

## ECDC DAILY UPDATE

### Pandemic (H1N1) 2009

Update 30 November 2009,  
09:00 hours CEST

## Main developments in past 72 hours

- Influenza activity is high in 27 EU countries and 13 countries report a rising trend;
- More mutations have been reported by EU countries, with a few in the haemagglutinin gene at location 222;
- A total of 858 fatal cases in Europe and EFTA countries and 7 710 in the rest of the world have been reported up to date.

This report is based on official information provided by national public health websites or through other official communication channels. Reported number of confirmed Pandemic (H1N1) 2009 influenza cases admitted to hospitals and intensive care, by country, as of 30 November 2009, 09:00 hours (CEST) in EU and EFTA countries are in Table 1. An update on the number of confirmed fatal cases is presented in Table 2 - as of 29 November 2009 - 16:00 hours CEST, for the world, and 30 November 2009 - 09:00 hours CEST, for Europe.

## Epidemiologic update

### The Weekly Influenza Surveillance Report

All 27 EU and 4 EFTA countries are reporting cases of pandemic (H1N1) 2009 influenza. A total of 858 deaths have been reported since April 2009 (Table 2). Since week 41 the numbers of deaths each has shown a steady increase almost doubling every fortnight over the last six weeks, although there was only a 6% increase in week 47, compared to the previous week. While the most deaths have to date been in Western Europe there are increasing numbers of deaths being reported from Central and Eastern Europe. Latest new and confirmed fatal pandemic (H1N1) cases outside the EU/EFTA area are presented in Table 2 as well. Available updates on hospital admissions, per Member State, can be found in Table 1.

The [Weekly Influenza Surveillance Overview was published on November 27<sup>th</sup> for week 47/2009](#). Twenty four countries reported epidemiological data, the highest total to date for this pandemic. For the activity intensity indicator—national network levels for ILI and/or ARI— Sweden reported very high intensity; Bulgaria, Denmark, Estonia, Germany, Greece, Iceland, Ireland, Latvia, Luxembourg, Norway, Poland and Spain reported high intensity; medium intensity was reported by 9 countries.

For the geographic spread indicator, increases were noted compared to the previous week with 16 countries reporting widespread activity. Seven countries reported regional activity. One country reported local activity. Thirteen countries reported an increasing trend of influenza activity compared to seventeen in the previous week. Countries in Central and Eastern Europe were especially experiencing rising trends. Six countries - Belgium, Bulgaria, Iceland, Ireland, Norway, Netherlands and parts of the UK (Northern Ireland and Wales), reported decreasing trends. Belgium, Bulgaria, Iceland, Ireland, Norway and the UK (Northern Ireland) reported decreasing trends in week 46 as well. In most countries where influenza activity has risen above baseline levels, the most affected group includes those younger than 15 years. Virological data indicate very few influenza strains apart from the pandemic strain were identified. The proportion of sentinel specimens that are confirmed influenza is 44%, a high level normally only seen during the peaks of previous winter influenza epidemics.

## Other updates

### Mutations in the haemagglutinin HA1 gene D222G

Following initial reports from Norway, WHO has noted that a spontaneous mutation in the haemagglutinin gene D222G has been observed in at least seven countries world-wide (1). These spontaneous mutations have been detected retrospectively following genetic sequencing. They were first detected in April and were seen in Mexico and the USA and so are not a recent phenomenon (1,2). Finnish and French virologists reported another three cases last week (3). As in a number of the cases the viruses were reported from two patients with very severe illness who died. WHO and ECDC are currently assessing the public health significance of this mutation (1,2). It is unclear whether the mutation is especially pathogenic or whether it is somehow selected for in very ill patients. However there is no evidence that the virus is transmitting, none of the patients are reported to be connected to each other and the mutation is not spreading in Europe. As further sequencing is undertaken reports of its detection in other European countries can be expected.

