

ECDC DAILY UPDATE

Pandemic (H1N1) 2009

Update 10 November 2009,
09:00 hours CEST

Main developments in past 24 hours

- Updates from U.S.A. and Canada included;
- Updates from EpiWatch included;
- Total of 414 fatal cases in Europe and EFTA countries and 6 094 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 is presented in Table 2 - as of 09 November 2009 -16:00 hours CEST, for the world, and 10 November 2009 - 09:00 hours CEST, for Europe.

Updates from U.S.A. and Canada

United States Update

Data as of 06 November 2009 17:00 CEST, for week ending 31 October, 2009 (Week 43)

Virology: >99% of all subtyped influenza A viruses reported to CDC were 2009 influenza A (H1N1) viruses. 99.7% of all specimens were type A. Two A(H3), 1 A(H1), and 14 type B were reported. One seasonal influenza A (H1N1) virus was tested and is related to the influenza A (H1N1) component of the 2009-10 Northern Hemisphere influenza vaccine (A/Brisbane/59/2007). Both influenza A (H3N2) viruses tested showed reduced titers with antisera produced against A/Brisbane/10/2007, the 2009-2010 Northern Hemisphere influenza A (H3N2) vaccine component, and were antigenically related to A/Perth/16/2009, the WHO recommended influenza A (H3N2) component of the 2010 Southern Hemisphere vaccine formulation. Since September 1, 2009, four infections with Oseltamivir resistant 2009 influenza A (H1N1) viruses have been identified in the United States (N.B. A previously reported case has been reclassified as susceptible).

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

From August 30 – October 24, 2009, 17,838 laboratory-confirmed influenza associated hospitalizations, 672 laboratory-confirmed influenza associated deaths were reported to CDC.

Pneumonia and Influenza (P&I) Mortality Surveillance: During week 43, 7.4% of all deaths reported through the 122-Cities Mortality Reporting System were due to P&I. This percentage was above the epidemic threshold of 6.7% for week 43 and the percentage has been above the threshold for 5 weeks.

Influenza-associated Pediatric Mortality: Eighteen influenza-associated pediatric deaths were reported to CDC during week 43. Fifteen of these deaths were associated with 2009 influenza A (H1N1) virus infection and three were associated with an influenza A virus for which the subtype is undetermined. These deaths occurred between 12 July and 31 October 2009. Since 30 August 2009, CDC has received 85 reports of influenza-associated pediatric deaths that occurred during the current influenza season (73 due to 2009 influenza A(H1N1) and 12 due to undetermined subtype influenza A). Among the 85 deaths in children, 53 children had specimens collected for bacterial culture from normally sterile sites and 17 (32.1%) of the 53 were positive; *Staphylococcus aureus* was identified in 8 (47.1%) of the 17 children. A total of 129 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 – 31 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 3.1 (7.3) and 1.5 (2.9) per 10,000, respectively. Rates [EIP (new sites)] for adults aged 18-49 years, 50-64 years, and ≥ 65 years were 1.2 (1.2), 1.3 (1.2) and 1.0 (1.1) per 10,000, respectively. **Influenza-like Illness (ILI):** Nationwide during week 43, 7.7% 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 5.0% to 10.7% during week 43.

Geographic spread: Widespread influenza activity was reported by 48 states. Regional influenza activity was reported by 2 states. Local influenza activity was reported by the District of Columbia. Sporadic influenza activity was reported by Puerto Rico and Guam. The U.S. Virgin Islands did not report.

Other information:

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 November 2009 19:00 CEST, for week ending 31 October, 2009 (Week 43)

There was an increase in the influenza activity level reported this week with the proportion of positive influenza tests of more than 35%, the national ILI consultation rate higher than 100 per 1,000 visits and over 700 influenza outbreaks reported. This increased activity occurred in almost all provinces and territories.

Virology: 99.7% of all subtyped influenza A viruses being reported to Public Health Agency of Canada (PHAC) were 2009 influenza A (H1N1) viruses; the remainder were A(H1), A(H3) and B. The proportion of tests that were positive for influenza was 36.3% which was a significant increase to the previous weeks. 2009 influenza A (H1N1) viruses continue to be similar to the strain chosen for the vaccine. No viruses resistant to Oseltamivir were detected in week 43.

Hospitalizations and Deaths: 661 hospitalizations (a large increase over the previous week) and 8 deaths were reported for week 43.

Pediatric Influenza Hospitalizations and Deaths: In week 43, 120 laboratory-confirmed influenza-associated pediatric hospitalizations were reported through the Immunization Monitoring Program Active (IMPACT) network. Since the beginning of the pandemic, four deaths due to Pandemic (H1N1) 2009 had been reported through the IMPACT network among children under 16 years of age.

