

## ECDC DAILY UPDATE

### Pandemic (H1N1) 2009

Update 19 August 2009,  
17:00 hours CEST

## Main developments in past 24 hours

- 729 new cases reported in the EU and EFTA countries, reaching a total of 40 156 cases;
- 5 729 new cases including 205 fatal cases, were reported from non-EU and EFTA countries, reaching a cumulative total of 203 431 cases;
- Preliminary estimate for reproductive number from New Zealand published last week.

This report is based on official information provided by the national public health websites, or through other official communication channels. An update on the number of confirmed cases as of 19 August 2009, 16:00 hours CEST, is presented in Table 1 and Table 2.

**Disclaimer:** *Several countries have now announced recommendations on treatment on clinical signs only and focused laboratory testing only for specific population groups or in outbreaks. For these countries, the reported numbers of cases presented in this report will severely underestimate the true incidence in the country and will not be comparable to countries still recommending laboratory tests of all suspected influenza cases.*

## Epidemiologic update

Out of the 27 EU and 4 EFTA countries, all countries have reported cases of influenza A(H1N1)v. A total of 40 156 confirmed cases of influenza A(H1N1)v infection, including 63 deaths have been reported since April 2009 (Table 1). In the past 24 hours, 729 new cases, from the EU and EFTA countries. Currently, the majority of the cases are being reported from Germany. During this week, we have identified public reports of currently hospitalised cases from 5 countries (Table 2). The majority of the hospitalized cases have been reported from UK, specifically from England.

Outside of the EU and EFTA countries, a total of 5 729 new cases have been reported within the last 24 hours. 205 fatal cases were also reported (Table 3). In total, 203 431 cases including 2 286 fatal cases have been reported from non-EU and EFTA countries. Media reports discuss increasing numbers of cases being reported in countries on the northern and eastern side of the Indian Ocean, as well as South Africa. Most North, Central and South American countries have passed the peak incidence period, according to media reports and supported by the official reports.

Globally, the total number of confirmed and reported influenza A (H1N1)v cases to date is 243 587 including 2 349 deaths.

## Other developments

### **UK MHRA issued a letter to healthcare personnel alerting them to possible interactions between oseltamivir and warfarin.**

The UK Medicines and healthcare products regulatory agency (MHRA) issued a letter to healthcare personnel in the country alerting them to possibility of interactions between oseltamivir and warfarin. These possible interactions were identified through a signal in the adverse effects monitoring system. Warfarin is an anticoagulant used by approximately 600 000 cardiovascular patients in the UK and is known or suspected to have interactions with several medicines and food products. Other signals identified through the adverse events monitoring systems included hepatic adverse events and reports on convulsions and hallucinations. At present there is no change to the UK product information for Tamiflu and patients should continue to take Tamiflu as advised by their healthcare provider. The MHRA assessment is that the benefit-risk balance for Tamiflu remains positive.

### **Scientific Advance: Preliminary estimate for the reproduction number of influenza A(H1N1)v in New Zealand.**

Nishiura H, Wilson N, Baker M. Estimating the reproduction number of the novel influenza A virus (H1N1) in a Southern Hemisphere setting: preliminary estimate in New Zealand *New Zealand Med J* 2009; 122, No. 1299

A recent study has estimated the early effective reproduction number  $R$  in New Zealand by analyzing early national data. The authors estimated a value of  $R$  of 1.96 (95% confidence interval 1.80 – 2.15), when assuming a generation time of 2.8 days. This would correspond to a final cumulative attack rate of 78.6 % (including both clinical and asymptomatic infections) of the total population. The authors acknowledge this is almost certainly an over-estimate as it assumes homogenous mixing, that countermeasures were ineffective and there was a wholly susceptible population. The methodology used is also very sensitive to "noise", that is random deviations on the data.

The full original article is available at: <http://www.nzma.org.nz/journal/122-1299/3722/>

The ECDC Scientific Advance commentary is available at: <http://ecdc.europa.eu/en/activities/sciadvice/Lists/ECDC%20Reviews/DispForm.aspx?ID=639>

### **Changing the format of the daily report**

As the influenza pandemic evolves, new types of data become increasingly important, whereas other may become less interesting. ECDC has refreshed the format of the Situation Update to better accommodate current and anticipated information needs. The name of this report changed to "Daily Update" and some changes have been made in the data reported.

Table 1 – reported cases by the EU/EFTA countries remains as before. In addition, we are publishing a new Table 2 on the number of current and cumulative hospitalisations and admission to intensive care in EU/EFTA Member States. The source of the information is official statements or surveillance reports published by national health authorities. It should be noted that indications and thresholds for hospitalisations vary by country, so the figures quoted may not be directly comparable between countries.

