

## ECDC DAILY UPDATE

### 2009 influenza A (H1N1) pandemic

15 January 2010  
09.00 CEST

### Main developments in the past 24 hours

- A total of 2 271 fatal cases in Europe and EFTA countries and 11 978 in the rest of the world have been reported up to date.
- Selected Scientific Publications (08<sup>TH</sup> Jan 2010 - 14<sup>TH</sup> Jan 2010) published.

This report is based on official information provided by national public health websites or through other official communication channels. Reported number of confirmed 2009 pandemic influenza A (H1N1) cases admitted to hospitals and intensive care, by country, as of 15 January 2010, 09.00 CEST in EU and EFTA countries are in Table 1. An update on the number of confirmed fatal cases for the world and Europe is presented in Table 2.

### Epidemiologic update

All 27 EU and 4 EFTA countries are reporting cases of pandemic (H1N1) 2009 influenza. A total of 2 271 deaths have been reported since April 2009 (Table 2). From week 41 to 51 the numbers of deaths each had shown a steady increase almost doubling every fortnight over six weeks. The fall observed in weeks 52 and 53 was to be expected as it represents official reports placed on national web-sites and a number of Member States have not been doing this in what was a holiday 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. The reported cumulative fatal pandemic (H1N1) cases in the world have now passed 10,000 cases (Table 2). However, because of lack of laboratory confirmation and underreporting among other factors, this is likely to be a gross underestimation of the true number of fatalities associated with the pandemic. Available updates on hospital admissions, per Member State, can be found in Table 1.

## Selected Scientific Publications (08<sup>TH</sup> Jan 2010 - 14<sup>TH</sup> Jan 2010)

### **Clinical presentation and response to treatment of novel influenza A H1N1 in a university-based summer camp population**

Tsalik EL, Hendershot EF, Sangvai DG et al.

Journal of Clinical Virology, Jan 9<sup>th</sup> 2010

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/20064740?dopt=Abstract>

This study aimed at describing the clinical presentation and course of novel H1N1 influenza in summer camps through active daily surveillance, medical evaluation at symptom onset and data collection during isolation; it also had the objective of evaluating the effect of influenza treatment in a summer camp population. The conclusions prove that the 2009 pandemic influenza A(H1N1) generally has a mild, self-limited course in healthy adolescent campers and that their recovery normally occur within 72h and it is unaffected by treatment.

### **Initial Response of Health Care Institutions to Emergence of H1N1 Influenza: Experiences, Obstacles, and Perceived Future Needs.**

Lautenbach E, Saint S, Henderson DK, Harris AD

Clinical Infectious Diseases, Jan 11<sup>th</sup> 2010

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/20064038?dopt=Abstract>

This is a cross-sectional survey carried out by the Society for Healthcare Epidemiology of America to assess attitudes and responses of health care epidemiology professionals to the H1N1 influenza crisis. Although generally institutions are well prepared for the H1N1 crisis, substantial revisions of pandemic preparedness plans appear to be necessary. The authors of this survey noted that future efforts to optimize the response to H1N1 should include curtailing personal stockpiling of antivirals and vaccine development with consideration of mandatory vaccination of health care workers.

### **Patients Hospitalized with 2009 Pandemic Influenza A (H1N1) --- New York City, May 2009**

MMWR; January 8<sup>th</sup> 2010 / 58(51&52); 1436-1440

Available from: [http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5851a2.htm?s\\_cid=mm5851a2\\_x](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5851a2.htm?s_cid=mm5851a2_x)

This review was conducted to assess rapidly, in the first days of the NYC H1N1 outbreak, the characteristics and severity of illness in hospitalized patients in New York City. All data were collected within 2 weeks and results were available quickly to DOHMH to inform outbreak response measures. A key finding was that the first hospitalized patients in New York City were in younger age groups (91% of these patients were aged <50 years, and 59% were aged <18 years). Only one patient was aged ≥65 years, the most commonly hospitalized group for seasonal influenza. These findings were consistent with other descriptions of hospitalized persons with H1N1, and contributed to a growing body of national epidemiologic data that later informed ACIP recommendations regarding target groups for the forthcoming monovalent H1N1 vaccine.

