yamagata lineage	0	0	59	3.3
Unknown lineage	2 236	-	30 656	-
<b>Total detections (total tested)</b>	<b>7 000 (33 201)</b>	<b>-</b>	<b>132 152 (587 319)</b>	<b>-</b>

<sup>a</sup> For type percentage calculations, the denominator is total detections; for subtype and lineage, it is total influenza A subtyped and total influenza B lineage determined, respectively; as not all countries have a true non-sentinel testing denominator, no percentage calculations for total tested are shown.

## Genetic and antigenic characterization

For specimens collected since week 40/2019, genetic characterization of 2 507 viruses has been reported (Table 3):

- 1 863 (74%) type A: 964 A(H3N2) and 899 A(H1N1)pdm09;
- 644 (26%) type B: 616 B/Victoria and 28 B/Yamagata.

While the A(H1N1)pdm09 viruses fall within subgroups of subclade 6B.1A5 and subclade 6B.1A7 that are different from that of the vaccine virus A/Brisbane/02/2018 (6B.1A1), it is anticipated that the vaccine virus will be effective based on HI assays conducted with post-infection ferret antisera raised against the vaccine virus.

As seen elsewhere in the world, there is significant genetic diversity among circulating A(H3N2) viruses in the European region for the 2019–2020 influenza season to date, with 52% clade 3C.3a and 48% subclade 3C.2a. All subclade 3C.2a1 viruses fall in subgroup 3C.2a1b (with the latter splitting between 3 designated genetic clusters). The vaccine virus, A/Kansas/14/2017, falls within clade 3C.3a and viruses within this clade induce clade-specific antibodies in ferrets, so viruses falling in other clades/subclades may be less well covered by human immune responses to the vaccine.

For the B/Victoria-lineage, viruses in the B/Colorado/06/2017 vaccine virus double deletion clade (1A (del 162-163)) have been in the minority. However, there is evidence of some cross-reactivity with viruses in the triple deletion clade (1A (del 162-164)) by post-infection ferret antisera raised against the egg-propagated vaccine virus.

B/Yamagata lineage viruses have been detected in low numbers worldwide and, despite some genetic drift with associated HA amino acid substitutions, retain good reactivity with post-infection ferret antisera raised against the B/Phuket/3073/2013 vaccine virus.

**Table 3. Viruses attributed to genetic groups, cumulative for weeks 40/2019–10/2020**

Phylogenetic group	Number of viruses
A(H1)pdm09 group 6B.1A5A representative A/Norway/3433/2018	822
A(H1)pdm09 group 6B.1A7 representative A/Slovenia/1489/2019	18
A(H1)pdm09 group 6B.1A5B representative A/Switzerland/3330/2018	41
A(H1)pdm09 group 6B.1A1 representative A/Brisbane/02/2018 <sup>a</sup>	11
A(H1)pdm09 attributed to recognised group in the guidance but not listed here	7
A(H3) clade 3C.2a1b+T135K-B representative A/Hong Kong/2675/2019	81
A(H3) clade 3C.3a representative A/Kansas/14/2017 <sup>a</sup>	505
A(H3) clade 3C.2a1b+T135K-A representative A/La Rioja/2202/2018	63
A(H3) clade 3C.2a1b+T131K representative A/South Australia/34/2019	314
A(H3) attributed to recognised group in the guidance but not listed here	1
B(Vic)-lineage clade 1A (del162-163) representative B/Colorado/06/2017 <sup>a</sup>	19
B(Vic)-lineage clade 1A (del162-164 subgroup) representative B/Hong Kong/269/2017	5
B(Vic)-lineage clade 1A (del162-164) representative B/Washington/02/2019	552
B(Vic) attributed to recognised group in the guidance but not listed here	40
B(Yam)-lineage clade representative B/Phuket/3073/2013 <sup>b</sup>	26
B(Yam) attributed to recognised group in the guidance but not listed here	2

<sup>a</sup> Vaccine component for 2019–2020 northern hemisphere.

<sup>b</sup> Vaccine component of quadrivalent vaccines for use in 2019–2020 northern hemisphere season.

