

ECDC DAILY UPDATE

Pandemic (H1N1) 2009

Update 02 December 2009,
09:00 hours CEST

Main developments in past 24 hours

- A total of 898 fatal cases in Europe and EFTA countries and 7 851 in the rest of the world have been reported up to date.
- Scientific Advance: studies suggest that seasonal influenza vaccination unlikely to protect from pandemic influenza A(H1N1)v infection

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 02 December 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 01 December 2009 - 16:00 hours CEST, for the world, and 01 December 2009 - 09:00 hours CEST, for Europe.

Scientific Advance

A number of epidemiological and serological studies indicate that trivalent influenza seasonal vaccination is unlikely to confer any protection against pandemic influenza A(H1N1)v 2009 infection

Hancock K, Veguilla V, Lu X, et al. [Cross-reactive antibody responses to the 2009 pandemic H1N1 influenza virus](#). N Engl J Med 2009 Nov 12;361(20):1945-52.

The above study is reviewed in today's Scientific Advance together with evidence from four observational studies investigating the effects of seasonal influenza vaccination on the risk of infection with 2009 pandemic influenza.

This study shows that vaccination with recent seasonal influenza vaccines, even when formulated with adjuvants, provides hardly any protection against pandemic influenza (H1N1) 2009. Together, the information available from the four published epidemiological studies plus the serological study results do not support any change in the seasonal or pandemic influenza vaccination policies by EU Member States.

The full ECDC review is available at:

http://ecdc.europa.eu/en/activities/sciadvicelists/ECDC%20Reviews/ECDC_DispForm.aspx?List=512ff74f%2D77d4%2D4ad8%2Db6d6%2Dbf0f23083f30&ID=687

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 898 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.

Table 1: Reported number of confirmed Pandemic (H1N1) 2009 influenza cases admitted to hospitals and intensive care, by country, as of 02 December 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 (01.12.)	5	-	12	-
France (30.11.)	-	461	137	-
Germany (26.11.)	-	-	-	-
Greece (15.11.)	-	-	-	-
Hungary (22.11.)	-	-	-	-
Iceland (26.11.)	5	180	1	20
Ireland (25.11.)	211	941	18	77
Italy (28.11)	-	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 (30.11.)	-	-	-	-
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 ^a (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.

^aData 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 02 December 2009, 09:00 hours CEST, and in the rest of the world by country, as of 01 December 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	-	3
Belgium	-	13
Bulgaria	-	5
Czech Republic	-	8
Denmark	-	6
Estonia	-	1
Finland	-	16
France	-	114 ^a
Germany	2	60
Greece	-	12
Hungary	-	8
Iceland	-	2
Ireland	-	17
Italy	2	95
Latvia	3	8
Lithuania	1	5
Luxembourg	-	2
Malta	-	3
Netherlands	-	36
Norway	-	25
Poland	2	24
Portugal	-	21
Romania	-	3
Slovakia	-	1
Slovenia	5	7
Spain	-	135
Sweden	-	15
Switzerland	-	3
United Kingdom	3	250
Total	18	898
OTHER EUROPEAN COUNTRIES & CENTRAL ASIA		
Azerbaijan	-	2
Belarus	-	20
Bosnia and Herzegovina	-	1
Croatia	-	11

