

SURVEILLANCE REPORT

Weekly influenza surveillance overview

21 January 2011

Main surveillance developments in week 2/2011 (10 Jan 2011–16 Jan 2011)

This first page contains the main developments of this week and can be printed separately or together with the following more detailed information.

- Most countries are now reporting regional or widespread influenza activity, with medium to very high influenza-like illness/acute respiratory infection (ILI/ARI) consultation rates and increasing trends. This is more prominent in Western European countries.
- Forty-three per cent of sentinel swabs tested positive for influenza: 74% were type A, and of the type A viruses subtyped, 99% were A(H1N1) 2009.
- Since week 40/2010, 1711 severe acute respiratory infection (SARI) cases, including 73 fatal cases, have been reported by eight countries.
- The number of severe influenza cases in hospital requiring intensive care is now declining in the UK but are increasing in some other countries.

Sentinel surveillance of influenza-like illness (ILI)/acute respiratory infection (ARI): Twenty of the 27 reporting countries and the UK (England and Scotland) experienced medium or higher influenza activity intensity. Twenty three countries and the UK (England, Scotland and Wales) reported local or wider geographic spread. Twenty five countries reported stable or increasing trends. For more information, [click here](#).

Virological surveillance: Sentinel physicians collected 2428 specimens, 1048 (43%) of which tested positive for influenza. For more information, [click here](#).

Hospital surveillance of severe acute respiratory infection (SARI): At least 35% of the reported SARI cases were admitted to intensive care, and 16% required ventilatory support. For more information, [click here](#).

Weekly analysis – epidemiology

In week 2/2011, 27 countries reported on the geographic spread of influenza (Table 1, Map 2). Widespread activity continued to be seen in Belgium, Denmark, Estonia, France, Ireland, Luxembourg, the Netherlands, Norway, Portugal and the UK (England, Scotland and Wales). Regional activity was still observed in Finland, Italy and Lithuania, and now in Bulgaria, Germany and Latvia. Eight countries reported sporadic or local activity. Austria was the only country still reporting no activity.

Map 1: Intensity for week 2/2011

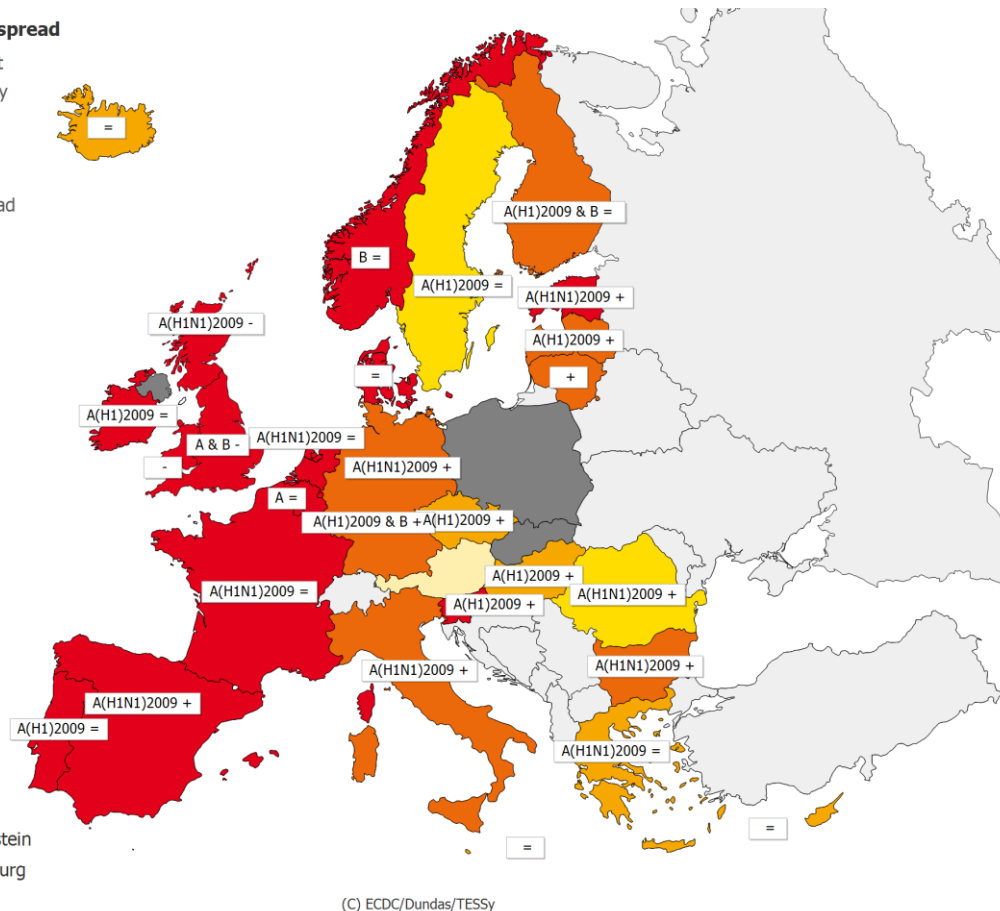


Legend:

Low	No influenza activity or influenza at baseline levels	-	Decreasing clinical activity
Medium	Usual levels of influenza activity	+	Increasing clinical activity
High	Higher than usual levels of influenza activity	=	Stable clinical activity
Very high	Particularly severe levels of influenza activity	A	Type A
		A & B	Type A and B
		A(H1)2009	Type A, Subtype (H1)2009
		A(H1)2009 & B	Type B and Type A, Subtype (H1)2009
		A(H1N1) 2009	Type A, Subtype (H1N1)2009
		B	Type B

Map 2: Geographic spread for week 2/2011**Geographic spread**

- No Report
- No Activity
- Sporadic
- Local
- Regional
- Widespread



* A type/subtype is reported as dominant when at least ten samples have been detected as influenza positive in the country and of those > 40 % are positive for the type/subtype.