Influenza-like Illness (ILI): The national ILI consultation rate increased to 111 consultations per 1,000 patient visits this week which was a large increase over the previous week and an increase for a seventh consecutive week and was above the expected range for this time of the year.

Geographic spread: Nineteen regions reported widespread activity and 16 regions reported localized activity, while 18 regions reported sporadic activity and 7 regions reported no activity. 737 influenza outbreaks were reported; all were in schools except for 11 in hospitals, 9 in an unspecified location and 7 in long-term care facilities.

Other information:

All the provinces and territories have started their vaccination campaigns..

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/w43_09/index-eng.php

Updates from EpiNorth

Update on situation in Moldova

As of November 9 at 7:30 am, 615 suspected cases of A(H1N1) were reported in the Republic of Moldova, according to [the National Scientific-Practical Centre for Preventive Medicine of the Republic of Moldova](#). Among them 316 cases of influenza A(H1N1) were laboratory confirmed. Also, there were reported 3 deaths caused by influenza A(H1N1) in the Republic of Moldova. [Read more from EpiWatch..](#)

Update on epidemics in Ukraine

As of November 8, a total of 969, 247 cases of SARI/ILI were reported by [the Ministry of Health of Ukraine](#) on its website. The worst situation is reported from Lviv Oblast – 155,895 cases, Ivano-Frankivsk Oblast – 88,703 cases, Kiev-city – 60,366 cases, Chernivtsi Oblast – 47,167 cases, Donetsk Oblast – 48,263, and Ternopil Oblast – 30,510 cases. Furthermore, a total of 48,972 persons were hospitalised in the whole country, of them 155 people died as of 8 November 2009. [Read more from EpiWatch..](#)

Outbreak of influenza A(H1N1) at the chess tournament in Vologda oblast, Russia

As of 9 November, 75 cases of influenza A(H1N1), among them 59 children, were reported at the Northwestern Russia chess tournament held in [Vologda oblast](#), according to [the Directorate of Rospotrebnadzor in Vologda oblast](#). [Read more from EpiWatch..](#)

Epidemiologic update

All 27 EU and 4 EFTA countries are reporting cases of pandemic (H1N1) 2009 influenza. Since April 2009, a total 414 deaths have been reported; the information is available in Table 2.

The latest available updates as of November 09, 2009, at 16:00, on new and on confirmed fatal pandemic A(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.

Table 1: Reported number of confirmed Pandemic (H1N1) 2009 influenza cases admitted to hospitals and intensive care by country as of 10 November 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 (02.11.)	-	-	-	-
Belgium (05.11.)	-	-	-	-
Bulgaria (04.11)	-	-	-	-
Cyprus(01.11)	-	-	-	4
Czech Republic (05.11.)	-	-	-	-
Denmark (04.11.)	-	-	-	-
Estonia (23.10.)	-	11	-	-
Finland (04.11.)	-	-	-	-
France (04.11.)	203	625	36	131
Germany (05.11.)	-	-	-	-
Greece (04.11.)	-	-	-	-
Hungary (01.11.)	-	68	-	-
Iceland (30.10.)	43	-	11	-
Ireland (05.11.)	165	665	19	54
Italy (09.11)	-	184	-	82
Latvia (13.08.)	-	1	-	-
Liechtenstein (05.11.)	-	-	-	-
Lithuania (13.08.)	-	-	-	-
Luxembourg (21.10.)	-	-	0	0
Malta (04.09.)	-	46	-	1
Netherlands (06.11.)	273	611	28	69
Norway (04.11.)	69	497	4	69
Poland (09.11.)	-	-	-	-
Portugal (04.11.)	63	-	9	-
Romania (08.11)	-	-	-	-
Slovakia (12.08.)	2	33	0	0
Slovenia (10.08.)	-	-	-	-
Spain (05.11.)	-	-	-	-
Sweden (01.11.)	51	241	-	-
Switzerland (01.11.)	6	33	-	-
United Kingdom ^a (05.11.)	848	-	172	-

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.

^aData includes all probable cases for England only. Does not include Scotland (691 cumulative hospitalisations), Wales (251) and Northern Ireland (495).

Table 2. Reported number of new and cumulative confirmed fatal Pandemic (H1N1) 2009 influenza cases in EU and EFTA countries, as 10 November 2009, 09:00 hours CEST, and in the rest of the world by country, as of 09 November 2009, 16:00 hours CEST.