Assuming no changes in the national reporting system, trends of hospitalisations over time should give an accurate representation of the evolution of the pandemic. This might change if countries are faced with capacity issues within the healthcare system at a later stage of this evolving pandemic.

Table 3 lists only reported deaths for countries outside the EU/EFTA area; we have discontinued reporting the case numbers for these countries. The main reason for this is that more and more countries have stopped the reporting of new cases, and these figures no longer give a representative picture of the situation.

The two graphs now show number of reported deaths by week of report – one graph for EU/EFTA, one for the entire world. The two maps depict cumulative deaths by country, one for EU/EFTA, one for the world.

**Table 1: Reported new confirmed cases and cumulative number of influenza A(H1N1)v and cumulative deaths among confirmed cases by country as of 19 August 2009, 16:00 hours (CEST) in the EU and EFTA countries**

Country	Confirmed cases reported in the last 24h	Cumulative number of confirmed cases	Deaths among confirmed cases <sup>a</sup>
Austria	-	222	-
Belgium	-	126	1
Bulgaria	6	57	-
Cyprus	-	297	-
Czech Republic	-	209	-
Denmark	-	444	-
Estonia	1	57	-
Finland	4	204	-
France <sup>b</sup>	-	1125	1
Germany	337	12830	-
Greece	-	1424	-
Hungary	2	145	1
Iceland	-	135	-
Ireland	-	574	2
Italy	-	1238	-
Latvia	-	23	-
Liechtenstein	-	5	-
Lithuania	-	40	-
Luxemburg	-	118	-
Malta	-	231	1
Netherlands <sup>c</sup>	-	1473	1
Norway	-	868	-
Poland	2	152	-
Portugal	257	1634	-
Romania	7	269	-
Slovakia	1	99	-
Slovenia	1	203	-
Spain	-	1538	12
Sweden	70	672	-
Switzerland	41	841	-
United Kingdom <sup>d</sup>	-	12903	44
<b>Total</b>	<b>729</b>	<b>40156</b>	<b>63</b>

Note: cases reported in the EU and EFTA countries correspond to the EWRS notifications by Member States or Ministry of Health websites. *Countries shaded with gray are not recommending laboratory tests for all suspect cases, therefore comparisons in time or between these countries should not be made at present.*

<sup>a</sup> Deaths are included in the cumulative number of confirmed cases

<sup>b</sup> Cases reported from France include those reported from the overseas territories (434)

<sup>c</sup> Cases from the Netherlands include those reported from Aruba and the Dutch Antilles

<sup>d</sup> Cases reported from the United Kingdom include the number of individual cases from the following overseas territories: Anguilla, The Falklands, Gibraltar, Sovereign Base Area Cyprus, Turks and Caicos Islands (78)

**Table 2: Reported number of confirmed influenza A(H1N1)v cases admitted to hospitals and intensive care by country as of 18 August 2009, 16:00 hours (CEST) in the EU and EFTA countries**

Country (date of report)	Most recent number of cases admitted in hospitals	Cumulative number of cases admitted in hospitals	Most recent number of cases admitted to intensive care	Cumulative number of cases admitted to intensive care
Austria (7.8.)	0	-	0	-
Belgium (7.8.)	0	-	0	-
Bulgaria	-	-	-	-
Cyprus	-	-	-	-
Czech Republic (17.8.)	0	-	0	-
Denmark (13.8.)	-	-	-	-
Estonia (14.8.)	0	0	0	0
Finland (18.8.)	-	-	-	-
France <sup>a</sup> (12.8.)	5	53	4	10
Germany (19.8.)	-	-	-	-
Greece (13.8.)	-	-	1	-
Hungary (7.8.)	-	-	-	-
Iceland (7.8.)	0	0	0	0
Ireland (13.8.)	4	41	-	-
Italy (17.7.)	-	-	-	-
Latvia (13.8.)	-	1	-	-
Liechtenstein (13.8.)	-	-	-	-
Lithuania (13.8.)	-	-	-	-
Luxemburg (14.8.)	-	-	0	0
Malta	-	-	-	-
Netherlands (14.8.)	-	28	-	-
Norway (12.8.)	-	-	-	-
Poland (18.8.)	-	-	-	-
Portugal (18.8.)	9	-	4	-
Romania	-	18	-	-
Slovakia (12.8.)	2	33	0	0
Slovenia (10.8.)	-	-	-	-
Spain (14.8.)	-	-	29	77
Sweden (6.8.)	-	-	-	-
Switzerland (18.8.)	-	11	-	1
United Kingdom <sup>b</sup> (13.8.)	371	-	55	-

Note: Data for the EU and EFTA countries correspond to the Ministry of Health or surveillance centre websites. New updates are shaded in yellow. (-) denotes no information readily available in official sources.