Legend:

No activity	No evidence of influenza virus activity (clinical activity remains at baseline levels)	-	Decreasing clinical activity
Sporadic	Isolated cases of laboratory confirmed influenza infection	+	Increasing clinical activity
		=	Stable clinical activity
Local outbreak	Increased influenza activity in local areas (e.g. a city) within a region, or outbreaks in two or more institutions (e.g. schools) within a region (laboratory confirmed)	A	Type A
		A & B	Type A and B
Regional activity	Influenza activity above baseline levels in one or more regions with a population comprising less than 50% of the country's total population (laboratory confirmed)	A(H1)2009	Type A, Subtype (H1)2009
		A(H1)2009 & B	Type B and Type A, Subtype (H1)2009
Widespread	Influenza activity above baseline levels in one or more regions with a population comprising 50% or more of the country's population (laboratory confirmed)	A(H1N1)2009	Type A, Subtype (H1N1)2009
		B	Type B

Table 1: Epidemiological and virological overview by country, week 2/2011

Country	Intensity	Geographic spread	Trend	No. of sentinel swabs	Dominant type	Percentage positive*	ILI per 100.000	ARI per 100.000	Epidemiological overview	Virological overview
			Unknown (no information available)							
Austria	Low	No activity		39	None	35.9	4.8	34.1	Graphs	Graphs
Belgium	Medium	Widespread	Stable	74	A	67.6	441.7	1691.8	Graphs	Graphs
Bulgaria	Medium	Regional	Increasing	13	A(H1)2009	46.2	-	1529.4	Graphs	Graphs
Cyprus	Low	Local	Stable	-	-	0.0	-*	-*	Graphs	Graphs
Czech Republic	Low	Local	Increasing	19	A(H1)2009	36.8	41.4	1017.2	Graphs	Graphs
Denmark	Medium	Widespread	Stable	27	None	55.6	-	-	Graphs	Graphs
Estonia	Medium	Widespread	Increasing	59	A(H1)2009 B,	50.8	17.9	387.8	Graphs	Graphs
Finland	Medium	Regional	Stable	50	A(H1)2009	54.0	-	-	Graphs	Graphs
France	Medium	Widespread	Stable	157	A(H1)2009	56.1	-	2489.0	Graphs	Graphs
Germany	Medium	Regional	Increasing	200	A(H1)2009	53.5	-	1179.6	Graphs	Graphs
Greece	Medium	Local	Stable	14	A(H1)2009	35.7	147.3	-	Graphs	Graphs
Hungary	Medium	Local	Increasing	102	A(H1)2009	23.5	184.0	-	Graphs	Graphs
Iceland	Medium	Local	Stable	-	-	0.0	14.2	-	Graphs	Graphs
Ireland	High	Widespread	Stable	120	A(H1)2009	20.8	173.0	-	Graphs	Graphs
Italy	Medium	Regional	Increasing	94	A(H1)2009	41.5	582.3	-	Graphs	Graphs
Latvia	Low	Regional	Increasing	0	A(H1)2009	0.0	41.0	1212.2	Graphs	Graphs
Lithuania	Medium	Regional	Increasing	-	-	0.0	79.6	712.8	Graphs	Graphs
Luxembourg	Very High	Widespread	Increasing	59	A(H1)2009 B,	130.5	-*	-*	Graphs	Graphs
Malta	Medium	Local	Stable	-	-	0.0	-*	-*	Graphs	Graphs
Netherlands	Medium	Widespread	Stable	40	A(H1)2009	52.5	70.8	-	Graphs	Graphs
Norway	High	Widespread	Stable	15	B	66.7	181.5	-	Graphs	Graphs
Poland				-	-	0.0	-	-		
Portugal	Medium	Widespread	Stable	21	A(H1)2009	14.3	68.8	-	Graphs	Graphs
Romania	Low	Sporadic	Increasing	51	A(H1)2009	11.8	19.7	783.6	Graphs	Graphs
Slovakia				1	None	0.0	-	-	Graphs	Graphs
Slovenia	Medium	Widespread	Increasing	70	A(H1)2009	58.6	55.3	1664.8	Graphs	Graphs
Spain	Medium	Widespread	Increasing	522	A(H1)2009	44.1	237.0	-	Graphs	Graphs
Sweden	Low	Sporadic	Stable	81	A(H1)2009	25.9	25.8	-	Graphs	Graphs
UK - England	Medium	Widespread	Decreasing	541	AB	27.7	66.5	530.4	Graphs	Graphs
UK - Northern Ireland				-	-	0.0	-	-		
UK - Scotland	Medium	Widespread	Decreasing	59	A(H1)2009	88.1	19.3	326.6	Graphs	Graphs
UK - Wales	Low	Widespread	Decreasing	-	-	0.0	51.5	-	Graphs	Graphs
Europe				2428		43.2				Graphs

*Incidence per 100 000 is not calculated for these countries as no population denominator is provided.
 Note: Liechtenstein is not reporting to the European Influenza Surveillance Network

Description of the system

This surveillance is based on nationally organized sentinel networks of physicians, mostly general practitioners (GPs), covering at least 1–5% of the population in their countries. All EU/EEA Member States (except Liechtenstein) are participating. Depending on their country's choice, each sentinel physician reports the weekly number of patients seen with influenza-like illness (ILI), acute respiratory infection (ARI) or both to a national focal point. From the national level, both numerator and denominator data are then reported to the European Surveillance System (TESSy) database. Additional semi-quantitative indicators of intensity, geographic spread and trend of influenza activity at the national level are also reported.

