

ECDC DAILY UPDATE

Pandemic (H1N1) 2009

Update 20 November 2009,
09:00 hours CEST

Main developments in past 24 hours

- Weekly Influenza Surveillance Overview to be published today;
- Eurosurveillance updates published;
- Total of 636 fatal cases in Europe and EFTA countries and 6 795 in the rest of the world have been reported up to date;
- Other updates: Safety of pandemic vaccines - WHO says results to date are encouraging

This report is based on official information provided by 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 19 November 2009 - 16:00 hours CEST, for the world, and 20 November 2009 - 09:00 hours CEST, for Europe.

Weekly Influenza Surveillance Overview

The ECDC Weekly Influenza Surveillance Overview will be published this afternoon and will be available at:

http://www.ecdc.europa.eu/en/activities/surveillance/EISN/Pages/EISN_Bulletin.aspx

Eurosurveillance update

Differentiation of two distinct clusters among currently circulating Influenza A(H1N1)v viruses, march-september 2009

Analysis of all complete genome sequences of the pandemic influenza A(H1N1)v virus available as of 10 September 2009 revealed that two closely related but distinct clusters were circulating in most of the affected countries at the same time. The characteristic differences are located in genes encoding the two surface proteins - haemagglutinin and neuraminidase - and four internal proteins – the polymerase PB2 subunit, nucleoprotein,

matrix protein M1 and the non-structural protein NS1. Phylogenetic inference was demonstrated by neighbour joining, maximum likelihood and Bayesian trees analyses of the involved genes and by tree construction of concatenated sequences

Fereidouni SR, Beer M, Vahlenkamp T, Starick E. Differentiation of two distinct clusters among currently circulating influenza A(H1N1)v viruses, March-September 2009. Euro Surveill. 2009;14(46):pii=19409. Available online: <http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=19409>

Epidemiologic update

All 27 EU and 4 EFTA countries are reporting cases of pandemic (H1N1) 2009 influenza. A total of 636 deaths have been reported since April 2009 (Table 2). The number of weekly deaths has shown an increase over the last 4 weeks.

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.

Other updates

Safety of pandemic vaccines - WHO says results to date are encouraging

The World Health Organisation yesterday released their "Pandemic (H1N1) 2009 briefing note 16" discussing the safety of pandemic vaccines. The briefing discusses common side effects, GBS and deaths. To date, WHO has received vaccination information from 16 of around 40 countries conducting national H1N1 pandemic vaccine campaigns.

Detailed information can be found at:

http://www.who.int/csr/disease/swineflu/notes/briefing_20091119/en/index.html

Table 1: Reported number of confirmed Pandemic (H1N1) 2009 influenza cases admitted to hospitals and intensive care, by country, as of 20 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 (19.11.)	-	-	-	-
Bulgaria (08.11)	-	-	-	-
Cyprus(01.11)	-	-	-	4
Czech Republic (19.11.)	-	-	-	-
Denmark (18.11.)	-	-	-	-
Estonia (23.10.)	-	11	-	-
Finland (18.11.)	-	-	-	-
France (19.11.)	-	-	81	245
Germany (18.11.)	-	-	-	-
Greece (18.11.)	-	-	-	-
Hungary (18.11.)	2	-	-	-
Iceland (11.11.)	31	170	7	19
Ireland (18.11.)	182	857	20	72
Italy (18.11)	-	432	-	216
Latvia (18.11.)	-	-	-	-
Liechtenstein (18.11.)	-	-	-	-
Lithuania (04.11.)	-	-	-	-
Luxembourg (16.11.)	-	-	0	0
Malta (04.09.)	-	46	-	1
Netherlands (13.11.)	291	909	19	91
Norway (18.11.)	89	916	24	108
Poland (17.11.)	-	-	-	-
Portugal (18.11.)	164	-	18	-
Romania (19.11)	-	-	-	-
Slovakia (19.11.)	6	39	0	0
Slovenia (10.08.)	-	-	-	-
Spain (19.11.)	-	-	-	-
Sweden (19.11.)	167	570	-	-
Switzerland (18.11.)	13	84	-	16
United Kingdom ^a (19.11.)	783	-	180	-

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 (969 cumulative hospitalisations), Wales (377) and Northern Ireland (545).

