

Influenza-like illness

Results from the electronic surveillance of communicable diseases from 12/08/2014 to 12/14/2014.

INFLUENZA-LIKE ILLNESS

Low activity, increasing

Sentinel physicians monitor the number of ILI seen in consultations (defined by sudden fever > 39°C (>102°F) with myalgia and respiratory signs).

Clinical monitoring: in metropolitan France, last week, the incidence rate of influenza-like illness seen in general practice was estimated at 77 cases per 100,000 inhabitants, 95% CI [61 ; 93], (49,000 new cases), below the epidemic threshold (168 cases per 100,000) [1].

At the regional level, the highest incidence rates were noted in: Nord-Pas-de-Calais (230 cases per 100,000 inhabitants), Bourgogne (218) and Franche-Comté (188) (the regional data are presented at the end of this newsletter).

Regarding the cases reported last week, the median age was 32 years (22 months to 97 years). Males accounted for 53% of the cases. These cases showed no particular sign of severity: there were no hospitalized cases reported for influenza-like illness last week.

Virological surveillance

Since week 2014w40 of resumption of monitoring, 286 samples were collected by Sentinelles network general practitioners. Among them, 14 influenza viruses have been identified:

- 4 A(H1N1)2009 type virus,
- 7 A(H3N2) type virus,
- 3 B type virus.

Forecast: according to the forecast model based on historical data [2], and on medication sales (IMS-Health research partnership) [3], the intensity of influenza activity should moderately increase next weeks (see the graph hereafter).

[More information about this surveillance](#)

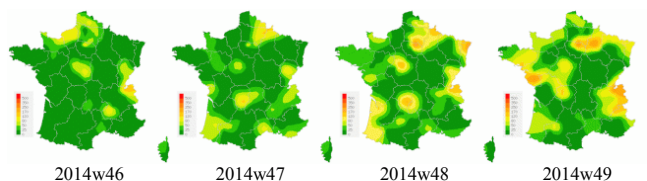
The Sentinelles network team

[1] Costagliola D, et al. A routine tool for detection and assessment of epidemics of influenza-like syndromes in France. *Am J Public Health.* 1991;81(1):97-9.

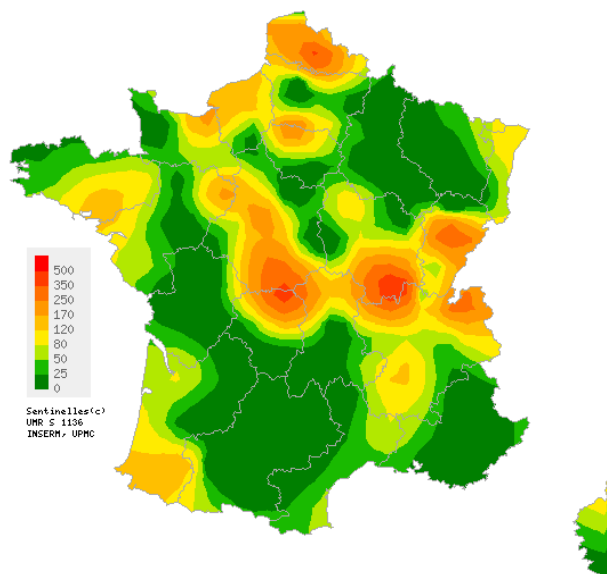
[2] Viboud C, et al. Prediction of the spread of influenza epidemics by the method of analogues. *Am J Epidemiol.* 2003 Nov 15;158(10):996-1006.

[3] Vergu E, et al. Medication sales and syndromic surveillance, France. *Emerg Infect Dis.* 2006. 12(3):416-21.