Virological surveillance

Weekly analysis – virology

In week 2/2011, 23 countries reported virological data. Sentinel physicians collected 2428 specimens, 1048 (43%) of which tested positive for influenza (Tables 1 and 2). This represents the second decrease after the peak reached in week 52/2010 (Figure 3). However, proportions of influenza-positive sentinel samples of more than 60% were reported by Belgium, Norway, the UK (Scotland), and Portugal, followed by proportions $\geq 50\%$ in Denmark, Estonia, Finland, France, Germany, Greece, the Netherlands and Slovenia (Table 1). In addition, 3623 non-sentinel source specimens (i.e. specimens collected for diagnostic purpose in hospitals) were reported positive for influenza virus.

Of the 4671 influenza viruses detected during week 2/2011, 3351 (71.7%) were type A and 1320 (28.3%) were type B. Of the 685 sentinel influenza A viruses that were subtyped, 679 (99.1%) were A(H1N1) 2009 and six (0.9%) were A(H3) viruses (Table 2).

Since week 40/2010, 13 914 (72.5%) of the 19 177 influenza virus detections in sentinel and non-sentinel specimens, were type A and 5263 (27.5%) were type B. Of the 3085 sentinel influenza A viruses subtyped, 2971 (96.3%) were A(H1N1) 2009, 113 (3.7%) were A(H3) and one, detected in Poland in week 50/2010, was A(H1) (Table 2). Trends of virological detections since week 40/2010 are shown in Figures 1–3.

Since week 40/2010, 559 influenza viruses from sentinel and non-sentinel specimens have been characterised antigenically (Figure 4): 320 (57.2%) as A/California/7/2009 (H1N1)-like; 56 (10.0%) as A/Perth/16/2009 (H3N2)-like; 172 (30.8%) as B/Brisbane/60/2008-like (Victoria lineage); and 11 (2.0%) as B/Florida/4/2006-like (Yamagata lineage).

In terms of antiviral resistance, since week 40/2010, a total of 681 influenza A(H1N1) 2009 viruses and 59 influenza B viruses have been tested for neuraminidase inhibitor susceptibility. Twenty-six (3.8%) influenza A(H1N1) 2009 viruses were resistant to oseltamivir but remained sensitive for zanamivir. All the resistant viruses carried the H275Y mutation.

Data are from single (e.g. H275Y only) or multiple location mutation analysis (full sequencing) and/or phenotypic characterisation (IC50 determination) and therefore data should be interpreted in this context.

More details on circulating viruses can be found in the December [report](#) prepared by the Community Network of Reference Laboratories (CNRL) coordination team. Also, a detailed analysis of the viruses isolated in the UK was published in [Eurosurveillance](#) indicating no evidence of any antigenic changes in the A(H1N1) 2009 and type B viruses in that country and a good match with the seasonal vaccine viruses.

In week 2/2011, 17 countries reported 1253 respiratory syncytial virus detections, a number that has decreased for the second consecutive week (Figure 5).

Table 2: Weekly and cumulative influenza virus detections by type, subtype and surveillance system, weeks 40/2010–2/2011

Virus type/subtype	Current Period		Season	
	Sentinel	Non-sentinel	Sentinel	Non-sentinel
Influenza A	774	2577	3363	10551
A(H1)2009	679	1339	2971	4834
A (subtyping not performed)	89	1210	278	5582
A (not subtypable)	0	0	0	0
A (H3)	6	28	113	135
A (H1)	0	0	1	0
Influenza B	274	1046	1254	4009
Total Influenza	1048	3623	4617	14560

Note: A(H1)2009, A(H3) and A(H1) includes both N-subtyped and non-N-subtyped viruses

Figure 1: Number of sentinel specimens positive for influenza, by type, subtype and by week of report, weeks 40/2010–2/2011

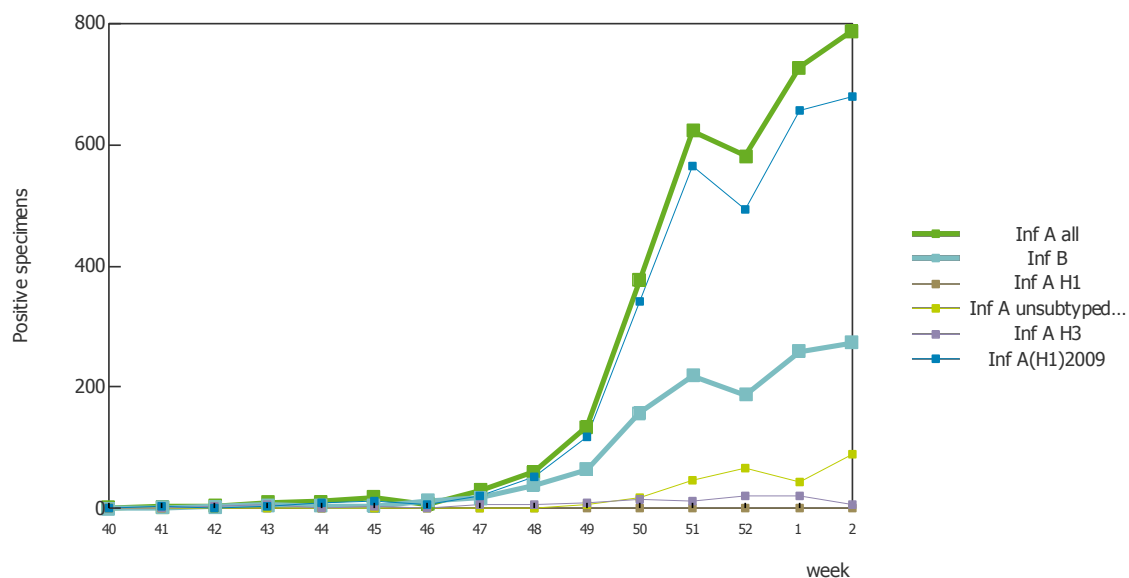


Figure 2: Number of non-sentinel specimens positive for influenza by type, subtype and week of report, weeks 40/2010–2/2011