WHO Public health significance of virus mutation detected in Norway November 20th 2009  
[http://www.who.int/csr/disease/swineflu/notes/briefing\\_20091120/en/index.html](http://www.who.int/csr/disease/swineflu/notes/briefing_20091120/en/index.html)

WHO virtual press conference 26 November (transcript)  
[http://www.who.int/mediacentre/vpc/transcript\\_26\\_november\\_09\\_fukuda.pdf](http://www.who.int/mediacentre/vpc/transcript_26_november_09_fukuda.pdf)

INVS Communiqué de presse Grippe A (H1N1) 2009 : le point en France métropolitaine le 27 novembre 2009  
[http://www.invs.sante.fr/display/?doc=presse/2009/communiqués/cp\\_h1n1\\_271109/index.html](http://www.invs.sante.fr/display/?doc=presse/2009/communiqués/cp_h1n1_271109/index.html)

**Table 1: Reported number of confirmed Pandemic (H1N1) 2009 influenza cases admitted to hospitals and intensive care, by country, as of 30 November 2009, 09:00 hours (CEST) in EU and EFTA countries**

Country (date of report)	Number of cases currently hospitalised	Cumulative number of cases admitted in hospitals	Number of cases currently in intensive care	Cumulative number of cases admitted to intensive care
Austria (18.11.)	-	-	-	-
Belgium (26.11.)	-	-	-	-
Bulgaria (22.11)	-	-	-	-
Cyprus(23.11)	-	-	-	6
Czech Republic (26.11.)	-	-	-	-
Denmark (25.11.)	-	-	-	-
Estonia (25.11.)	-	-	-	-
Finland (27.11.)	4	-	7	-
France (24.11.)	43	357	-	-
Germany (26.11.)	-	-	-	-
Greece (15.11.)	-	-	-	-
Hungary (22.11.)	-	-	-	-
Iceland (26.11.)	5	180	1	20
Ireland (25.11.)	211	941	18	77
Italy (27.11)	-	600	-	315
Latvia (25.11.)	-	-	-	-
Liechtenstein (26.11.)	-	-	-	-
Lithuania (04.11.)	-	-	-	-
Luxembourg (16.11.)	-	-	0	0
Malta (04.09.)	-	46	-	1
Netherlands (27.11.)	289	1587	29	167
Norway (25.11.)	60	1102	13	127
Poland (23.11.)	-	-	-	-
Portugal (25.11.)	148	-	20	-
Romania (23.11)	10	-	5	-
Slovakia (25.11.)	13	51	-	-
Slovenia (10.08.)	-	-	-	-
Spain (26.11.)	-	-	-	-
Sweden (22.11.)	206	836	-	-
Switzerland (26.11.)	23	127	-	30
United Kingdom <sup>a</sup> (26.11.)	753	-	154	-

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

<sup>a</sup>Data includes all probable cases for England only. Does not include Scotland (1104 cumulative hospitalisations), Wales (411) and Northern Ireland (558).

**Table 2. Reported number of new and cumulative confirmed fatal Pandemic (H1N1) 2009 influenza cases in EU and EFTA countries, as 30 November 2009, 09:00 hours CEST, and in the rest of the world by country, as of 29 November 2009, 16:00 hours CEST.**

Country	Number of new fatal cases since previous national update	Cumulative number of fatal cases
<b>EU AND EFTA COUNTRIES</b>		
Austria	-	3
Belgium	-	13
Bulgaria	-	5
Czech Republic	2	8
Denmark	-	5
Estonia	-	1
Finland	-	16
France	8	104 <sup>a</sup>
Germany	7	59
Greece	-	12
Hungary	1	8
Iceland	-	2
Ireland	-	17
Italy	2	93
Latvia	-	5
Lithuania	-	2
Luxembourg	-	2
Malta	-	3
Netherlands	-	36
Norway	-	25
Poland	-	16
Portugal	-	18
Romania	1	3
Slovakia	-	1
Slovenia	-	2
Spain	-	135
Sweden	-	15
Switzerland	-	3
United Kingdom	1	246
<b>Total</b>	<b>22</b>	<b>858</b>
<b>OTHER EUROPEAN COUNTRIES &amp; CENTRAL ASIA</b>		
Azerbaijan	-	2
Belarus	-	20
Bosnia and Herzegovina	-	1
Croatia	-	11