Current activity



Consolidated data for the last 4 weeks

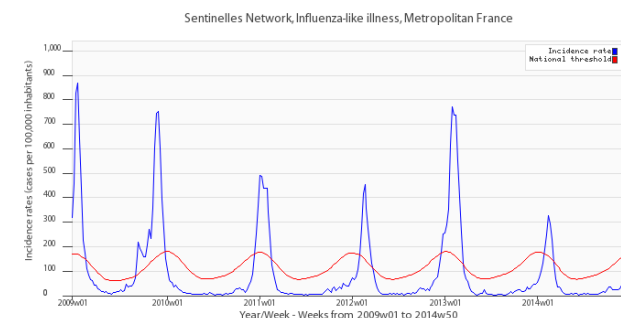


Week 2014w50

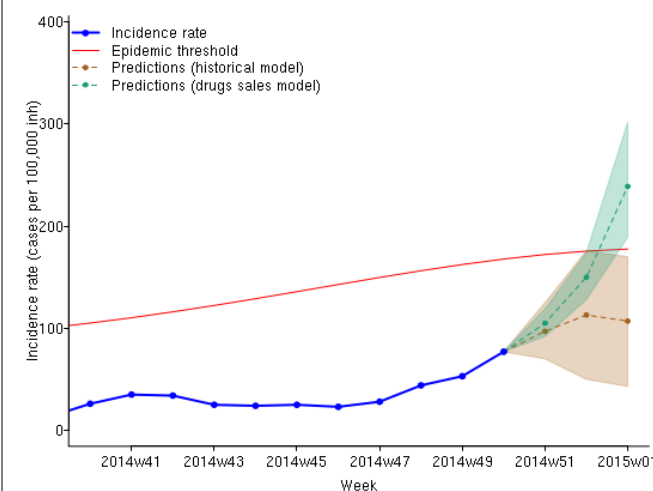
Map of data spatial interpolation.
The interpolation is based on the departmental incidence.
(cases per 100,000 inhabitants)

Maps available at <http://www.sentiweb.fr/>

Predictions



Incidence rate in blue,
epidemic threshold in red calculated by a periodic regression model [1]
(in cases per 100,000 inhabitants).



Predicted incidence rate for the next three weeks
based on a forecast model on historical data [2] (in brown),
and on drug sales [3] (in green)
(IMS-Health partnership)

Acute diarrhea

Results from the electronic surveillance of communicable diseases from 12/08/2014 to 12/14/2014.

ACUTE DIARRHEA High activity, increasing

Sentinel physicians monitor the number of acute diarrhea seen in consultations (defined by recent acute diarrhea (at least 3 daily watery or nearly so stools, dating less than 14 days, motivating consultation).

Clinical monitoring: in metropolitan France, last week, the incidence rate of acute diarrhea seen in general practice was estimated at 253 cases per 100,000 inhabitants (95% CI [224 ; 282]), 160,000 new cases, on the increase over the previous week and just **below** the epidemic threshold (269 cases per 100,000) [1].

At the regional level, the highest incidence rates were noted in: Limousin (361 cases per 100,000 inhabitants), Provence-Alpes-Côte-d'Azur (342) and Ile-de-France (338) (the regional data are presented at the end of this newsletter).

Regarding the cases reported last week, the median age was 23 (3 months to 100 years). Males accounted for 50% of the cases. These cases showed no particular sign of severity: the percentage of hospitalization was estimated at 0.9% (95% CI [0.0 ; 1.8]).

Forecast: according to the forecast model based on historical data [2], the level of activity of acute diarrhea would increase and exceed the threshold next weeks (see the graph hereafter).

A second detection model of gastroenteritis epidemics is based on medication sales [3] (IMS-Health research partnership). Last week two of the four drugs classes monitored has exceeded their alert threshold, confirming an increased activity.

[More information about this surveillance](#)

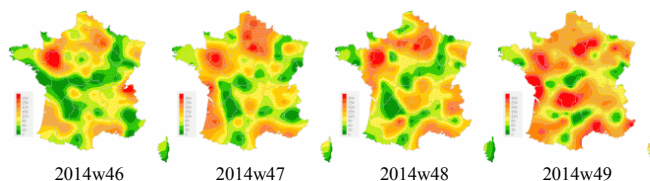
The Sentinelles network team

[1] Costagliola D, et al. A routine tool for detection and assessment of epidemics of influenza-like syndromes in France. *Am J Public Health*. 1991;81(1):97-9.

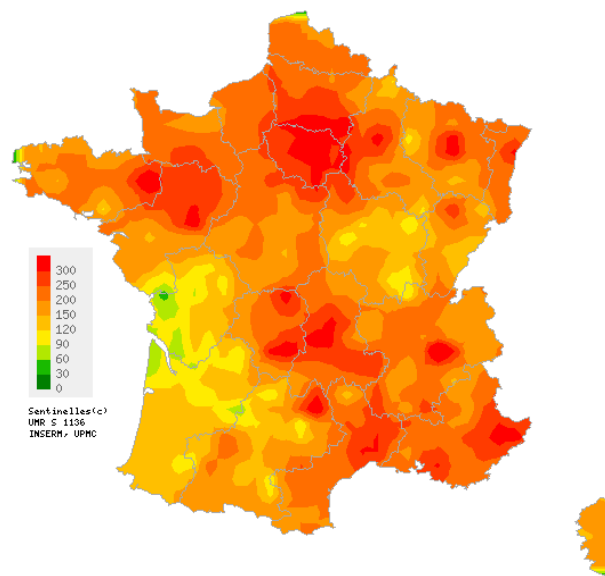
[2] Viboud C, et al. Prediction of the spread of influenza epidemics by the method of analogues. *Am J Epidemiol*. 2003 Nov 15;158(10):996-1006