### **Update on the 2009 pandemic influenza A H1N1 in children**

Halasa NB

Curr Opin Pediatr. 2010 Feb; 22(1):83-7

Available from: <http://www.ncbi.nlm.nih.gov/pubmed/20068413?dopt=Abstract>

This author presents an updated review of the epidemiology, clinical presentations, and outcomes of the 2009 pandemic influenza A H1N1 in children. As findings, he mentions that the majority of cases of 2009 pandemic influenza A H1N1 in children have been mild. However, neurological complications, hospitalization, and even deaths have been reported in children. Death and severe illnesses have mostly occurred in children below 5 years of age and children with high-risk conditions. Co-infections with bacteria have also been reported. Most strains are sensitive to oseltamivir and all to zanamivir.

**Table 1. Reported number of confirmed 2009 pandemic influenza A(H1N1) cases admitted to hospitals and intensive care, by country, as of 15 January 2010, 09.00 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 (14.01.)	35	-	-	-
Belgium (14.01.)	-	-	-	-
Bulgaria (27.12)	-	-	-	-
Cyprus(13.01)	-	-	3	27
Czech Republic (06.01.)	-	-	-	-
Denmark (13.01.)	-	-	2	84
Estonia (10.01.)	-	-	-	-
Finland (23.12.)	2	-	6	-
France (12.01.)	-	-	15	1190
Germany (12.01.)	-	-	-	-
Greece (13.01.)	-	-	-	-
Hungary (30.12.)	-	-	-	-
Iceland (10.12.)	3	180	1	20
Ireland (13.01.)	150	1052	6	90
Italy (14.12.)	-	938	-	454
Latvia (14.01.)	-	-	-	-
Liechtenstein (14.01.)	-	-	-	-
Lithuania (08.01.)	-	-	-	-
Luxembourg (27.12.)	-	-	0	0
Malta (04.09.)	-	46	-	1
Netherlands (08.01.)	-	2178	-	-
Norway (13.01.)	-	1319	2	174
Poland (31.12.)	-	-	-	-
Portugal (13.01.)	39	-	7	-
Romania (14.01.)	-	-	-	-
Slovakia (12.01.)	38	305	12	110
Slovenia (14.01.)	16	-	-	-
Spain (30.12.)	-	-	-	-
Sweden (14.01.)	1	1352	-	-
Switzerland (14.01.)	6	528	-	94
United Kingdom* (14.01.)	268	-	79	-

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 highlighted in gray. (-) denotes no information readily available in official sources.

\* Data includes information for England only. Other cumulative hospitalisations are: Scotland (1517), Wales (444) and Northern Ireland (578).

**Table 2. Reported number of new and cumulative confirmed fatal 2009 pandemic influenza A(H1N1) cases in EU and EFTA countries, as 15 January 2010, 09.00 CEST, and in the rest of the world by country, as of 14 January 2010, 16.00 CEST.**