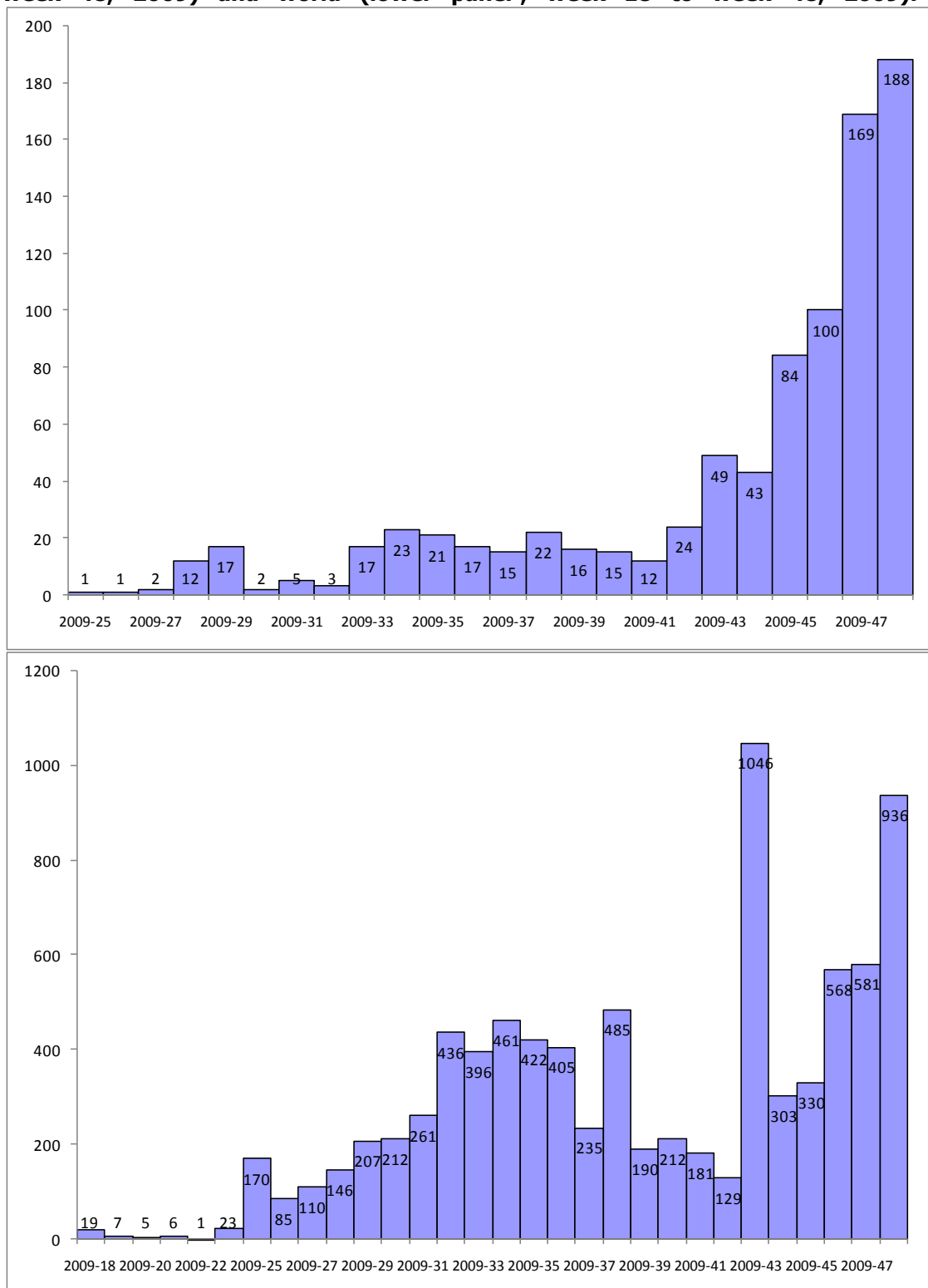
Former Yugoslav Republic of Macedonia	1	3
Kosovo	-	7
Moldova	-	11
Russia	-	19
Serbia	-	17
Ukraine	-	18
<b>Total</b>	<b>1</b>	<b>109</b>
<b>MEDITERRANEAN AND MIDDLE-EAST</b>		
Algeria	-	3
Bahrain	-	7
Egypt	7	20
Iran	-	140
Iraq	-	10
Israel	-	55
Jordan	-	14
Kuwait	-	27
Lebanon	-	3
Morocco	-	1
Occupied Palestinian Territory	-	9
Oman	-	27
Qatar	-	8
Saudi Arabia	-	81
Syria	-	50
Tunisia	-	2
Turkey	-	161
United Arab Emirates	-	6
Yemen	-	22
<b>Total</b>	<b>7</b>	<b>646</b>
<b>AFRICA</b>		
Ghana	-	1
Madagascar	-	1
Mauritius	-	8
Mozambique	-	2
Namibia	-	1
Sao Tome & Principe	-	2
South Africa	-	91
Sudan	-	1
Tanzania	-	1
<b>Total</b>	<b>-</b>	<b>108</b>
<b>NORTH AMERICA</b>		

