

## ECDC DAILY UPDATE

### Pandemic (H1N1) 2009

Update 27 October 2009,  
09:00 hours CEST

## Main developments in past 24 hours

- Update from U.S.A. indicates ILI rates above threshold and pneumonia and influenza-related mortality above threshold level for season;
- Total of 280 fatal cases in Europe and EFTA countries and 5 642 in the rest of the world have been reported up to date.

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 fatal cases, as of 26 October 2009 16:00 hours CEST, for the world, and 27 October 09:00 hours CEST, for Europe is presented in Table 2.

## Updates from U.S.A. and Canada

### United States Update

Data as of 23 October 2009 16:00 CEST, for week ending 17 October, 2009 (Week 41)

**Virology:** 100% of all subtyped influenza A viruses reported to CDC were 2009 influenza A (H1N1) viruses. 99.8% of all specimens were type A and 0.2% were type B. 2009 influenza A (H1N1) viruses continue to be similar to the strain chosen for the vaccine. Since September 1, 2009, five infections with oseltamivir resistant 2009 influenza A (H1N1) viruses have been identified in the United States. The 5 cases represent an increase of one case over the previous week. Since the emergence of the 2009 influenza A (H1N1), all isolates tested have been resistant to the adamantanes (amantadine and rimantadine).

**Mortality Surveillance:** Pneumonia and Influenza Hospitalization and Deaths:

From August 30 – October 17, 2009, 8,204 laboratory-confirmed influenza associated hospitalizations, 411 laboratory-confirmed influenza associated deaths, 21,823 pneumonia and influenza syndrome-based hospitalizations, and 2,416 pneumonia and influenza syndrome-based deaths, were reported to CDC. Pneumonia and Influenza (P&I) Mortality Surveillance: During week 41, 6.9% of all deaths reported through the 122-Cities Mortality Reporting System were due to P&I. This percentage was above the epidemic threshold of 6.6% for week 41 and the percentage has been above the threshold for three weeks. Influenza-associated Pediatric Deaths: Influenza-Associated Pediatric Mortality: Eleven influenza-associated pediatric deaths were reported to CDC during week 41. Nine of these deaths were associated with 2009 influenza A (H1N1) virus infection and two were associated with an influenza A virus for which the subtype is undetermined. These deaths occurred between 14 June and 10 October 2009. One death reported during week 41 occurred during the 2008-09 season. Since 30 August 2009, CDC has received 53 reports of influenza-associated pediatric deaths that occurred during the current influenza season (47 due to 2009 influenza A(H1N1) and 6 due to undetermined subtype influenza A). Among the 53 deaths in children, 32 children had specimens collected for bacterial culture from normally sterile sites and seven (21.9%) of the 32 were positive; *Staphylococcus aureus* was identified in five (71.4%) of the seven children. A total of 95 deaths in children associated with 2009 H1N1 virus have been reported to CDC.

Influenza-associated hospitalizations: Laboratory-confirmed influenza-associated hospitalizations are monitored in the U.S. using a population-based surveillance network comprising 10 Emerging Infections Program sites and 6 new sites. Laboratory-confirmed influenza-associated hospitalization rates were reported during 01 September – 17 October 2009 (rates include influenza A, influenza B, and 2009 influenza A (H1N1)). Rates [EIP (new sites)] for children aged 0-4 years and 5-17 years were 1.9 (3.0) and 0.9 (1.6) per 10,000, respectively. Rates [EIP (new sites)] for adults aged 18-49 years, 50-64 years, and ≥ 65 years were 0.6 (0.6), 0.6 (0.6) and 0.5 (0.4) per 10,000, respectively.

Influenza-like Illness (ILI): Nationwide during week 41, 7.1% of patient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) were due to influenza-like illness (ILI). This percentage is above the national baseline of 2.3%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.7% to 12.5% during week 41.

Geographic spread: Widespread influenza activity was reported by 46 states. Regional influenza activity was reported by Guam and three states. Local influenza activity was reported by the District of Columbia, Puerto Rico, and one state. The U.S. Virgin Islands did not report.