ECDC published a [report](#) in January that largely focused on viruses from across the world, with collection dates after 31 August, that had full length HA gene sequence data deposited in GISAID by 2 January 2020. Since the November 2019 characterization report, 12 shipments of influenza-positive specimens from European Union/European Economic Area (EU/EEA) countries had been received by the WHO Collaborating Centre, London (the Francis Crick Institute). A total of 397 virus specimens had been received, with collection dates after 31 August. A summary of viruses from EU/EEA countries characterized in December is given below. Previously published [influenza virus characterization reports](#) are also available on the ECDC website.

### **A(H1N1)pdm09 viruses**

17 A(H1N1)pdm09 viruses from EU/EEA countries were characterized antigenically since the last report (for November, published in December), with 16 showing good reactivity with antiserum raised against the 2019–2020 vaccine virus, A/Brisbane/02/2018. The 21 viruses



from EU/EEA countries characterized genetically fell within subclades of clade 6B.1A: 15 6B.1A5A, 3 6B.1A5B, 1 6B.1A6 and 2 6B.1A7.

### **A(H3N2) viruses**

Antigenic characterization of A(H3N2) viruses remains technically difficult. 17 A(H3N2) viruses were characterized antigenically since the last characterization report. Of the 17, 12 were clade 3C.3a viruses that were antigenically similar to the vaccine virus, A/Kansas/14/2017. The remaining five were subgroup 3C.2a1b+T135K viruses that were poorly recognised by the vaccine virus. Of the 57 viruses characterized genetically, 38 were clade 3C.3a, 11 were subgroup 3C.2a1b+T131K, 3 were subgroup 3C.2a1b+T135K-A and 5 were subgroup 3C.2a1b+T135K-B.

### **B/Victoria viruses**

14 B/Victoria-lineage viruses were characterized in December. All gave antigenic profiles characteristic of the triple deletion subgroup 1A( $\Delta$ 3)B, represented by B/Washington/02/2019, the vaccine virus for the 2020 southern hemisphere season. The subgroup has been confirmed for nine of the viruses.

### **B/Yamagata viruses**

1 B/Yamagata-lineage virus was characterized antigenically in December. It reacted poorly with antiserum raised against the vaccine virus B/Phuket/3073/2013 (clade 3) and only reacted well with an antiserum raised against a B/Yamagata-lineage virus carrying multiple unusual substitutions in HA1.

## **Vaccine composition**

Based on WHO published recommendations on 21 February 2019, the composition of influenza vaccines for use in the **2019–2020 northern hemisphere influenza season** contain the following:

- an A/Brisbane/02/2018 (H1N1)pdm09-like virus (Clade 6B.1A1);
- an A/Kansas/14/2017 (H3N2)-like virus (Clade 3C.3a);
- a B/Colorado/06/2017-like virus (B/Victoria/2/87 lineage) (Clade 1A\_ $\Delta$ 2); and
- a B/Phuket/3073/2013-like virus (B/Yamagata/16/88 lineage) (Clade 3).

It was recommended that the influenza B virus component of trivalent vaccines for use in the 2019–2020 northern hemisphere influenza season be a B/Colorado/06/2017-like virus of the B/Victoria/2/87-lineage.

The [full report](#) and [Frequently Asked Questions](#) for the 21 February 2019 decision and the 21 March 2019 [addendum](#) are available on the [WHO website](#).

The report from the [Vaccine Composition Meeting for the southern hemisphere](#) 2020 season can be found [here](#).

On 28 February 2020, WHO published recommendations for the components of influenza vaccines for use in the **2020–2021 northern hemisphere influenza season**.

**Egg-based vaccines** should contain following:

- an A/Guangdong-Maonan/SWL1536/2019 (H1N1)pdm09-like virus (Clade 6B.1A5A);
- an A/Hong Kong/2671/2019 (H3N2)-like virus (Clade 3C.2a1b+T135K-B);
- a B/Washington/02/2019 (B/Victoria lineage)-like virus (Clade 1A\_Δ3B); and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus (Clade 3).