<sup>a</sup>Cases reported from France include those reported from the overseas territories. <sup>b</sup>Data for England only. Does not include Scotland (94 cumulative hospitalisations), Wales (33) and Northern Ireland (14).

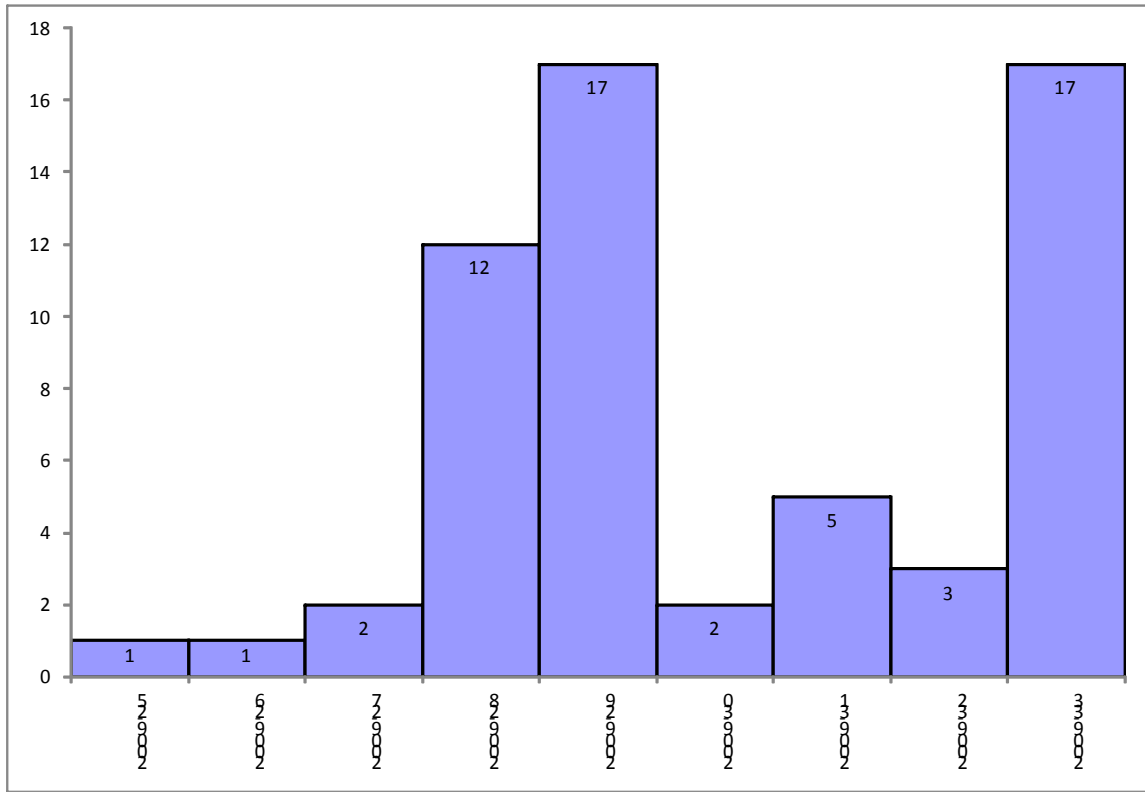
**Table 3. Reported number of new and cumulative confirmed fatal pandemic influenza (H1N1) 2009 cases by country as of 19 August 2009, 16:00 hours (CEST) outside of the EU/EFTA area**

Country	Number of new fatal cases since previous national update	Cumulative number of fatal cases
<b>OTHER EUROPEAN COUNTRIES &amp; CENTRAL ASIA</b>		
No deaths reported	-	-
<b>MEDITERRANEAN AND MIDDLE-EAST</b>		
Egypt	-	1
Iraq	-	1
Israel	-	10
Lebanon	-	1
Occupied Palestinian Territory	-	1
Qatar	-	1
Saudi Arabia	-	14
Yemen	1	1
<b>AFRICA</b>		
Ghana	-	1
Mauritius	-	3
South Africa	-	6
<b>NORTH AMERICA</b>		
Canada	1	67
Mexico	1	164
USA	-	477
<b>CENTRAL AMERICA &amp; CARIBBEAN</b>		
Cayman Islands	-	1
Costa Rica	-	29
Dominican Republic	-	5
El Salvador	-	12
Guatemala	-	10
Honduras	-	7
Jamaica	-	4
Nicaragua	-	1
Panama	-	6
Saint Kitts and Nevis	-	1
<b>SOUTH AMERICA</b>		
Argentina	-	404
Bolivia	2	16
Brazil	176	368
Chile	-	112
Colombia	5	23