Other information:

- President Barack Obama declared the swine flu outbreak a national emergency on 23 October, giving the Secretary of the Department of Health and Human Services the power to let hospitals move emergency rooms offsite to speed treatment and protect noninfected patients.
- The 2009-2010 U.S. Influenza Season (for purposes of surveillance and reporting) began 4 October 2009.

For more information:

U.S. Centers for Disease Control and Prevention "What's New on the H1N1 Flu Site"  
<http://www.cdc.gov/h1n1flu/whatsnew.htm>

U.S. Centers for Disease Control and Prevention Weekly Influenza Surveillance Report  
<http://www.cdc.gov/flu/weekly/>

Overview of Influenza Surveillance in the United States  
<http://www.cdc.gov/flu/weekly/pdf/overview.pdf>

## Canada Update

Data as of 23 October 2009, for week ending 17 October, 2009 (Week 41)

Virology: 99.9% of all subtyped influenza A viruses being reported to Public Health Agency of Canada (PHAC) were 2009 influenza A (H1N1) viruses. One type B was reported. The proportion of tests that were positive for influenza was 16.9% which was a significant increase to the previous week. 2009 influenza A (H1N1) viruses continue to be similar to the strain chosen for the vaccine. Of 2009 influenza A (H1N1) viruses tested by PHAC for resistance to neuraminidase inhibitors (oseltamivir and zanamivir) one was found resistant to oseltamivir. Hospitalizations and Deaths: 64 hospitalizations and 3 deaths were reported for week 41. Paediatric Influenza Hospitalizations and Deaths: No laboratory-confirmed influenza-associated paediatric hospitalizations or deaths were reported through the Immunization Monitoring Program Active (IMPACT) network. Influenza-like Illness (ILI): The national ILI consultation rate increased to 48 consultations per 1,000 patient visits this week which was an increase for a fifth consecutive week and was above the expected range for this time of the year.

Geographic spread: Four regions reported widespread activity and 14 regions reported localized activity, while 23 regions reported sporadic activity and 13 regions reported no activity. 57 influenza outbreaks in schools and one outbreak in a long-term care facility were reported.

Other information:

- The Minister of Health announced on October 21, 2009, that Health Canada has approved AREPANRIX, a vaccine against the Pandemic (H1N1) 2009 virus.

For more information: Public Health Agency of Canada

<http://www.phac-aspc.gc.ca/influenza/>

Public Health Agency of Canada FluWatch

[http://www.phac-aspc.gc.ca/fluwatch/09-10/w41\\_09/index-eng.php](http://www.phac-aspc.gc.ca/fluwatch/09-10/w41_09/index-eng.php)

## Epidemiologic update

All 27 EU and 4 EFTA countries are reporting cases of pandemic (H1N1) 2009 influenza. Since April 2009, a total 280 deaths have been reported; the information is available in Table 2.

The latest available updates as of October 26, 2009, at 16:00, on new and on confirmed fatal pandemic (H1N1) cases outside the EU/EFTA area by country, are also presented in Table 2.

The latest available updates on hospital admissions per Member State are presented in Table 1.

### Daily Update contents

ECDC has now stopped publishing numbers of confirmed cases reported from EU/EFTA member states – as well as from other countries around the world – in its Daily Update. This is due to the fact that most European countries are now recommending laboratory confirmation only in certain population groups, such as the risk groups. The World Health Organization has also recommended that countries verify only the first few hundred cases; after that exhaustive sampling is not recommended any more.

We will continue to monitor the evolution of the pandemic within Europe mirrored by the number of fatal cases by country and through the Weekly Influenza Surveillance Overview which is published on Fridays. For the countries outside of Europe, we will monitor the number of fatal cases by country and monitor the surveillance reports of selected non-European countries. It must be emphasized that the numbers of fatal cases per country associated with pandemic influenza are likely to be gross underestimates. Access to healthcare, the quality of the laboratory network in the country, the quality of the surveillance system and the case definition used for identifying fatal cases all affect these figures and will vary from country to country.