[3] Pelat C, et al. A method for selecting and monitoring medication sales for surveillance of gastroenteritis. *Pharmacoepidemiol Drug Saf*. 2010 Oct;19(10):1009-18.

Current activity



Consolidated data for the last 4 weeks

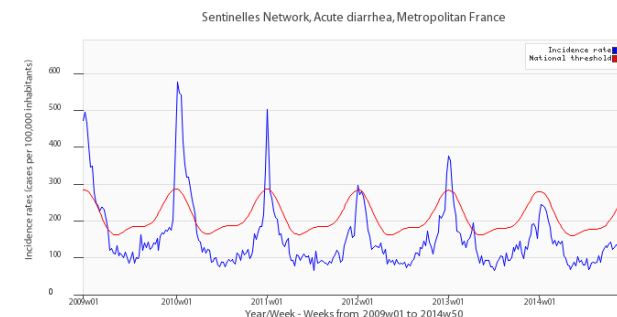


Week 2014w50

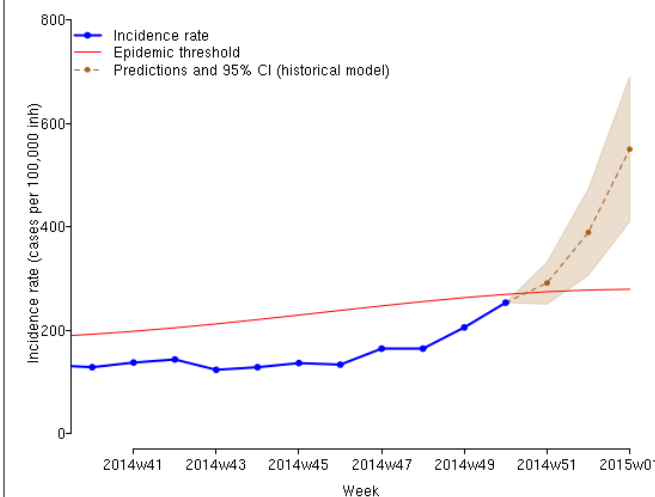
Map of data spatial interpolation.
The interpolation is based on the departmental incidence.
(cases per 100,000 inhabitants)

Maps available at <http://www.sentiweb.fr/>

Predictions



Incidence rate in blue,
epidemic threshold in red calculated by a periodic regression model [1]
(in cases per 100,000 inhabitants).



Predicted incidence rate for the next three weeks
based on a forecast model on historical data [2] (in brown)
(IMS-Health partnership)

Chickenpox

Results from the electronic surveillance of communicable diseases from 12/08/2014 to 12/14/2014:

CHICKENPOX Low activity

In metropolitan France, last week, the incidence rate of Chickenpox seen in general practice was estimated at 13 cases per 100,000 inhabitants (95% CI [7 ; 19]).

Five moderate regional clusters were reported in Alsace (38), Centre (30), Limousin (23), Corse (23) and Rhône-Alpes (20). *

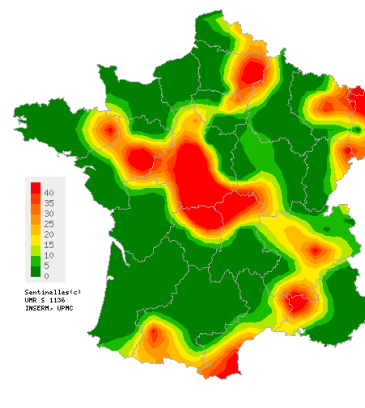
[More information about this surveillance](#)

The Sentinelles network team

* The regional data are presented at the end of this report.