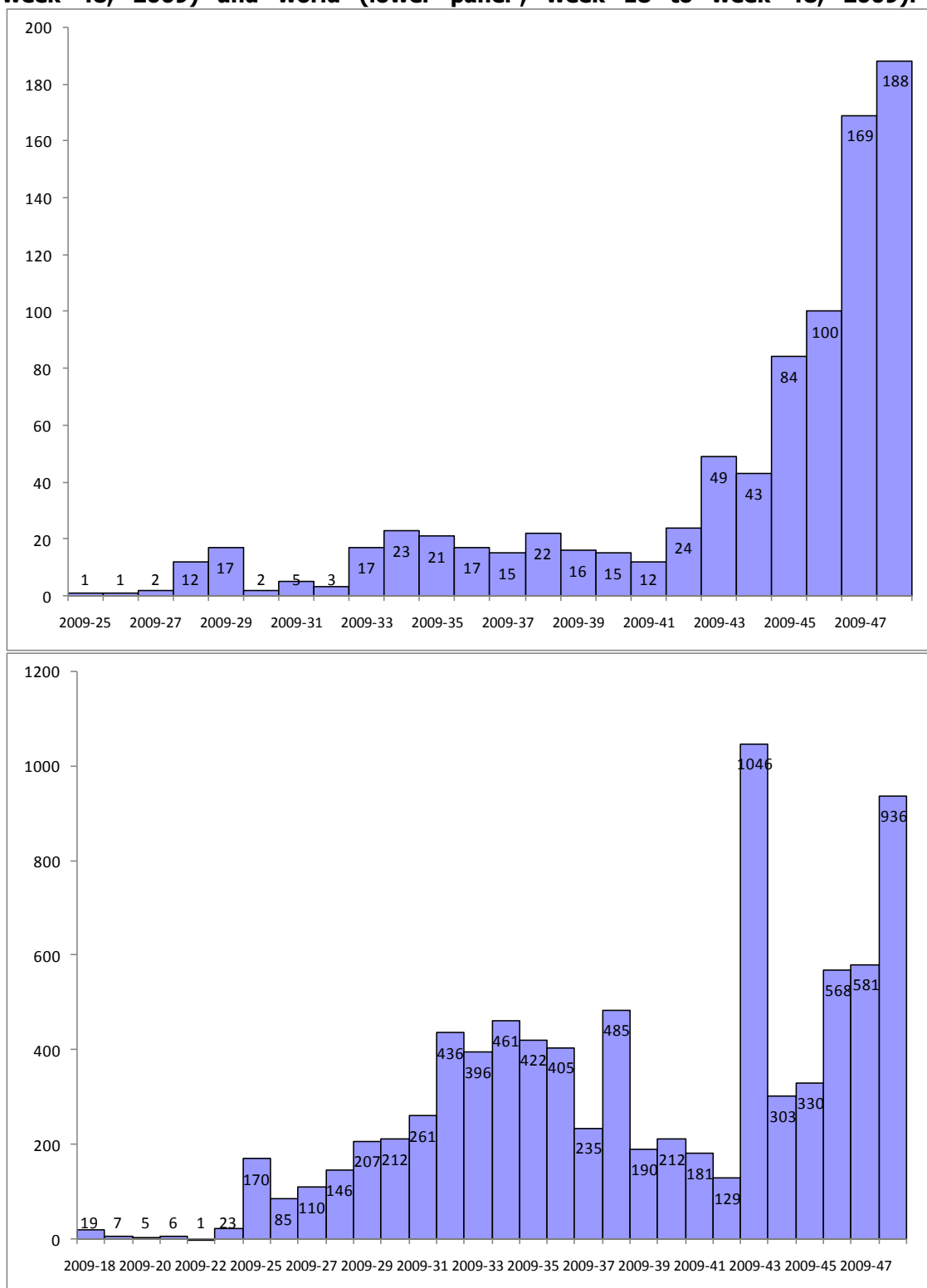
Former Yugoslav Republic of Macedonia	1	4
Kosovo	-	7
Moldova	-	12
Russia	-	19
Serbia	-	22
Ukraine	23	41
Total	24	139
MEDITERRANEAN AND MIDDLE-EAST		
Algeria	-	3
Bahrain	-	7
Egypt	-	21
Iran	-	140
Iraq	-	15
Israel	3	63
Jordan	-	14
Kuwait	-	27
Lebanon	-	3
Libya	1	1
Morocco	1	4
Occupied Palestinian Territory	-	9
Oman	-	27
Qatar	-	8
Saudi Arabia	-	81
Syria	-	50
Tunisia	-	2
Turkey	-	195
United Arab Emirates	-	6
Yemen	-	22
Total	5	698
AFRICA		
Ghana	-	1
Madagascar	-	1
Mauritius	-	8
Mozambique	-	2
Namibia	-	1
Sao Tome & Principe	-	2
South Africa	1	92
Sudan	-	1
Tanzania	-	1
Total	1	109

NORTH AMERICA		
Canada	-	309
Mexico	46	656
USA	-	1265
Total	46	2230
CENTRAL AMERICA & CARIBBEAN		
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
Total	-	175
SOUTH AMERICA		
Argentina	-	613
Bolivia	-	58
Brazil	-	1528
Chile	-	148
Colombia	-	160
Ecuador	-	82
Paraguay	-	52
Peru	-	190
Uruguay	-	33
Venezuela	-	114
Total	-	2978
NORTH-EAST & SOUTH ASIA		
Afghanistan	2	16
Bangladesh	-	6
China (Mainland)	-	104
Hong Kong SAR China	-	41

India	2	575
Japan	-	28
Macao SAR China	-	2
Maldives	-	1
Mongolia	-	18
Pakistan	-	1
South Korea	-	104
Sri Lanka	-	5
Taiwan	-	30
Total	4	931
SOUTH-EAST ASIA		
Brunei Darussalam	-	1
Cambodia	-	5
Indonesia	-	10
Laos Peoples Democratic Republic	-	1
Malaysia	-	77
Philippines	-	30
Singapore	-	19
Thailand	-	187
Vietnam	-	44
Total	-	374
AUSTRALIA & PACIFIC		
Australia	-	190
Cook Islands	-	1
Marshall Islands	-	1
New Zealand	-	20
Samoa	-	2
Solomon Islands	-	1
Tonga	-	1
Total	-	216
TOTAL	98	8749

^a 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 86 in mainland France.