Country	Number of new fatal cases since previous national update	Cumulative number of fatal cases
EU AND EFTA COUNTRIES		
Austria	-	1
Belgium	-	8
Bulgaria	-	5
Czech Republic	-	1
Finland	-	2
France	8	57 ^a
Germany	-	9
Greece	-	5
Hungary	-	5
Iceland	-	1
Ireland	-	14
Italy	2	31
Latvia	1	1
Luxembourg	-	1
Malta	-	3
Netherlands	-	17
Norway	1	16
Portugal	-	5
Slovakia	1	1
Spain	-	73
Sweden	-	3
United Kingdom	-	155
Total	13	414
OTHER EUROPEAN COUNTRIES & CENTRAL ASIA		
Belarus	-	7
Croatia	-	1
Moldova	-	3
Russia	-	15
Serbia	3	7
Ukraine	-	1
Total	3	34
MEDITERRANEAN AND MIDDLE-EAST		
Bahrain	-	6

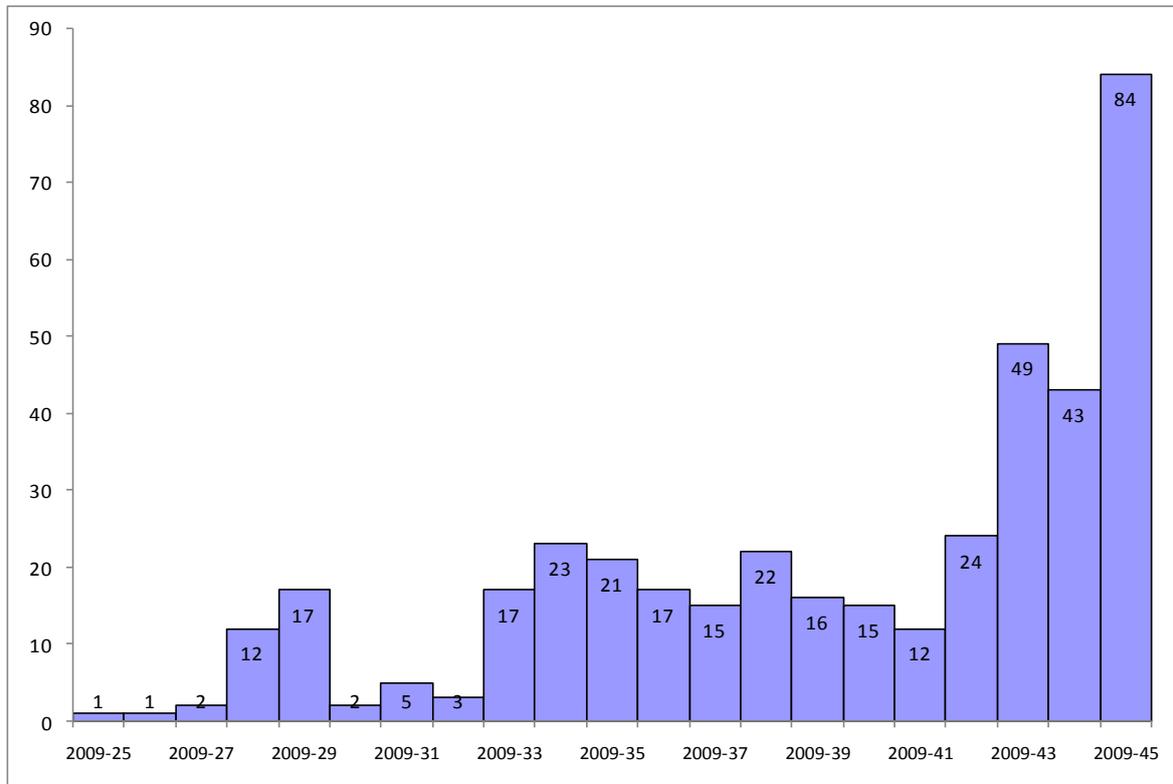
Egypt	-	6
Iran	-	33
Iraq	-	7
Israel	-	39
Jordan	-	7
Kuwait	-	22
Lebanon	-	3
Occupied Palestinian Territory	-	2
Oman	-	25
Qatar	-	5
Saudi Arabia	-	66
Syria	-	7
Turkey	4	27
United Arab Emirates	-	6
Yemen	-	17
Total	4	278
AFRICA		
Ghana	-	1
Madagascar	-	1
Mauritius	-	8
Mozambique	-	2
Namibia	-	1
Sao Tome & Principe	-	2
South Africa	-	91
Sudan	-	1
Tanzania	-	1
Total	-	108
NORTH AMERICA		
Canada	-	115
Mexico	-	398
USA	-	1004
Total	-	1517
CENTRAL AMERICA & CARIBBEAN		
Bahamas	-	4
Barbados	-	3
Cayman Islands	-	1
Costa Rica	-	38
Cuba	-	7
Dominican Republic	-	22
El Salvador	-	23