Table 2. Reported number of new and cumulative confirmed fatal Pandemic (H1N1) 2009 influenza cases in EU and EFTA countries, as 20 November 2009, 09:00 hours CEST, and in the rest of the world by country, as of 19 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	2	3
Belgium	1	12
Bulgaria	-	5
Czech Republic	1	2
Finland	-	9
France	6	76 ^a
Germany	5	27
Greece	-	8
Hungary	2	7
Iceland	-	1
Ireland	1	16
Italy	4	62
Latvia	-	1
Lithuania	-	1
Luxembourg	-	2
Malta	-	3
Netherlands	-	22
Norway	1	23
Poland	1	5
Portugal	1	8
Slovakia	-	1
Spain	27	115
Sweden	6	11
Switzerland	1	1
United Kingdom	28	215
Total	87	636
OTHER EUROPEAN COUNTRIES & CENTRAL ASIA		
Azerbaijan	-	2
Belarus	-	7
Bosnia and Herzegovina	-	1
Croatia	-	5
Former Yugoslav Republic of Macedonia	1	1
Kosovo	-	1
Moldova	-	7
Russia	-	19

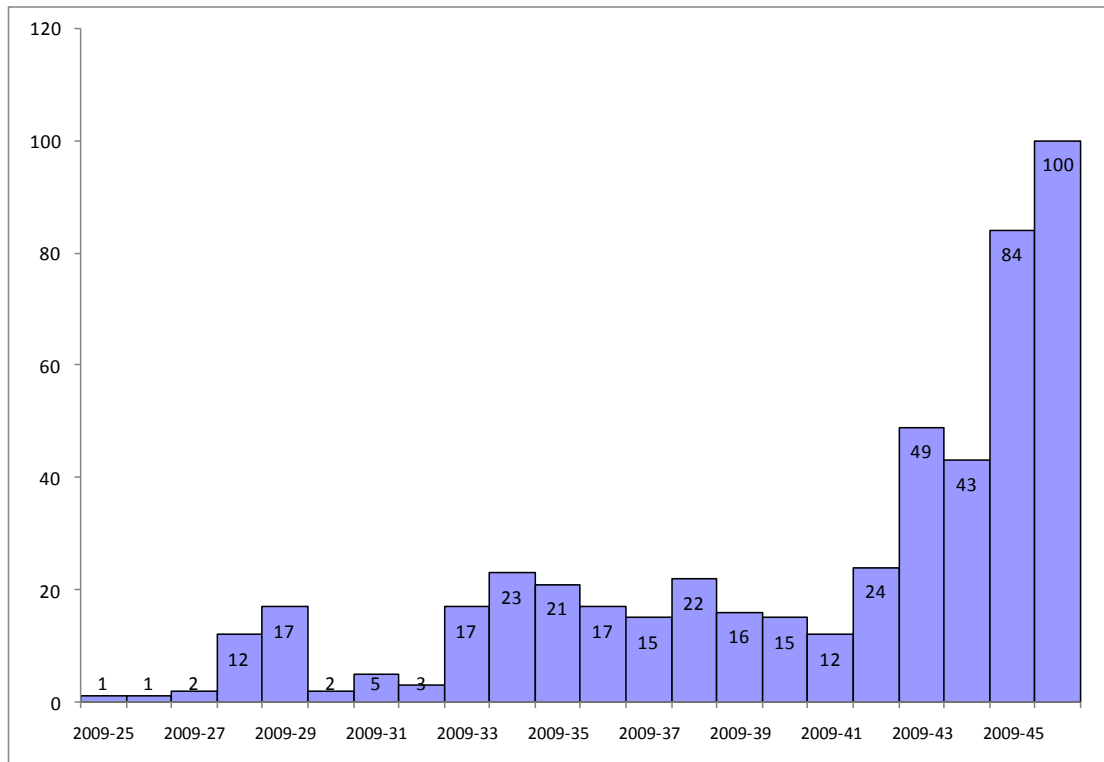
Serbia	3	16
Ukraine	-	15
Total	4	74
MEDITERRANEAN AND MIDDLE-EAST		
Bahrain	-	7
Egypt	-	7
Iran	-	100
Iraq	-	9
Israel	-	48
Jordan	-	11
Kuwait	-	26
Lebanon	-	3
Morocco	-	1
Occupied Palestinian Territory	-	5
Oman	-	27
Qatar	-	5
Saudi Arabia	-	66
Syria	-	22
Tunisia	-	2
Turkey	-	73
United Arab Emirates	-	6
Yemen	-	18
Total	-	436
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		198
Mexico	38	520
USA	-	1123
Total	38	1841
CENTRAL AMERICA & CARIBBEAN		