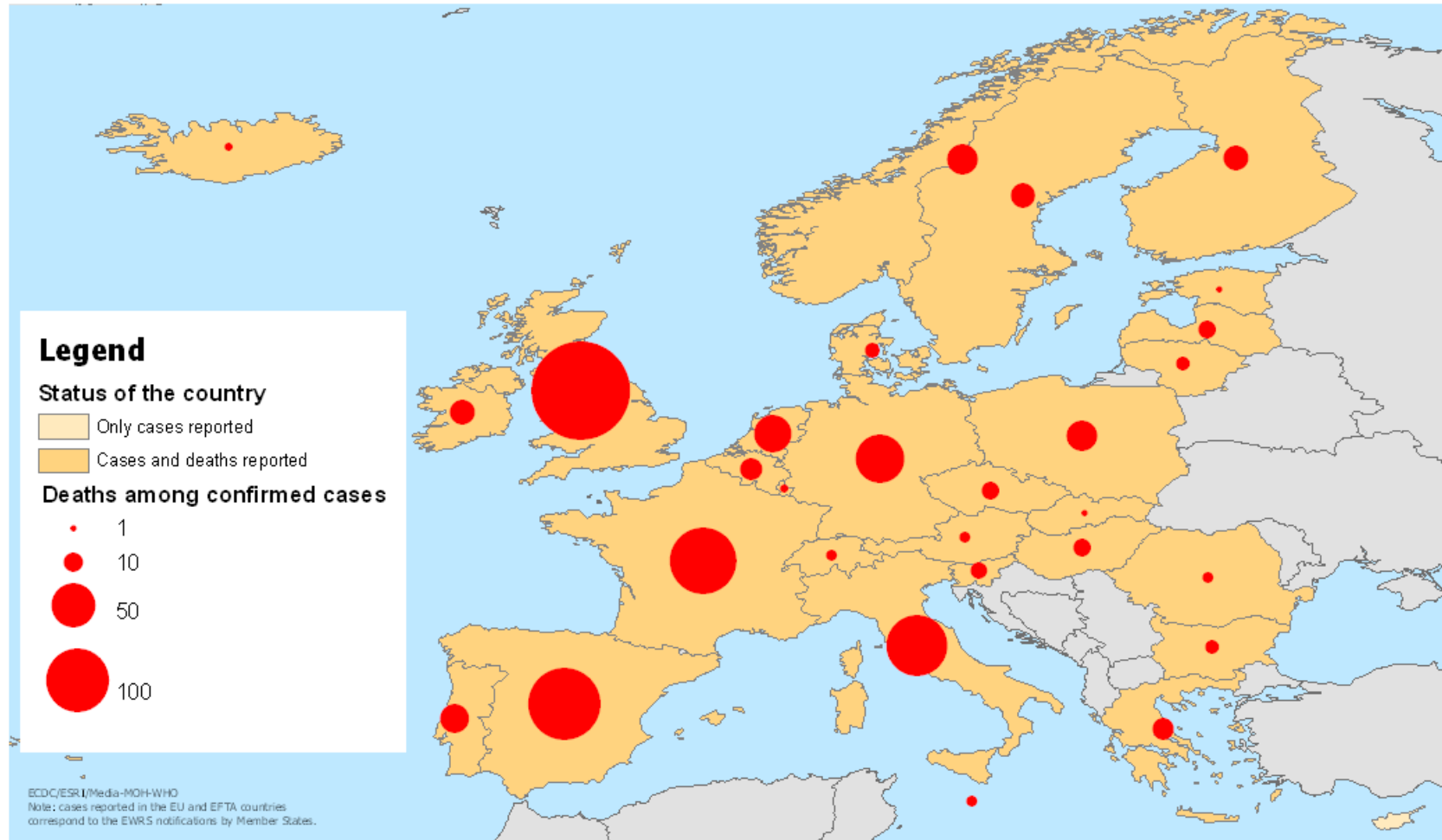
Figure 1: Number of confirmed deaths among pandemic (H1N1) 2009 influenza cases by week of notification. EU and EFTA countries (upper panel, week 25 to week 48, 2009) and world (lower panel^a, week 18 to week 48, 2009).



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 02 December 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 01 December 2009, 16:00 hours CEST