Guatemala	-	18
Honduras	-	16
Jamaica	-	5
Nicaragua	-	11
Panama	-	11
Saint Kitts and Nevis	-	1
Saint Lucia	1	1
Suriname	-	2
Trinidad-Tobago	-	5
Total	1	168
SOUTH AMERICA		
Argentina	-	600
Bolivia	-	56
Brazil	-	1368
Chile	-	140
Colombia	-	136
Ecuador	-	80
Paraguay	-	52
Peru	-	180
Uruguay	-	33
Venezuela	-	97
Total	-	2742
NORTH-EAST & SOUTH ASIA		
Afghanistan	2	11
Bangladesh	-	6
China (Mainland)	-	16
Hong Kong SAR China	-	39
India	1	485
Japan	-	28
Macao SAR China	-	2
Mongolia	-	8
South Korea	-	48
Sri Lanka	1	1
Taiwan	-	27
Total	4	671
SOUTH-EAST ASIA		
Brunei Darussalam	-	1
Cambodia	-	4
Indonesia	-	10
Laos Peoples Democratic Republic	-	1

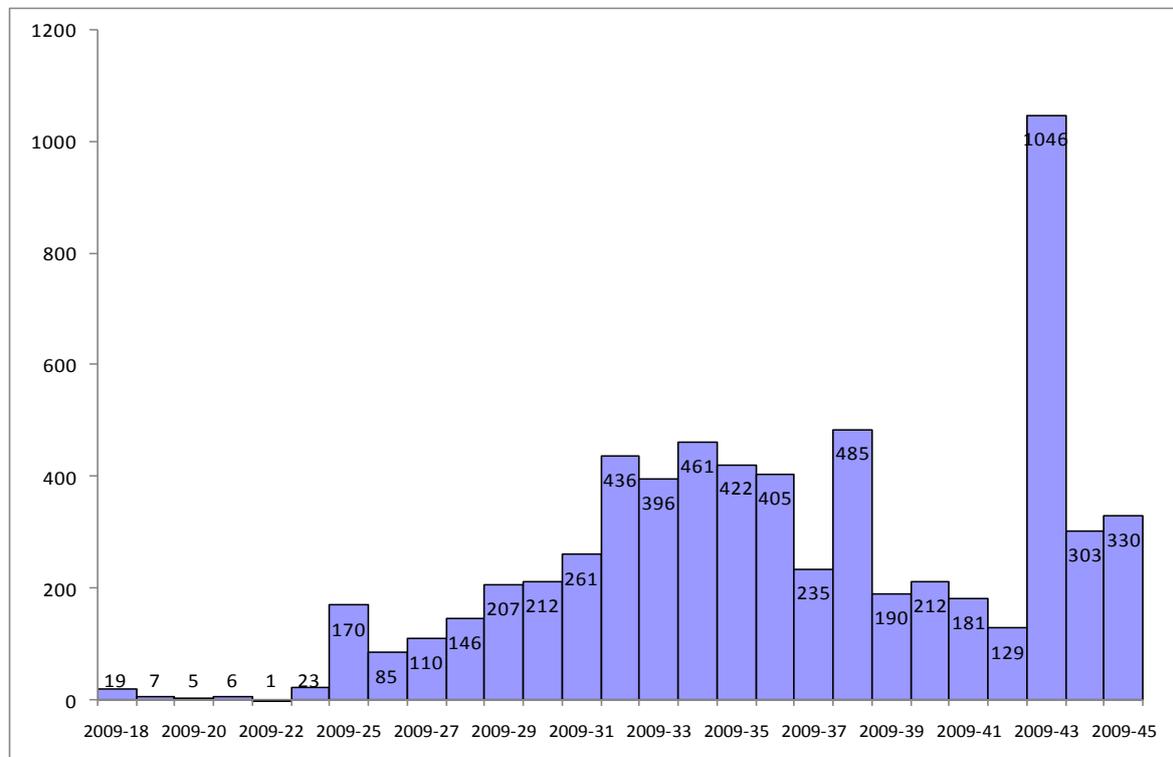
Malaysia	-	77
Philippines	-	30
Singapore	-	18
Thailand	-	184
Vietnam	-	39
Total	-	364
AUSTRALIA & PACIFIC		
Australia	-	187
Cook Islands	-	1
Marshall Islands	-	1
New Zealand	-	19
Samoa	-	2
Solomon Islands	-	1
Tonga	-	1
Total	-	212
TOTAL	25	6508

^a 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 30 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 45, 2009) and world (lower panel^a, week 18 to week 45, 2009).