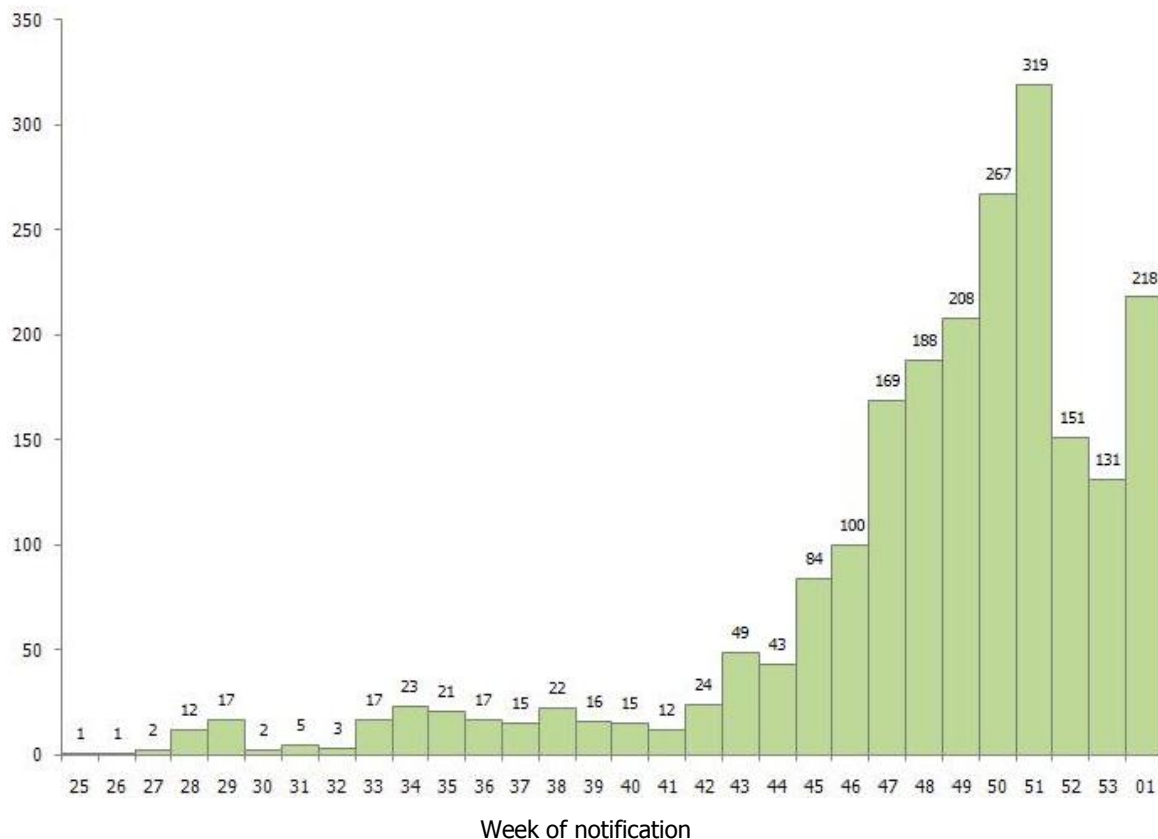
Country	Number of new fatal cases since previous national update	Cumulative number of fatal cases
<b>EU and EFTA countries</b>		
Austria	-	24
Belgium	-	17
Bulgaria	-	35
Cyprus	-	6
Czech Republic	10	77
Denmark	-	30
Estonia	-	13
Finland	5	41
France	6	278*
Germany	-	178
Greece	11	93
Hungary	-	57
Iceland	-	2
Ireland	-	22
Italy	-	200
Latvia	-	31
Lithuania	-	19
Luxembourg	-	3
Malta	-	4
Netherlands	-	54
Norway	-	29
Poland	-	148
Portugal	-	83
Romania	4	100
Slovakia	-	38
Slovenia	1	15
Spain	-	271
Sweden	-	25
Switzerland	1	16
United Kingdom	-	362
<b>Total</b>	<b>38</b>	<b>2271</b>
<b>Other European countries and central Asia</b>		
Albania	-	6
Armenia	-	3
Belarus	-	20
Bosnia and Herzegovina	-	10
Croatia	-	25
Former Yugoslav Republic of Macedonia	-	23
Georgia	-	20
Kosovo	-	14
Moldova	-	35
Montenegro	-	7
Russia	-	19
Serbia	3	71
Ukraine	-	202
<b>Total</b>	<b>3</b>	<b>455</b>
<b>Mediterranean and Middle-East</b>		
Algeria	3	57
Bahrain	-	7
Egypt	5	210
Iran	-	147
Iraq	-	42
Israel	-	85
Jordan	-	19
Kuwait	-	30
Lebanon	-	5
Libya	-	1

Country	Number of new fatal cases since previous national update	Cumulative number of fatal cases
Morocco	-	53
Occupied Palestinian Territory	-	28
Oman	-	31
Qatar	-	8
Saudi Arabia	-	124
Syria	-	127
Tunisia	-	21
Turkey	-	415
United Arab Emirates	-	6
Yemen	-	28
<b>Total</b>	<b>8</b>	<b>1444</b>
<b>Africa</b>		
Ghana	-	1
Madagascar	-	3
Mauritius	-	8
Mozambique	-	2
Namibia	-	1
Sao Tome & Principe	-	2
South Africa	-	93
Sudan	-	5
Tanzania	-	1
<b>Total</b>	<b>-</b>	<b>116</b>
<b>North America</b>		
Canada	-	416
Mexico	-	896
USA	-	2328
<b>Total</b>	<b>-</b>	<b>3640</b>
<b>Central America and Caribbean</b>		
Bahamas	-	4
Barbados	-	3
Bermuda	-	1
Cayman Islands	-	1
Costa Rica	-	47
Cuba	-	53
Dominican Republic	-	23
El Salvador	-	32
Guatemala	-	18
Honduras	-	16
Jamaica	-	7
Nicaragua	-	11
Panama	-	11
Saint Kitts and Nevis	-	2
Saint Lucia	-	1
Suriname	-	2
Trinidad-Tobago	-	5
<b>Total</b>	<b>-</b>	<b>237</b>
<b>South America</b>		
Argentina	-	617
Bolivia	-	59
Brazil	-	1632
Chile	-	150
Colombia	-	198
Ecuador	-	117
Paraguay	-	52
Peru	-	208
Uruguay	-	33
Venezuela	-	124
<b>Total</b>	<b>-</b>	<b>3190</b>
<b>North-East and South Asia</b>		
Afghanistan	-	17
Bangladesh	-	6