Canada	-	309
Mexico	-	610
USA	-	1265
<b>Total</b>	<b>-</b>	<b>2184</b>
<b>CENTRAL AMERICA &amp; CARIBBEAN</b>		
Bahamas	-	4
Barbados	-	3
Cayman Islands	-	1
Costa Rica	-	40
Cuba	-	7
Dominican Republic	-	22
El Salvador	-	27
Guatemala	-	18
Honduras	-	16
Jamaica	-	6
Nicaragua	-	11
Panama	-	11
Saint Kitts and Nevis	-	1
Saint Lucia	-	1
Suriname	-	2
Trinidad-Tobago	-	5
<b>Total</b>	<b>-</b>	<b>175</b>
<b>SOUTH AMERICA</b>		
Argentina	3	613
Bolivia	1	58
Brazil	-	1528
Chile	-	148
Colombia	-	160
Ecuador	-	82
Paraguay	-	52
Peru	-	190
Uruguay	-	33
Venezuela	1	114
<b>Total</b>	<b>5</b>	<b>2978</b>
<b>NORTH-EAST &amp; SOUTH ASIA</b>		
Afghanistan	-	14
Bangladesh	-	6
China (Mainland)	-	104
Hong Kong SAR China	-	41
India	8	569

Japan	-	28
Macao SAR China	-	2
Maldives	-	1
Mongolia	-	18
Pakistan	-	1
South Korea	-	104
Sri Lanka	-	5
Taiwan	-	30
<b>Total</b>	<b>8</b>	<b>923</b>
<b>SOUTH-EAST ASIA</b>		
Brunei Darussalam	-	1
Cambodia	-	5
Indonesia	-	10
Laos Peoples Democratic Republic	-	1
Malaysia	-	77
Philippines	-	30
Singapore	-	19
Thailand	-	187
Vietnam	-	41
<b>Total</b>	<b>-</b>	<b>371</b>
<b>AUSTRALIA &amp; PACIFIC</b>		
Australia	-	190
Cook Islands	-	1
Marshall Islands	-	1
New Zealand	-	20
Samoa	-	2
Solomon Islands	-	1
Tonga	-	1
<b>Total</b>	<b>-</b>	<b>216</b>
<b>TOTAL</b>	<b>43</b>	<b>8568</b>

<sup>a</sup> Deaths reported from France include 1 in Guyana, 9 in New Caledonia, 7 in the French Polynesia, 7 in the Reunion, 1 in Martinique, 2 in Mayotte, 1 in Guadeloupe and 76 in mainland France.