Daily Updates will be produced by 09:00hrs every morning Monday to Friday. No updates will be produced during weekends and the Daily Update published on Monday includes the weekend's information. The production cycle will be reviewed as needed.

**Table 1: Reported number of confirmed Pandemic (H1N1) 2009 influenza cases admitted to hospitals and intensive care by country as of 27 October 2009, 09:00 hours (CEST) in the 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 (16.10.)	-	-	-	-
Belgium (16.10.)	-	-	-	-
Bulgaria	-	-	-	-
Cyprus	-	-	-	-
Czech Republic (15.10.)	-	-	-	-
Denmark (21.10.)	-	-	-	-
Estonia (23.10.)	-	11	-	-
<b>Finland (26.10.)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
France (20.10.)	37	317	13	43
<b>Germany (21.10.)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Greece (21.10.)	-	-	-	-
Hungary (22.10.)	-	-	-	-
Iceland (21.10.)	31	80	6	-
Ireland (18.10.)	-	325	-	26
Italy (18.10)	-	1494	-	-
Latvia (13.08.)	-	1	-	-
Liechtenstein (21.10.)	-	-	-	-
Lithuania (13.08.)	-	-	-	-
Luxembourg (21.10.)	-	-	0	0
Malta (04.09.)	-	46	-	1
Netherlands (23.10.)	54	205	7	31
Norway (22.10.)	15	142	4	27
Poland (23.10.)	-	-	-	-
Portugal (21.10.)	15	-	2	-
<b>Romania (26.10)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Slovakia (12.08.)	2	33	0	0
Slovenia (10.08.)	-	-	-	-
Spain (22.10.)	-	303	-	137
Sweden (22.10.)	13	145	-	-
Switzerland (21.10.)	-	24	-	3
United Kingdom <sup>a</sup> (22.10.)	506	-	99	-

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>Data includes all probable cases for England only. Does not include Scotland (380 cumulative hospitalisations), Wales (126) and Northern Ireland (346).

**Table 2. Reported number of new and cumulative confirmed fatal Pandemic (H1N1) 2009 influenza cases in EU and EFTA countries, as 27 October 2009, 09:00 hours CEST, and in the rest of the world by country, as of 26 October 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>		
Belgium	-	5
Bulgaria	-	1
Czech Republic	1	1
Finland	1	1
France	-	36 <sup>a</sup>
Germany	-	3
Greece	-	3
Hungary	-	4
Iceland	-	1
Ireland	1	9
Italy	-	4
Luxembourg	-	1
Malta	-	5
Netherlands	-	6
Norway	1	11
Portugal	-	3
Spain	-	54
Sweden	-	2
United Kingdom	2	130
<b>Total</b>	6	280
<b>OTHER EUROPEAN COUNTRIES &amp; CENTRAL ASIA</b>		
Serbia	-	1
Moldova	-	1
<b>Total</b>	-	2
<b>MEDITERRANEAN AND MIDDLE-EAST</b>		
Bahrain	-	6
Egypt	-	3
Iran	-	16
Iraq	1	4
Israel	2	34
Jordan	-	3
Kuwait	2	12
Lebanon	1	3
Occupied Palestinian Territory	-	1

Oman	1	24
Qatar	-	3
Saudi Arabia	-	39
Syria	-	2
Turkey	-	1
United Arab Emirates	-	6
Yemen	-	13
<b>Total</b>	<b>7</b>	<b>170</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	-	86
Mexico	36	314
USA <sup>b</sup>	-	1004
<b>Total</b>	<b>36</b>	<b>1404</b>
<b>CENTRAL AMERICA &amp; CARIBBEAN</b>		
Bahamas	-	4
Barbados	-	3
Cayman Islands	-	1
Costa Rica	-	38
Cuba	-	7
Dominican Republic	-	22
El Salvador	-	22
Guatemala	-	13
Honduras	-	16
Jamaica	-	5
Nicaragua	-	11
Panama	-	11
Saint Kitts and Nevis	-	1
Suriname	-	2
Trinidad-Tobago	-	5