Bahamas	-	4
Barbados	-	3
Cayman Islands	-	1
Costa Rica	-	38
Cuba	-	7
Dominican Republic	-	22
El Salvador	-	26
Guatemala	-	18
Honduras	-	16
Jamaica	1	6
Nicaragua	-	11
Panama	-	11
Saint Kitts and Nevis	-	1
Saint Lucia	-	1
Suriname	-	2
Trinidad-Tobago	-	5
Total	1	172
SOUTH AMERICA		
Argentina	-	600
Bolivia	-	57
Brazil	-	1368
Chile	-	140
Colombia	-	151
Ecuador	-	82
Paraguay	-	52
Peru	-	190
Uruguay	-	33
Venezuela	-	104
Total	-	2777
NORTH-EAST & SOUTH ASIA		
Afghanistan	-	14
Bangladesh	-	6
China (Mainland)	-	53
Hong Kong SAR China	-	40
India	4	534
Japan	-	28
Macao SAR China	-	2
Mongolia	-	15
Pakistan	-	1
South Korea	-	82

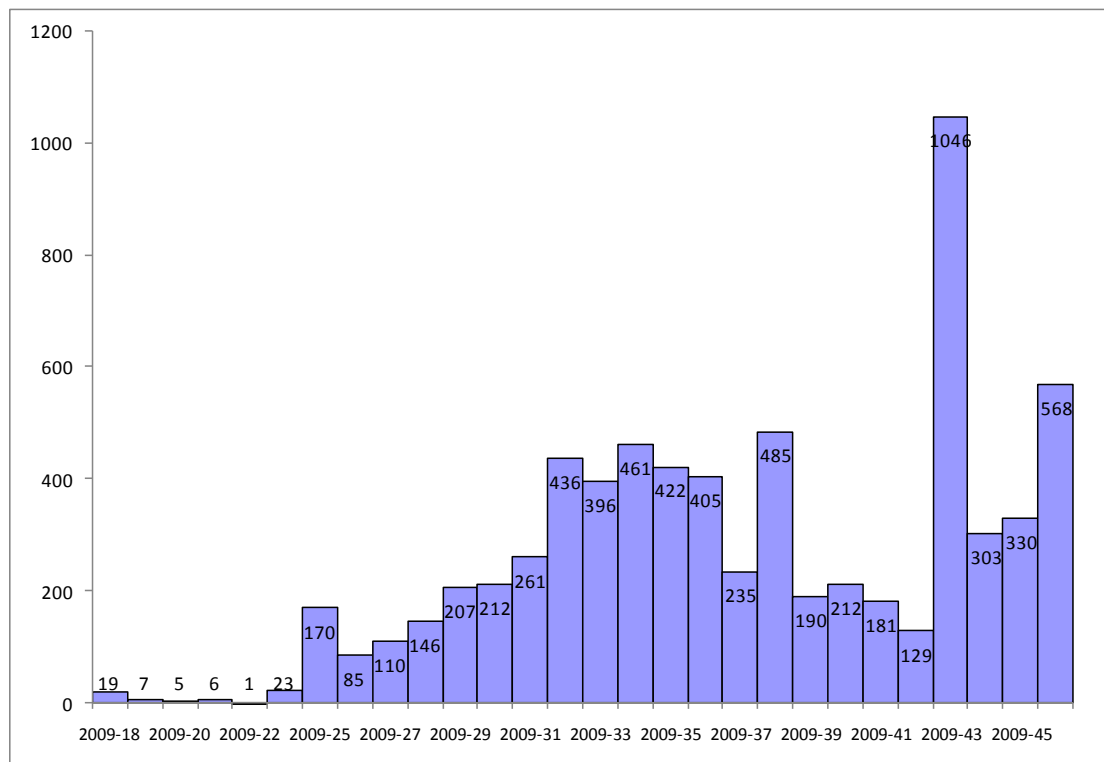
Sri Lanka	-	1
Taiwan	-	29
Total	4	805
SOUTH-EAST ASIA		
Brunei Darussalam	-	1
Cambodia	-	4
Indonesia	-	10
Laos Peoples Democratic Republic	-	1
Malaysia	-	77
Philippines	-	30
Singapore	-	18
Thailand	-	185
Vietnam	-	41
Total	-	367
AUSTRALIA & PACIFIC		
Australia	-	189
Cook Islands	-	1
Marshall Islands	-	1
New Zealand	1	20
Samoa	-	2
Solomon Islands	-	1
Tonga	-	1
Total	1	215
TOTAL	135	7431

^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 48 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 46, 2009) and world (lower panel^a, week 18 to week 46, 2009).