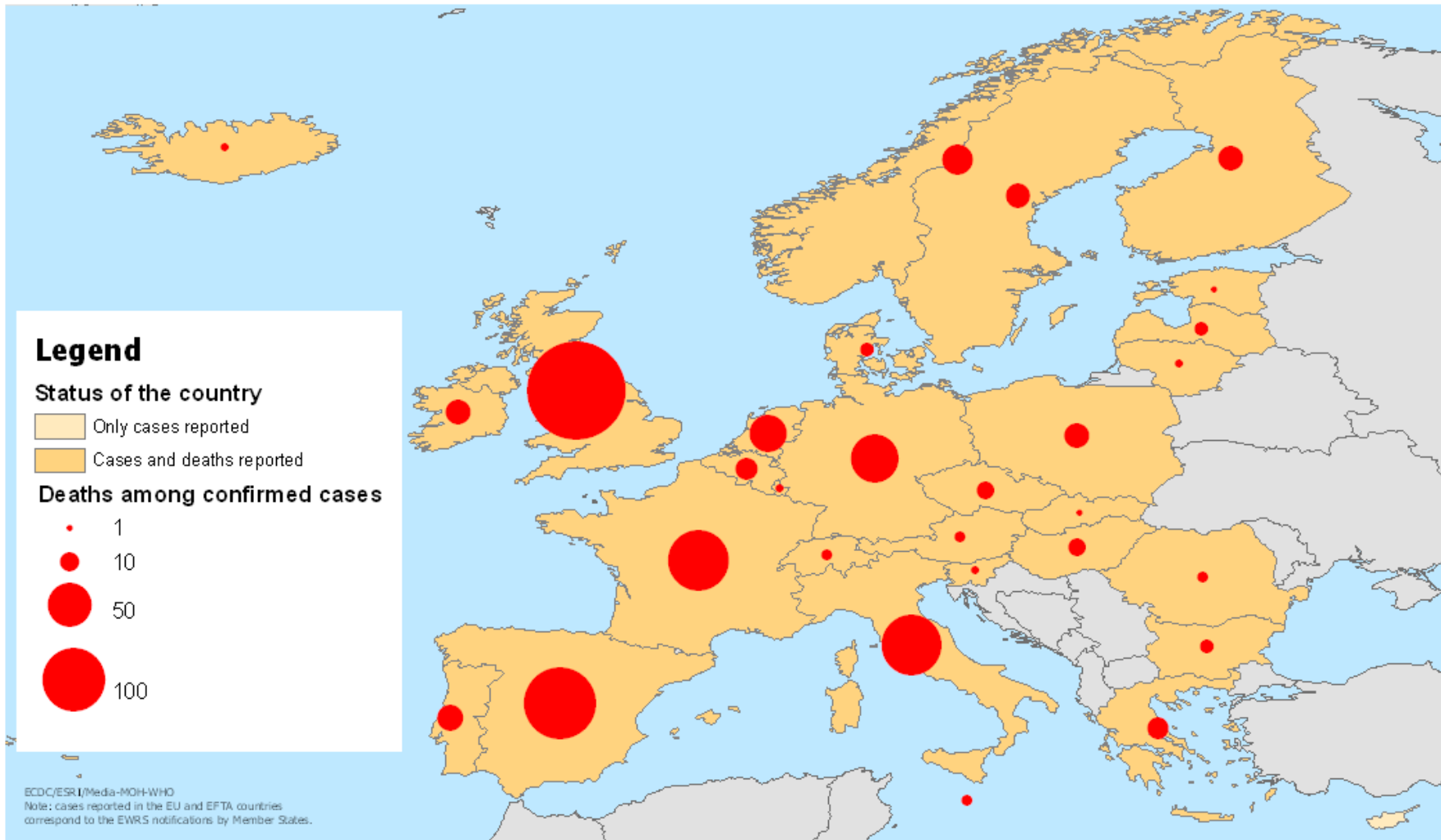
**Figure 1: Number of confirmed deaths among pandemic (H1N1) 2009 influenza cases by week of notification. EU and EFTA countries (upper panel, week 25 to week 48, 2009) and world (lower panel<sup>a</sup>, week 18 to week 48, 2009).**



Notification week

<sup>a</sup> The apparent increase in the number of deaths in week 43 is due to the aggregate reporting of fatal cases from Brazil from weeks 37 to 40 and to our batch report of US fatal cases since August 1<sup>st</sup>.

# Reported cumulative number of confirmed fatal cases of influenza A(H1N1)v in EU and EFTA countries, as of 30 November 2009, 09:00 hours CEST



## Reported cumulative number of confirmed fatal cases of influenza A(H1N1)v and country reporting status by country, as of 29 November 2009, 16:00 hours CEST