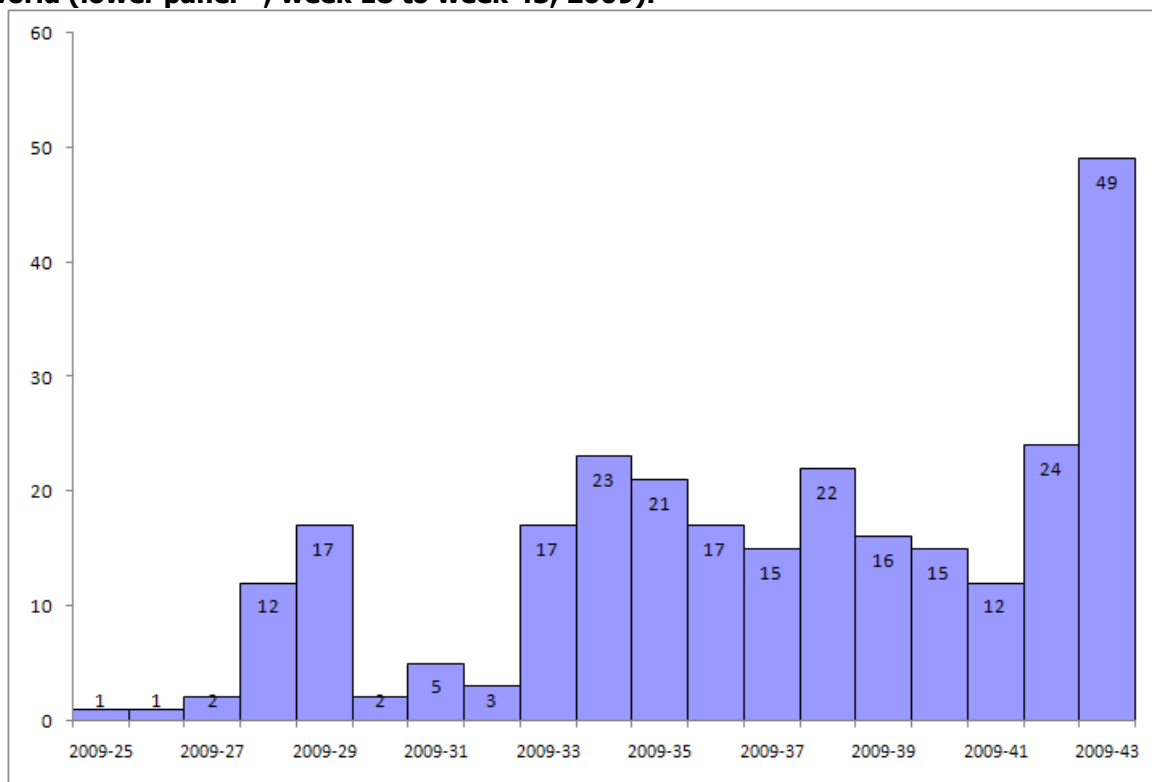
<b>Total</b>	-	161
<b>SOUTH AMERICA</b>		
Argentina	-	585
Bolivia	-	56
Brazil	-	1368
Chile	-	136
Colombia	-	118
Ecuador	-	70
Paraguay	-	52
Peru	-	162
Uruguay	-	33
Venezuela	-	93
<b>Total</b>	-	2673
<b>NORTH-EAST &amp; SOUTH ASIA</b>		
Bangladesh	-	6
China (Mainland)	1	3
Hong Kong SAR China	-	33
India	14	444
Japan	-	27
Macao SAR China	-	1
Mongolia	-	1
South Korea	5	25
Taiwan	-	25
<b>Total</b>	20	565
<b>SOUTH-EAST ASIA</b>		
Brunei Darussalam	-	1
Cambodia	-	3
Indonesia	-	10
Laos Peoples Democratic Republic	-	1
Malaysia	-	77
Philippines	2	30
Singapore	-	18
Thailand	-	176
Vietnam	1	32
<b>Total</b>	3	348
<b>AUSTRALIA &amp; PACIFIC</b>		
Australia	-	186
Cook Islands	-	1
Marshall Islands	-	1
New Zealand	-	19