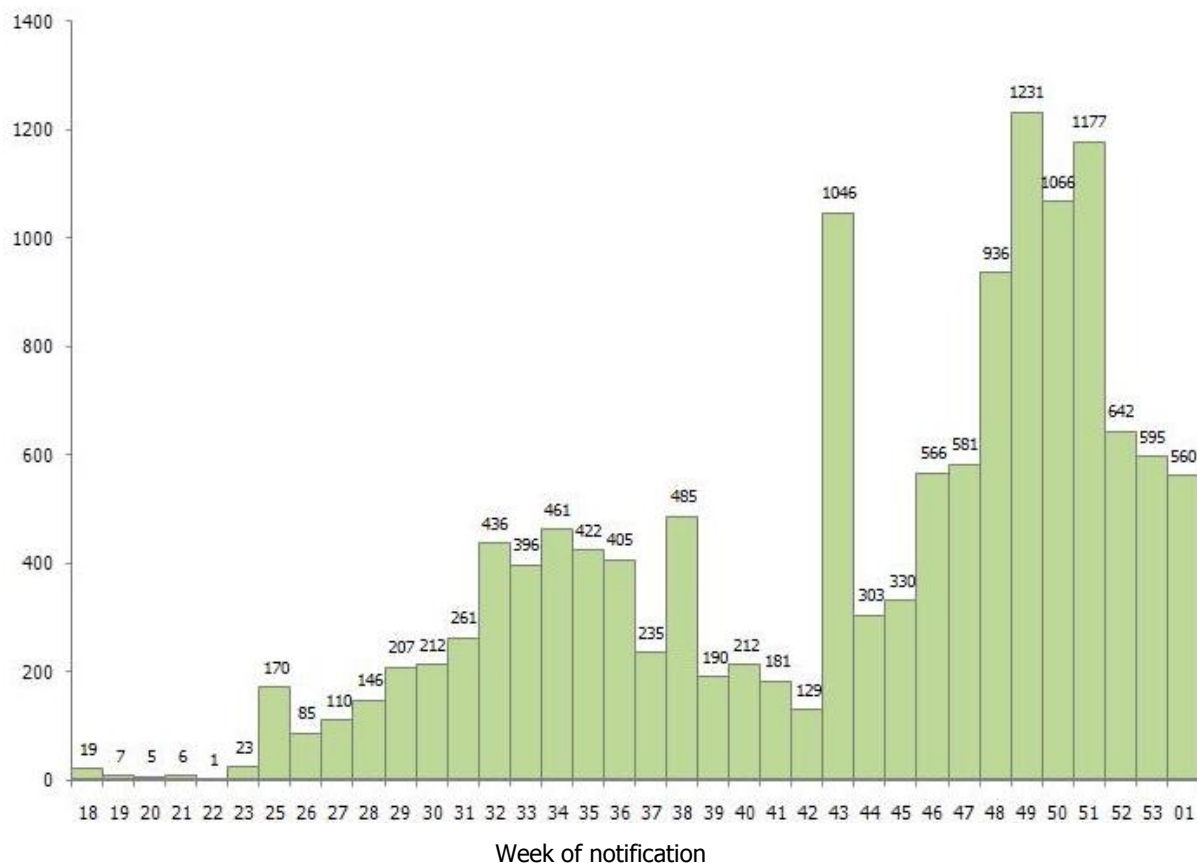
Country	Number of new fatal cases since previous national update	Cumulative number of fatal cases
China (Mainland)	7	666
Hong Kong SAR China	1	56
India	32	1098
Japan	-	145
Macao SAR China	-	2
Maldives	-	1
Mongolia	-	28
Nepal	-	2
Pakistan	-	14
South Korea	-	170
Sri Lanka	-	45
Taiwan	-	36
<b>Total</b>	<b>40</b>	<b>2286</b>
<b>South-East Asia</b>		
Brunei Darussalam	-	1
Cambodia	-	6
Indonesia	-	10
Laos Peoples Democratic Republic	-	1
Malaysia	-	77
Philippines	-	30
Singapore	-	19
Thailand	-	196
Vietnam	-	53
<b>Total</b>	<b>-</b>	<b>393</b>
<b>Australia and Pacific</b>		
Australia	-	191
Cook Islands	-	1
Marshall Islands	-	1
New Zealand	-	20
Samoa	-	2
Solomon Islands	-	1
Tonga	-	1
<b>Total</b>	<b>-</b>	<b>217</b>
<b>TOTAL</b>	<b>89</b>	<b>14249</b>

\* Deaths reported from France include 1 in Guyana, 9 in New Caledonia, 7 in the French Polynesia, 7 in La Réunion, 1 in Martinique, 2 in Mayotte, 5 in Guadeloupe and 240 in mainland France.