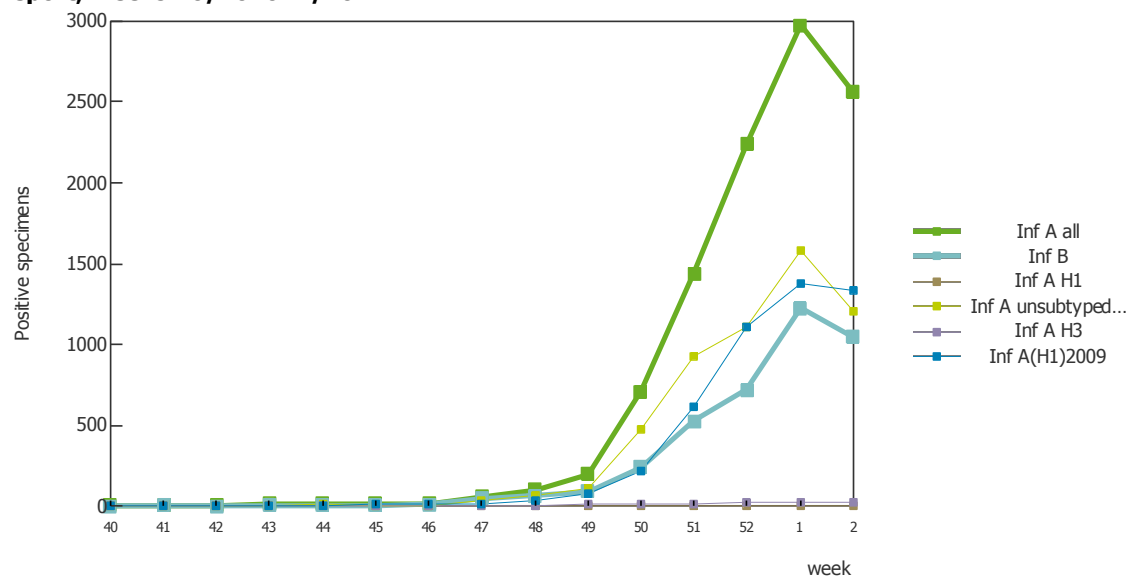


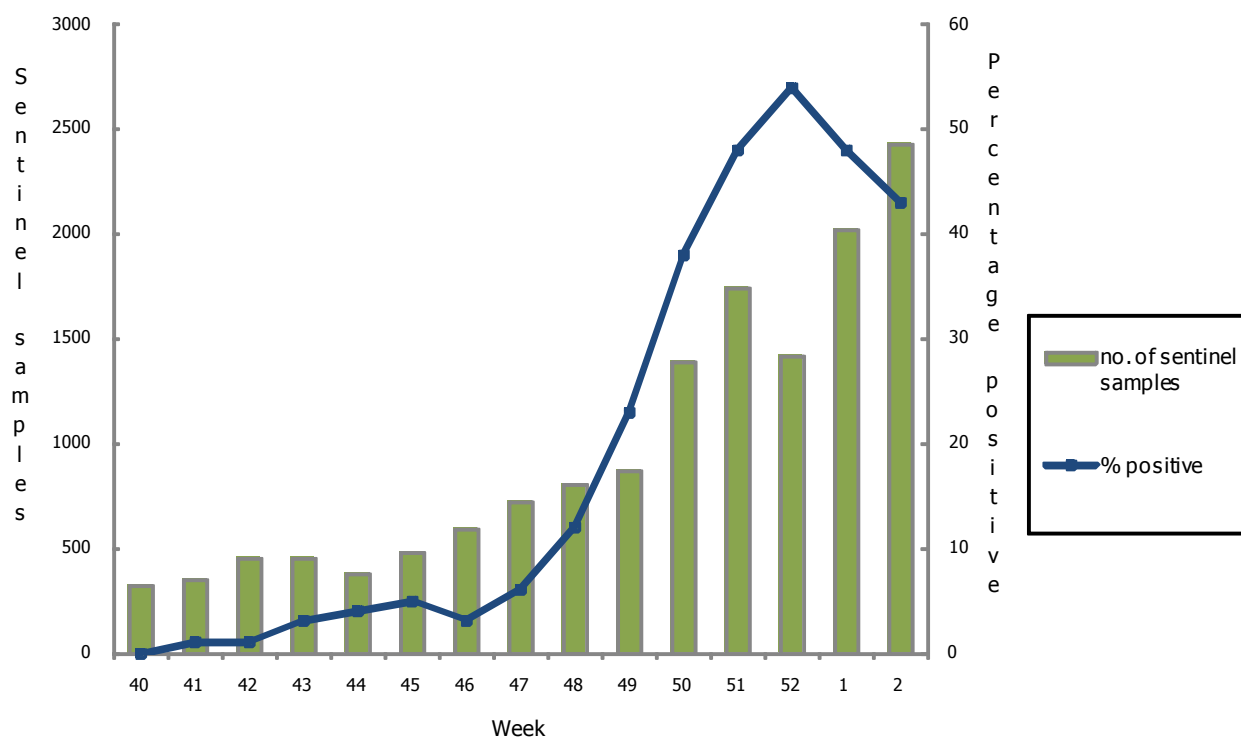
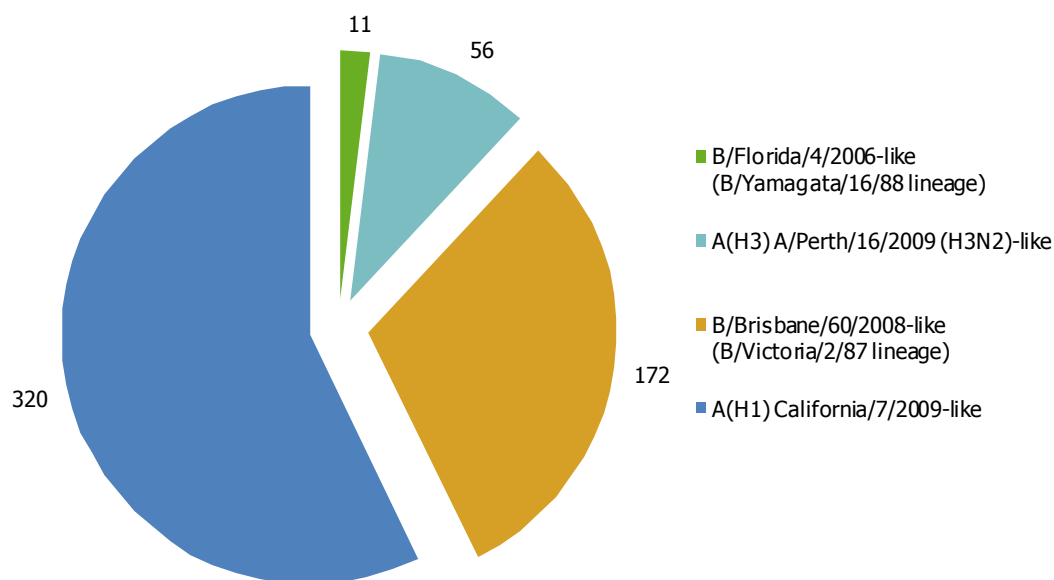
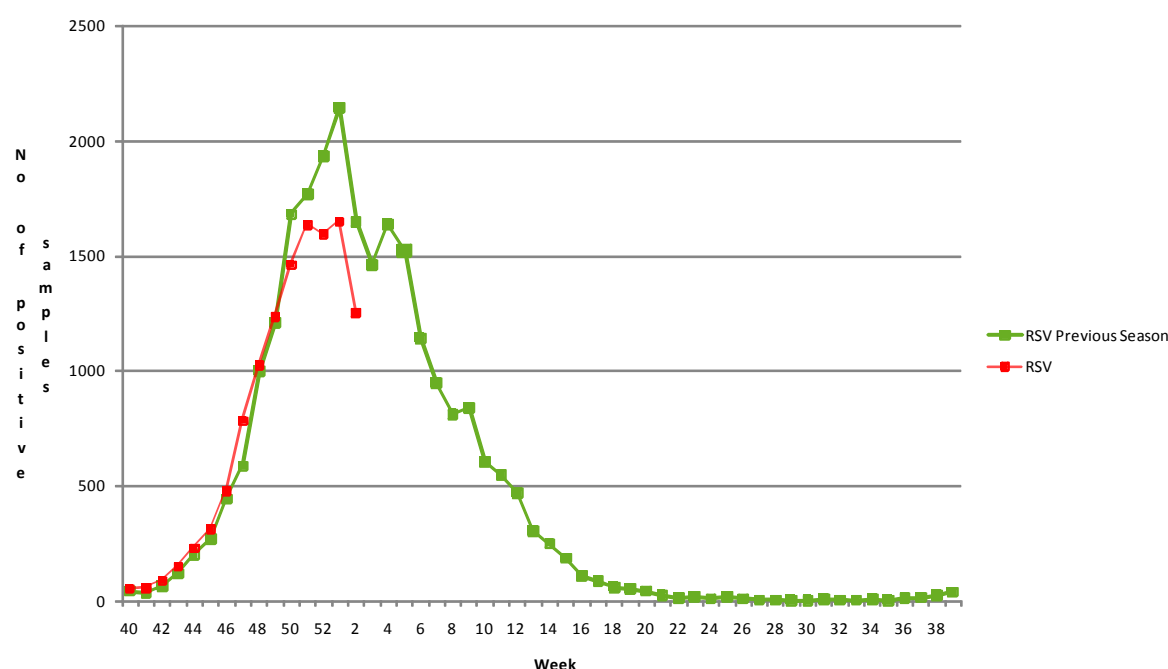
Figure 3: Proportion of sentinel samples positive for influenza, weeks 40/2010–2/2011**Figure 4: Results of antigenic characterisations of sentinel and non-sentinel influenza virus isolates, weeks 40/2010–2/2011**

Table 3: Antiviral resistance by influenza virus type and subtype, weeks 40/2010–2/2011

Virus type and subtype	Resistance to neuraminidase inhibitors				Resistance to M2 inhibitors	
	Oseltamivir		Zanamivir		Isolates tested	Resistant n (%)
	Isolates tested	Resistant n (%)	Isolates tested	Resistant n (%)		
A(H3)	0	0	0	0	0	0
A(H1)	0	0	0	0	0	0
A(H1)2009	681	26 (3.8)	681	0	0	0
B	59	0	59	0	NA*	NA*

* NA - not applicable, as M2 inhibitors do not act against influenza B viruses

Figure 5: Respiratory syncytial virus detections, sentinel and non-sentinel, weeks 40/2010–2/2011

Country comments

Latvia: The first death cases (two) have been confirmed. Both were associated with A(H1N1)2009.

United Kingdom: A small number of B cases and H3 cases were also identified. Severe acute respiratory infection cases continue to be reported, most of which are associated with influenza A(2009) H1N1

Description of the system

According to the nationally defined sampling strategy, sentinel physicians take nasal or pharyngeal swabs from patients with influenza-like illness (ILI), acute respiratory infection (ARI) or both and send the specimens to influenza-specific reference laboratories for virus detection, (sub-)typing, antigenic or genetic characterisation and antiviral susceptibility testing.