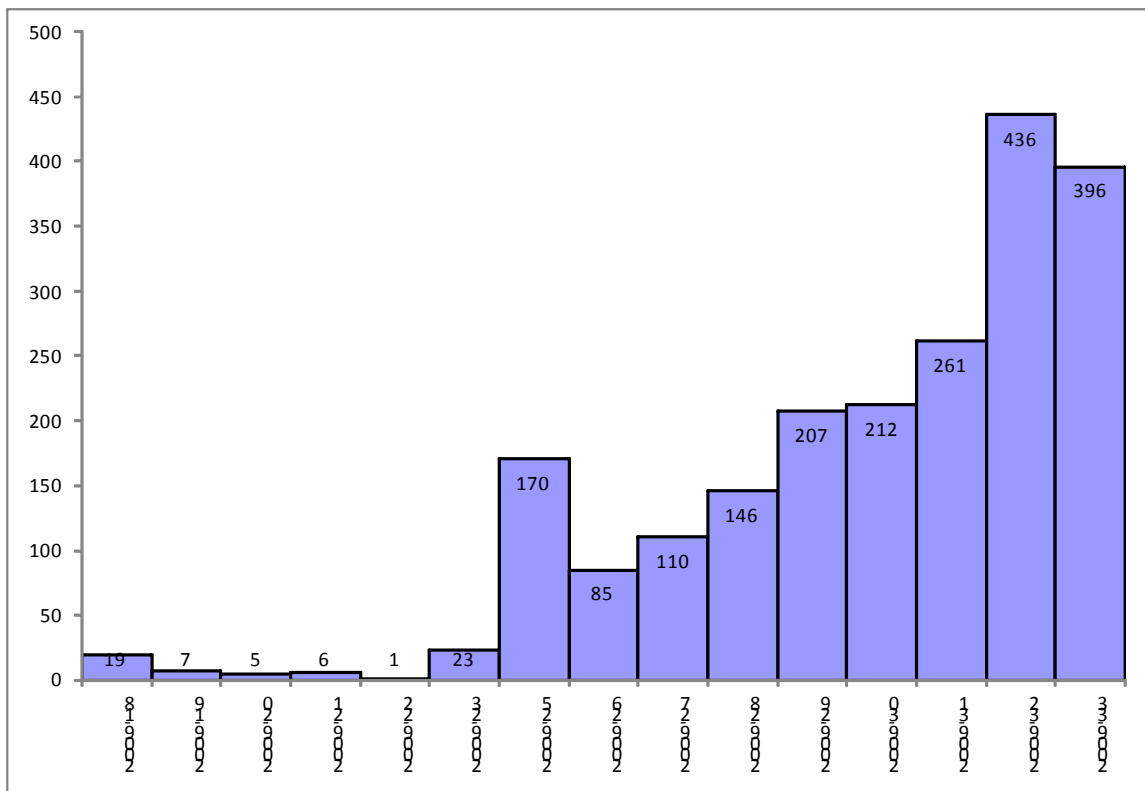
Ecuador	-	23
Paraguay	-	39
Peru	-	62
Uruguay	-	22
Venezuela	-	12
<b>NORTH-EAST &amp; SOUTH ASIA</b>		
Hong Kong SAR China	-	4
India	-	25
Japan	2	3
South Korea	-	2
Taiwan	-	2
<b>SOUTH-EAST ASIA</b>		
Brunei Darussalam	-	1
Indonesia	-	4
Laos Peoples Democratic Republic	-	1
Malaysia	-	67
Philippines	-	8
Singapore	-	11
Thailand	14	111
Vietnam	-	2
<b>AUSTRALIA &amp; PACIFIC</b>		
Australia	3	121
Cook Islands	-	1
New Zealand	-	15
Samoa	-	2
Tonga	-	1
<b>TOTAL</b>	<b>205</b>	<b>2286</b>

Note: cases reported in non-EU and EFTA countries correspond to cases published on Ministry of Health websites, or through WHO, or through credible media source quoting national authorities. Therefore, some of these cases may be taken out at a later stage if not validated. Yellow shading indicates a new update has been recorded for the country during the past 24 hours.

**Figure 1: Number of confirmed deaths among pandemic influenza (H1N1) 2009 cases by week of notification. EU and EFTA countries (upper panel, week 25 to week 33 2009) and world (lower panel, week 18 to week 33).**



Notification week



Notification week

## Reported cumulative number of confirmed fatal cases of influenza A(H1N1)v in EU and EFTA countries, as of 19 August 2009, 16:00 hours CEST



# Reported cumulative number of confirmed fatal cases of influenza A(H1N1)v and country reporting status by country, as of 19 August 2009, 16:00 hours CEST