Samoa	-	2
Solomon Islands	-	1
Tonga	-	1
<b>Total</b>	-	211
<b>TOTAL</b>	<b>72</b>	<b>5922</b>

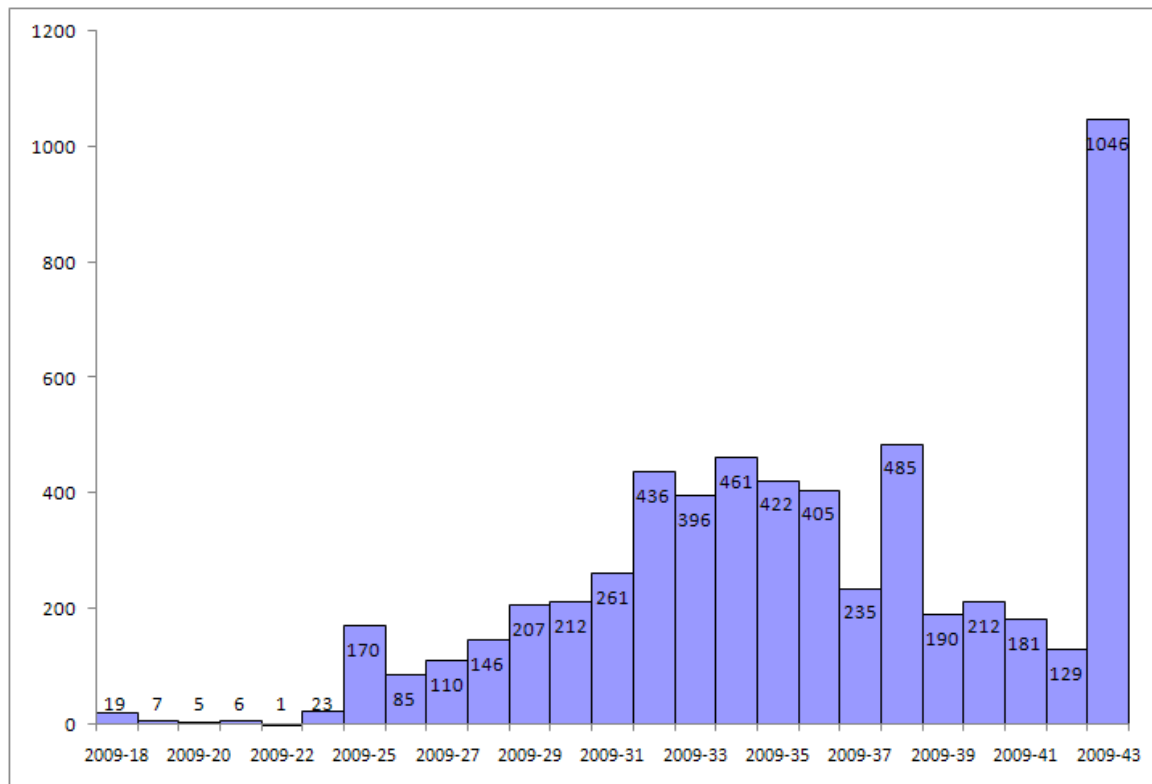
<sup>a</sup> Deaths reported from France include 1 in Guyana, 9 in New Caledonia, 7 in the French Polynesia, 6 in the Reunion, 1 in Martinique, 2 in Mayotte, 1 in Guadeloupe and 9 in mainland France.

<sup>b</sup> Update today includes reported laboratory-confirmed influenza-associated U.S. fatal cases since August 1.