For details on the current virus strains recommended by WHO for vaccine preparation [click here](#).

Hospital surveillance – severe acute respiratory infection (SARI)

Weekly analysis – SARI

Since week 40/2010, 1711 SARI cases—including 73 fatal cases—have been reported by eight countries (Table 4). Only three countries—Belgium, Romania and Slovakia—are collecting syndromic SARI cases. The remaining countries are reporting laboratory-confirmed hospitalised influenza cases or severe influenza cases admitted to intensive care, as in Ireland and France.

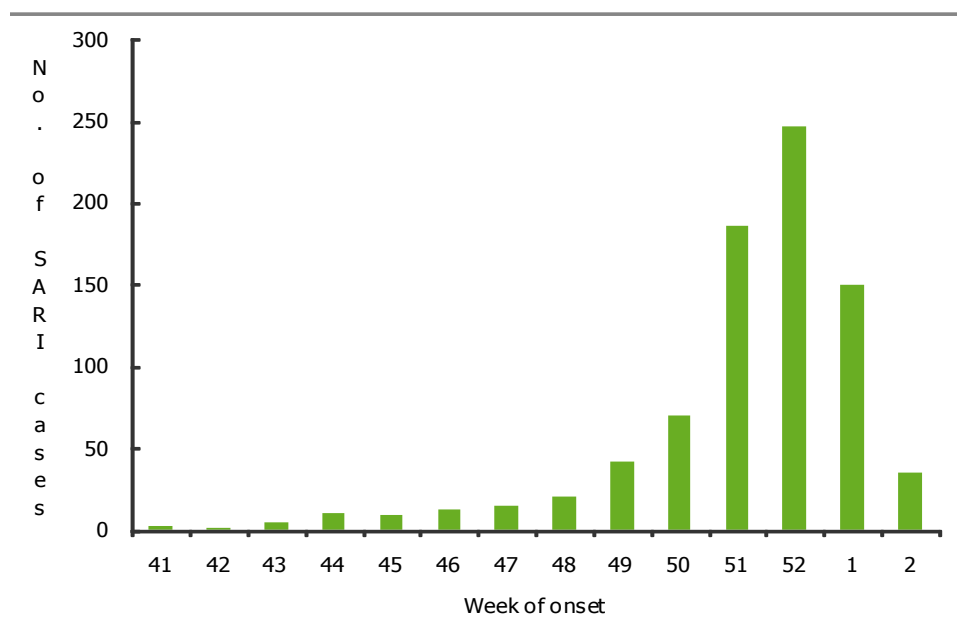
During week 2/2011, 323 SARI cases were reported. Males and females were equally affected (Table 5). The number of SARI cases by week of onset appears to be increasing as there is a reporting delay of about two weeks (Figure 6). However, these increases may simply reflect a new system and new countries, few of which have baselines for these data.

Of the 129 cases that tested positive for influenza reported in week 2/2011, 127 (98.4%) were infected by type A and two (1.6%) by type B viruses (Table 6). All of the 120 type A viruses subtyped were A(H1) 2009. Since week 40/2010, 922 (96.5%) of 955 influenza viruses detected were type A, and 880 (98.1%) of 897 type A viruses subtyped were A(H1) 2009.

Of the 1711 reported cases since week 40/2010, at least 710 (41.5) were admitted to intensive care with 337 (19.7%) requiring ventilatory support (Table 8).

Table 4: Cumulative number of SARI cases, weeks 40/2010—week 2/2011

Country	Number of cases	Incidence of SARI cases per 100,000 population	Number of fatal cases reported	Incidence of fatal cases per 100,000 population	Estimated population covered
Austria	33		3		
Belgium	562				
Spain	570		24		
France	289		29		
Ireland	82		5		
Portugal	79		6		
Romania	91	1.42	6	0.09	6413821
Slovakia	5				
Total	1711		73		6413823

Figure 6: Number of SARI cases by week of onset, weeks 40/2010–week 2/2011**Table 5: Number of SARI cases by age and gender, weeks 40/2010–2/2011**

Age groups	Male	Female	Unknown
Under 2	115	180	4
2-17	109	146	2
18-44	194	202	
45-59	161	236	2
>=60	149	201	1
Unk	3	6	
Total	731	971	9

Table 6: Number of SARI cases by influenza type and subtype, week 2/2011

Virus type/subtype	Number of cases during current week	Cumulative number of cases since the start of the season
Influenza A	127	922
A(H1)2009	120	880
A(subtyping not performed)	7	36
A(H1)		
A(H3)		6
A(H5)		
Influenza B	2	17
Other Pathogen		33
Unknown	67	739
Total	323	1711