**Cell- or recombinant-based vaccines** should contain following:

- an A/Hawaii/70/2019 (H1N1)pdm09-like virus (Clade 6B.1A5A);
- an A/Hong Kong/45/2019 (H3N2)-like virus (Clade 3C.2a1b+T135K-B);
- a B/Washington/02/2019 (B/Victoria lineage)-like virus (Clade 1A\_Δ3B); and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus (Clade 3).

It is recommended that the influenza B virus component of both trivalent vaccine types for use in the 2020–2021 northern hemisphere influenza season should be a B/Washington/02/2019-like virus of the B/Victoria-lineage.

The [full report](#) and [Frequently Asked Questions](#) for the 28 February 2020 decision are available on the [WHO website](#).

## Vaccine effectiveness

Influenza vaccination is of continued benefit during the ongoing 2019/20 influenza season.

Interim 2019/20 influenza vaccine effectiveness (VE) results from six European studies have been [published](#). The VE point estimates for all ages were 29% to 61% against any influenza in the primary care setting and 35% to 60% in hospitalised older adults (aged 65 years and over). The VE point estimates against A(H1N1)pdm09 (all ages, both settings) was 48% to 75%, and against A(H3N2) ranged from –58% to 57% (primary care) and –16% to 60% (hospital). Against influenza B, VE for all ages was 62% to 83% (primary care only).

Preliminary influenza VE estimates from [Finland](#) suggest that overall 2019–2020 VE was 31% (adjusted VE CI 95%: 21%–39%) respectively among adults 65 years and older, and 61% (adjusted VE CI 95%: 52%–67%) among children from 6 months to 6 years of age for both influenza virus types

Interim estimates of 2019–2020 seasonal influenza vaccine effectiveness (VE) in the United States have been [published](#). Overall, VE against any influenza virus associated with medically attended ARI was 45% (95% CI: 36%–53%). VE was estimated to be 50% (95% CI: 39%–59%) against influenza B/Victoria viruses and 37% (95% CI: 19%–52%) against influenza A(H1N1)pdm09. VE among children and adolescents aged 6 months–17 years was 55% (95% CI: 42%–65%).

Interim influenza VE estimates for the 2019–2020 season in Canada have also been [published](#). Overall VE was 58% (95% CI: 47%–66%), with higher point estimates among children aged 1–19 years (74%; 95% CI: 59%–84%) but lower among adults aged ≥65 years

(18%; 95% CI: –59%–58%). VE against influenza A(H1N1)pdm09 was 44% (95% CI: 26%–58%) overall; VE against influenza A(H3N2) was 62% (95% CI: 37%–77%) overall; and VE against influenza B was 69% (95% CI: 57%–77%).

Influenza vaccine effectiveness estimates can vary depending on several factors, for example, study methods, health facility type, population, disease outcome, influenza vaccine types, influenza activity and circulating viruses.

### **Antiviral susceptibility testing**

Since the beginning of the season, 1 164 influenza viruses have been tested for susceptibility to neuraminidase inhibitors: 480 A(H1N1)pdm09, 472 A(H3N2) and 212 type B viruses. One A(H3N2) virus carried amino acid substitution R292K in neuraminidase and showed evidence of highly reduced inhibition by oseltamivir and reduced inhibition by zanamivir. One A(H1N1)pdm09 virus carried amino acid substitution H275Y in NA indicative of highly reduced inhibition by oseltamivir. Two type B/Victoria viruses showed evidence of reduced inhibition, one of them by oseltamivir and the other by zanamivir.

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Maps and commentary do not represent a statement on the legal or border status of the countries and territories shown.

All data are up to date on the day of publication. Past this date, however, published data should not be used for longitudinal comparisons, as countries retrospectively update their databases.

The WHO Regional Office for Europe is responsible for the accuracy of the Russian translation.

Suggested citation:

European Centre for Disease Prevention and Control/WHO Regional Office for Europe. Flu News Europe, Joint ECDC–WHO weekly influenza update, week 10/2020.

Tables and figures should be referenced:

European Centre for Disease Prevention and Control/WHO Regional Office for Europe. Flu News Europe, Joint ECDC–WHO weekly influenza update, week 10/2020.

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