**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 43, 2009) and world (lower panel<sup>a,b</sup>, week 18 to week 43, 2009).**



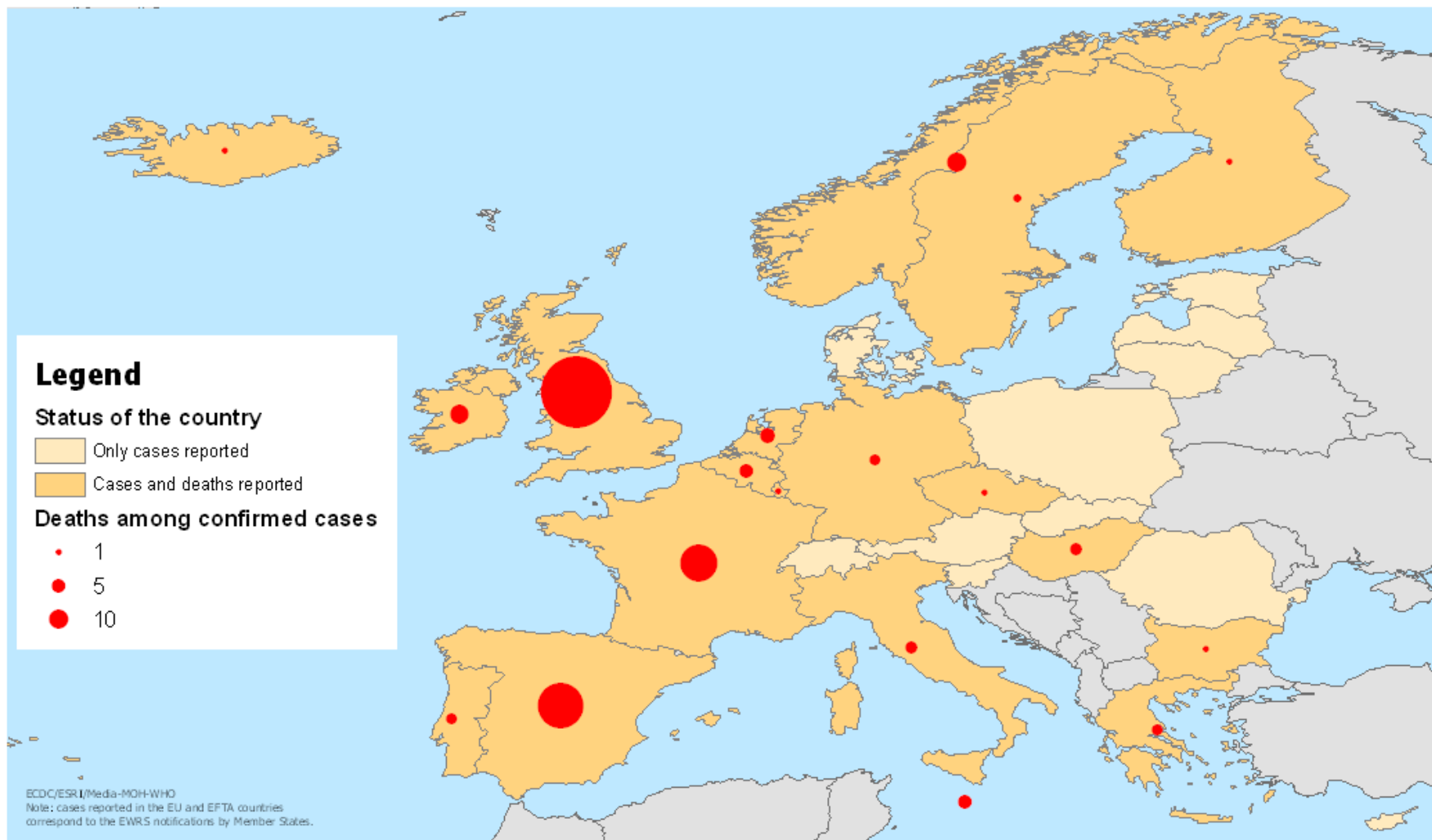
Notification week



Notification week

<sup>a</sup> The apparent increase in the number of deaths on 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 27 October 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 26 October 2009, 16:00 hours CEST