Table 7: Number of SARI cases by antiviral treatment, weeks 40/2010–2/2011

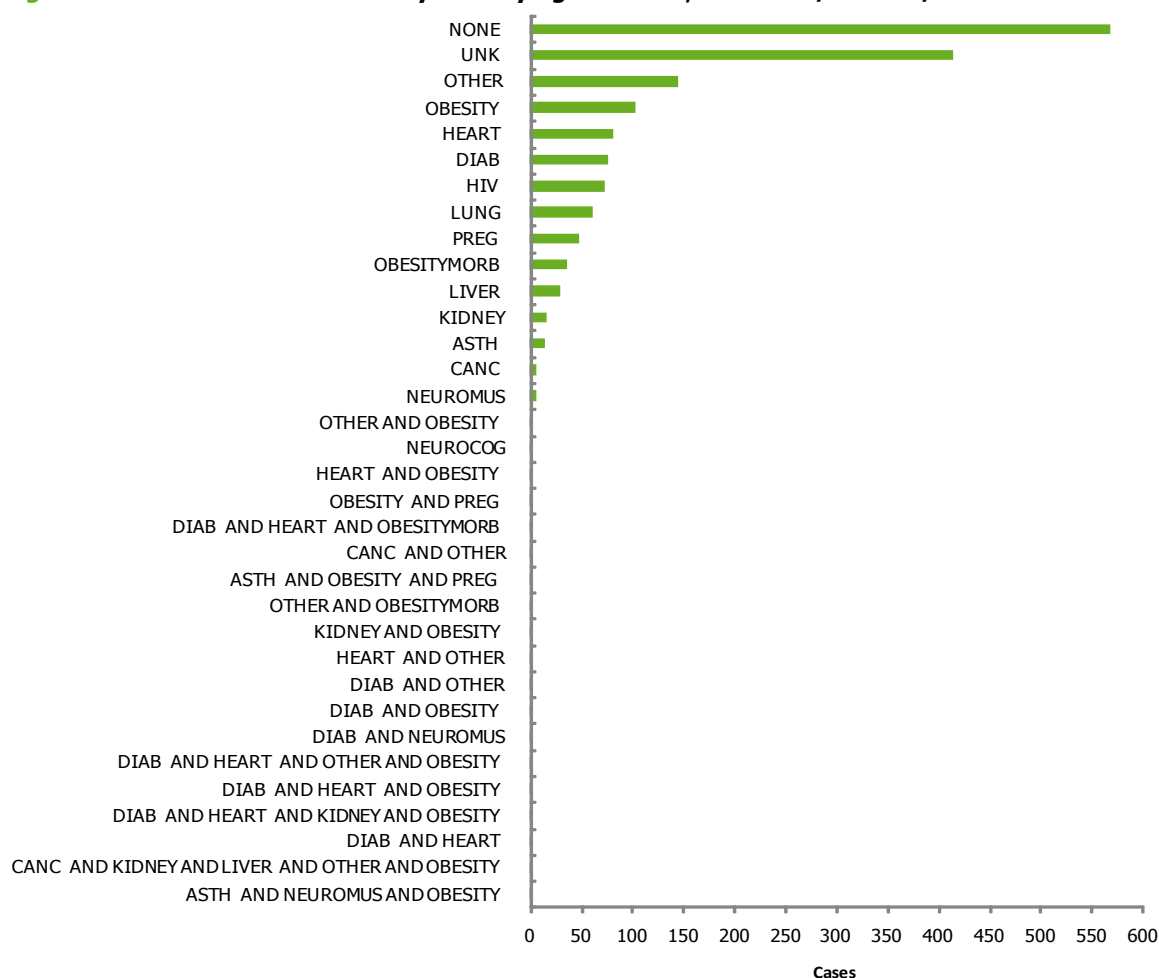
Antiviral treatment	Number of patients who received prophylaxis	Number of patients who received anti-viral treatment
Oseltamivir	1	546
Zanamivir		10
Other (or combinations with other)	3	4
Unknown	1504	1072
None	203	79
Total	1711	1711

Table 8: Number of SARI cases by level of care and respiratory support, weeks 40/2010–2/2011

Respiratory support	ICU	Inpatient ward	Other	Unknown
No respiratory support available		1		
No respiratory support necessary	67	59	268	
Oxygen therapy	43	44	233	
Respiratory support given unknown	263	15	256	114
Ventilator	337	5	5	1

Table 9: Number of SARI cases by vaccination status, weeks 40/2010–2/2011

Vaccination Status	Number Of Cases	Percentage of cases
Both, monovalent 2009 pandemic H1N1 and seasonal 2010 vaccination	36	2.1
Monovalent 2009 pandemic H1N1 vaccination	13	1
Not vaccinated	599	35
Seasonal 2010 vaccination	84	5
Unknown	979	57.2
TOTAL	1711	

Figure 7: Number of SARI cases by underlying condition, weeks 40/2010–2/2011

Note: Other (O) represents any underlying condition other than: asthma(ASTH), cancer(CANC), diabetes(DIAB), chronic heart disease(HEART), HIV/other immune deficiency(HIV), kidney-related conditions(KIDNEY), liver-related conditions(LIVER), chronic lung disease(LUNG), neurocognitive disorder (including seizure)(NEUROCOG), neuromuscular disorder(NEUROMUS), obesity (BMI between 30 and 40)(OBESITY), morbid obesity (BMI above 40)(OBESITYMORB), pregnancy(PREG). NONE is reported if there were no underlying conditions and UNK when the underlying conditions were unknown.

Table 10: Number of underlying conditions in SARI cases by age group, weeks 40/2010–2/2011

Underlying condition/risk factor	0-11 months	1-4 years	5y-14	15-24	25-64	>=65
Asthma		1	2	1	12	1
Cancer		1			7	2
Diabetes			1		61	24
Chronic heart disease	4	1	1	2	50	33
HIV/other immune deficiency		3	1	3	45	21
Chronic lung disease	2	1	1	2	36	19
Obesity (BMI between 30 and 40)				1	106	12
Pregnancy				8	45	
No underlying condition	205	152	42	11	137	22
Underlying condition unknown	32	44	20	15	250	53
Other (including all other conditions)	19	12	11	4	124	85

Table 11: Additional clinical complications in SARI cases by age group, weeks 40/2010–2/2011

Additional clinical complications	0-11 months	1-4 years	5y-14	15-24	25-64	>=65
Acute respiratory distress syndrome	27	29	9	14	204	39
Bronchiolitis	1				1	
None	4	4		5	22	9
Other (please specify separately)		2	1		13	4
Pneumonia (secondary bacterial infection)	15	28	7	15	317	73
Sepsis/Multi-organ failure					7	4
Unknown	215	153	62	13	290	141

Country comments

Czech Republic: Last week, three additional SARI cases with laboratory-confirmed pandemic strain were reported; all males (56, 57 and 60 years old) with underlying conditions.