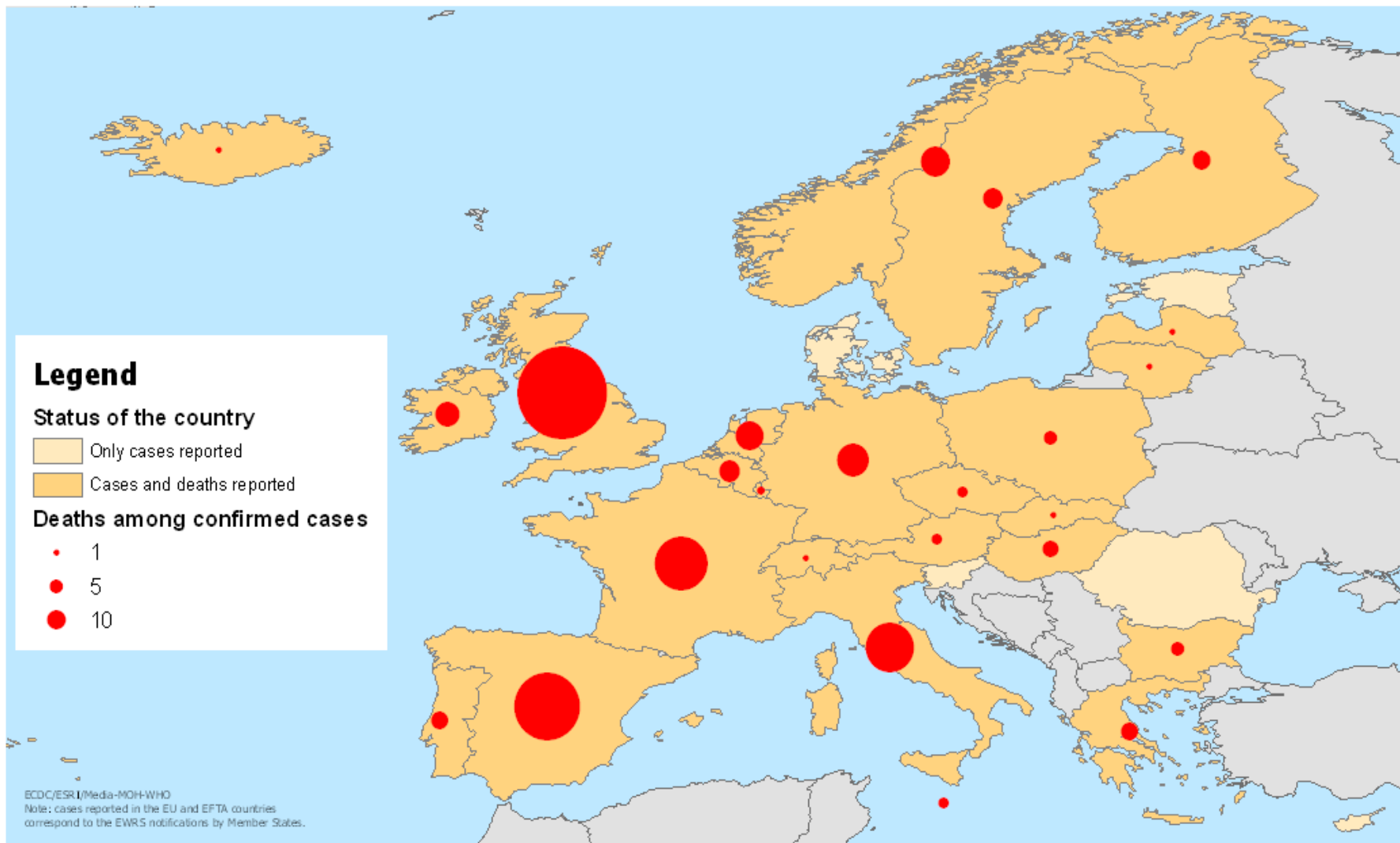
Notification Week



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 20 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 19 November 2009, 16:00 hours CEST