**Figure 1. Number of confirmed deaths among 2009 pandemic influenza A(H1N1) cases by week of notification in EU and EFTA countries**

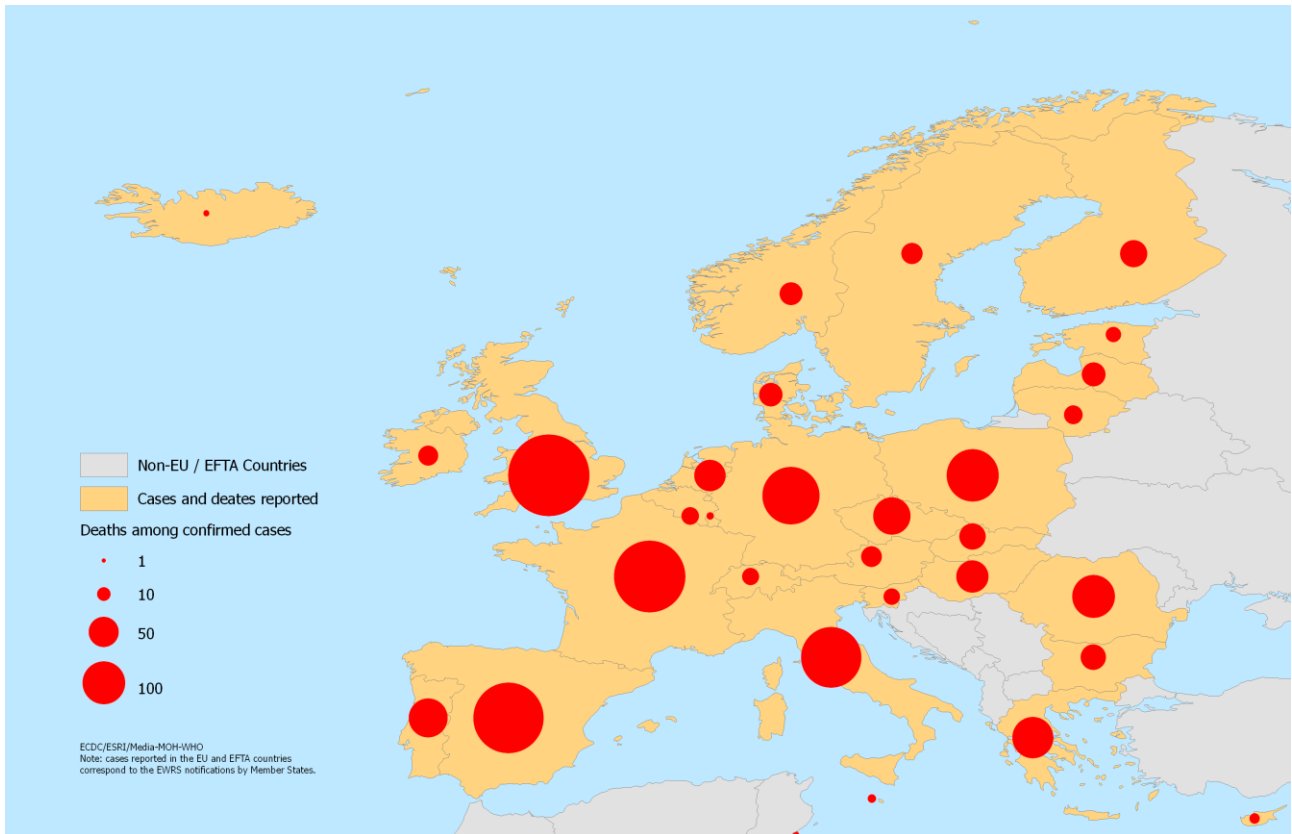


**Figure 2. Number of confirmed deaths among 2009 pandemic influenza A(H1N1) 2009 influenza cases by week of notification in the rest of the world\*.**



\* 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 1 August 2009.

**Figure 3.** Reported cumulative number of confirmed fatal cases of 2009 pandemic influenza A(H1N1) in EU and EFTA countries, as of 15 January 2010, 09.00 CEST



**Figure 4.** Reported cumulative number of confirmed fatal cases of 2009 pandemic influenza A(H1N1) and country status, by country, as of 14 January 2010, 16.00 CEST