Denmark Statens Serum Institut: Until 17 January 2011, a total of 39 Influenza patients have been reported by intensive care units (ICUs) in Denmark: 14 women and 25 men. The median age was 55 years (range 15–83 years).

Of the 39 patients, 11 were newly admitted to ICU in week 2/2011. The number of new cases did not increase compared to last week. There is, however, an increasing pressure on the wards, reflected by the increasing proportion of ICU beds used for influenza patients. On Monday 17 January 2011 at 8:00 am, 24 influenza patients were in ICUs, corresponding with 7.5% of the total number of occupied ICU beds in the country and 13.0% in the Central Region. Thirty-three patients had influenza A, eleven of whom were further subtyped and had subtype H1N1. Six patients had influenza B. Four patients with influenza A died. Six patients were previously healthy people. For 26 patients one or more underlying conditions were reported. Chronic obstructive lung disease, chronic lymphatic leukemia, alcoholism, obesity and hypertension were mentioned several times. Other underlying conditions were Wegener's granulomatosis, kidney failure, asthma and immunosuppressive treatment. There were no pregnant women among the reported patients. Four patients received Extracorporeal membrane oxygenation treatment.

Ireland Health Protection Surveillance Centre: So far for the 2010/2011 season, 82 influenza cases have been admitted to intensive care in Ireland: 81 A(H1N1) 2009 and one A H3. Six influenza associated deaths have been reported to HPSC this season: 5 A(H1N1) 2009 (all admitted to ICU) and one influenza B death (not admitted to ICU). During week 2/2011, the number of hospitalised cases of influenza has continued to increase, with 573 cases hospitalised to date this season (as of January 19th 2011) and reports of 90 cases admitted to ICU. Enhanced surveillance information is available for 82 cases, 73 of whom are adults and nine are paediatric cases. Fifty-two (63.4%) of the 82 cases are currently in ICU. Sixty of the 82 (73.1%) cases have underlying medical conditions: 54 adults and six paediatric cases. The underlying medical conditions include chronic respiratory disease, chronic heart disease, immunosuppression, pregnancy, metabolic disorders and morbid obesity. The Health Protection Surveillance Centre has been informed of six influenza associated deaths to date this season, five influenza A (H1N1) 2009 and one influenza B. One death was in a patient in the 0–4 year age group, two patients were in the 15–64 year age group and three patients were aged 65 years or older. Five deaths occurred in patients with underlying medical conditions. One death occurred in week 52/2010, one in week 1/2011 and four in week 2/2011. For further data and analyses, see the HSPC Report [here](#).

The Netherlands RIVM: Since the start of October 2010 and as of October 20th, a total of 288 hospital admissions due to a reported laboratory-confirmed infection with influenza A (H1N1) in 2009 has taken place in the Netherlands. There were also 11 deaths with a laboratory-confirmed infection with influenza A(H1N1) reported. The number of hospital admissions due to influenza A(H1N1) in 2009 has continued to rise since last week. For more detail see the RIVM Report [here](#).

Spain: In Spain, information on severe illness due to influenza infection admitted to hospitals comes from a surveillance system developed during the 2009/2010 pandemic season for reporting severe hospitalised confirmed influenza cases. Since week 40/2010 and up to week 02/2011, there have been 517 severe hospitalised confirmed influenza cases reported (including 24 fatal cases). Severely affected cases are mostly in the 15–64 age group (69%) some without underlying conditions (22%). Most of the severe cases and deaths have been associated with A (H1N1)2009 and have not previously been vaccinated.

United Kingdom: The number of patients in England with confirmed or suspected influenza in critical care beds have declined from a peak of nearly 800 two weeks ago (equivalent to 1.4 per 10⁵ population) to around 400 cases on January 20 2011. Over 80% of these are in the 16–64 year age group. For further information, click [here](#).

Up until 19 January 2011, 254 fatal influenza cases from across the UK were reported to the HPA, including 165 cases from England. Further epidemiological information on cases is available on 214 of these cases. One hundred and ninety-five (91%) of these cases were associated with H1N1 (2009) infection, three with untyped influenza A and 16 (7%) with influenza B infection. Reported deaths have been mainly in younger adults and children. Among the 210 cases with information on age, seven (3%) have been younger than 5 years, 11 (5%) in the 5–14 year age group, 137 (65%) from 15 to 64 years and 55 (26%) were older than 64 years of age. One hundred and twenty-eight of 159 fatal cases with available information (81%) were in one of the clinical risk groups for vaccination, which includes pregnant women. The leading reported clinical risk factors for those with information were underlying respiratory disease, including asthma (n=29) and neurological disease (n=15). Conversely, 19% of the deaths were in healthy people outside these risk groups (click [here](#) for report). For further information, click [here](#).

The report text was written by an editorial team at the European Centre for Disease Prevention and Control (ECDC): Eva Broberg, Flaviu Plata, Phillip Zucs and René Snacken. The bulletin text was reviewed by the Community Network of Reference Laboratories for Human Influenza in Europe (CNRL) coordination team: Adam Meijer, Rod Daniels, John McCauley and Maria Zambon. On behalf of the EISN members the bulletin text was reviewed by Bianca Snijders (RIVM Bilthoven, The Netherlands) and Thedi Ziegler (National Institute for Health and Welfare, Finland)

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All data published in the WISO are up-to-date on the day of publication. Past this date, however, published data should not be used for longitudinal comparisons as countries tend to retrospectively update their numbers in the database.

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