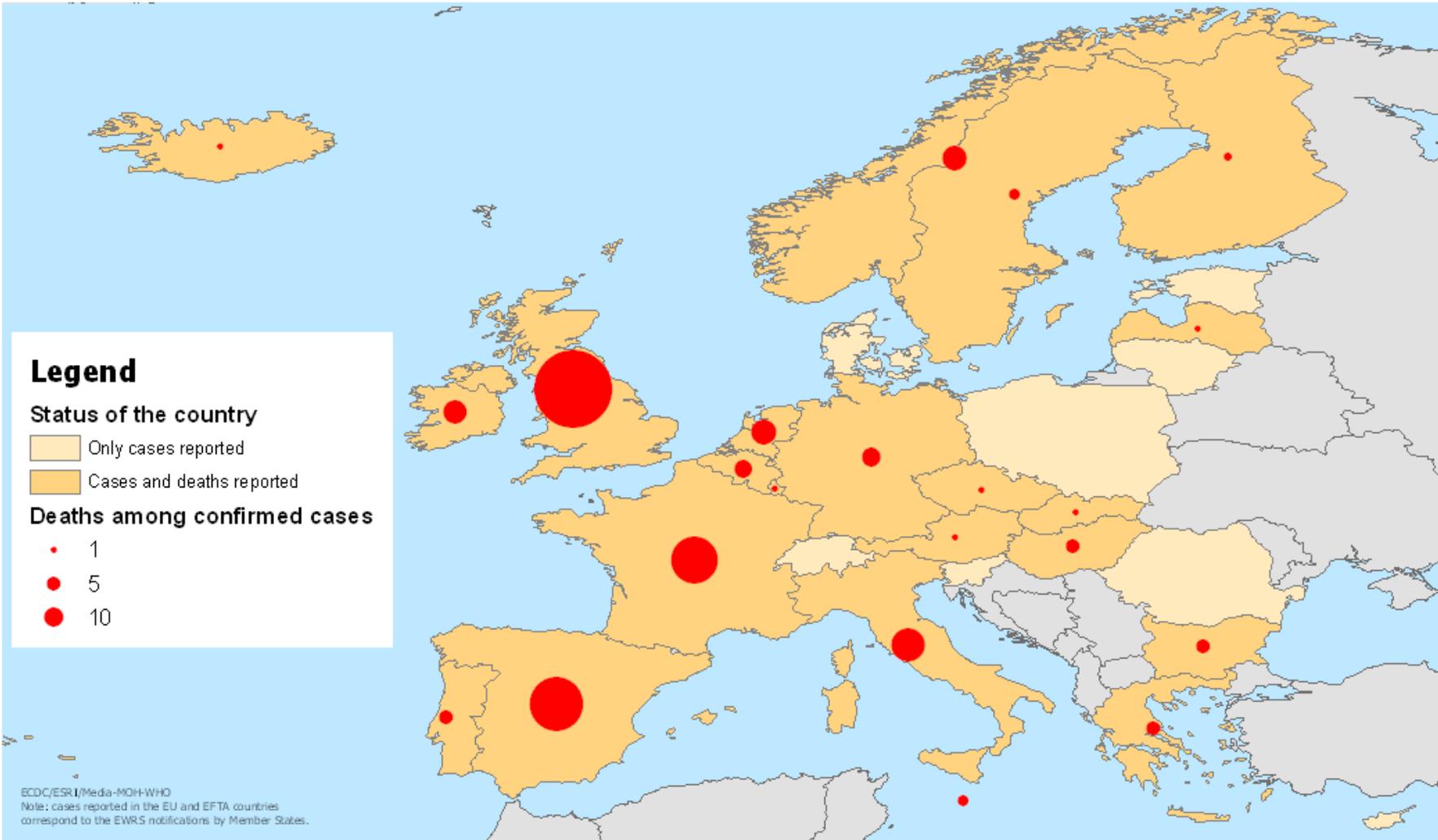
Notification week



Notification week

^a 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 1st.

Reported cumulative number of confirmed fatal cases of influenza A(H1N1)v in EU and EFTA countries, as of 10 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 09 November 2009, 16:00 hours CEST