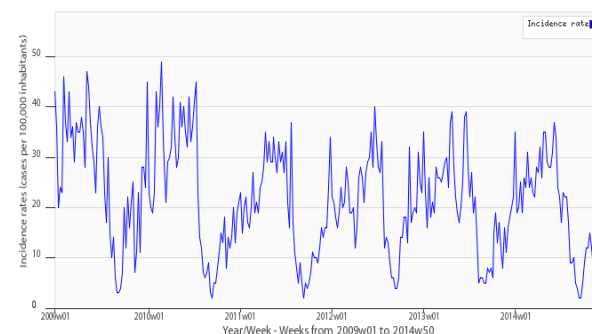
Observed situations and National incidence trend

Week 2014w50 (in cases per 100,000 inhabitants)



Map of spatial data interpolation based on incidence rates at the « département » (NUTS 3) level.
Maps available at <http://www.sentiweb.fr>

Sentinelles Network, Chickenpox, Metropolitan France



Incidence rate in blue
(in cases per 100,000 inhabitants).

National incidence rates (per 100 000 inhabitants) over the past 3 weeks	2014w50 (non consolidated)	2014w49	2014w48
	Incidence rate estimation [95% confidence interval]	Incidence rate estimation [95% confidence interval]	Incidence rate estimation [95% confidence interval]
INFLUENZA-LIKE ILLNESS	77 [61 ; 93]	53 [43 ; 63]	44 [34 ; 54]
ACUTE DIARRHEA	253 [224 ; 282]	205 [185 ; 225]	164 [146 ; 182]
CHICKENPOX	13 [7 ; 19]	10 [6 ; 14]	6 [2 ; 10]

Table 1 : Incidence rates estimation with 95% confidence interval, for each indicator, in France, over the past 3 weeks .

Regional incidence rates for week 2014w50 (per 100 000 inhabitants)	INFLUENZA-LIKE ILLNESS	ACUTE DIARRHEA	CHICKENPOX
	Incidence rate estimation [95% confidence interval]	Incidence rate estimation [95% confidence interval]	Incidence rate estimation [95% confidence interval]
Alsace	85 [0 ; 181]	334 [144 ; 524]	38 [0 ; 102]
Aquitaine	77 [0 ; 182]	85 [0 ; 194]	0 [0 ; 0]
Auvergne	38 [0 ; 95]	263 [124 ; 402]	14 [0 ; 53]
Basse-Normandie	111 [0 ; 252]	87 [19 ; 155]	0 [0 ; 0]
Bourgogne	218 [0 ; 594]	77 [14 ; 140]	3 [0 ; 15]
Bretagne	84 [0 ; 242]	224 [110 ; 338]	14 [0 ; 39]
Centre	76 [27 ; 125]	162 [81 ; 243]	30 [0 ; 60]
Champagne-Ardenne	9 [0 ; 31]	228 [103 ; 353]	0 [0 ; 0]
Corse	84 [7 ; 161]	62 [0 ; 124]	23 [0 ; 64]
Franche-Comté	188 [0 ; 401]	236 [49 ; 423]	6 [0 ; 46]
Haute-Normandie	95 [0 ; 213]	222 [54 ; 390]	0 [0 ; 0]
Ile-de-France	126 [67 ; 185]	338 [239 ; 437]	12 [0 ; 34]
Languedoc-Roussillon	50 [0 ; 108]	294 [157 ; 431]	15 [0 ; 44]
Limousin	106 [9 ; 203]	361 [149 ; 573]	23 [0 ; 67]
Lorraine	14 [0 ; 69]	238 [64 ; 412]	15 [0 ; 52]
Midi-Pyrénées	0 [0 ; 0]	183 [76 ; 290]	4 [0 ; 15]
Nord-Pas-de-Calais	230 [111 ; 349]	189 [80 ; 298]	17 [0 ; 50]
Pays-de-la-Loire	58 [0 ; 119]	228 [92 ; 364]	14 [0 ; 54]
Picardie	0 [0 ; 0]	210 [0 ; 426]	18 [0 ; 78]
Poitou-Charentes	4 [0 ; 17]	29 [0 ; 120]	0 [0 ; 0]
Provence-Alpes-Côte-d'Azur	12 [0 ; 32]	342 [189 ; 495]	8 [0 ; 23]
Rhône-Alpes	117 [59 ; 175]	275 [202 ; 348]	20 [0 ; 41]

Table 2 : Incidence rates estimation with 95% confidence interval, for each indicator, for each French regions, for week 2014w50 .

Réseau Sentinelles

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*The " Réseau Sentinelles" or Sentinelles Network
(a.k.a. French Communicable Diseases Computer Network)
is a network of general practitioners,
working throughout the metropolitan regions of France.
This group includes 1268 physicians, including 386 involved in the clinical
surveillance activity, enabling the achievement of weekly newsletters.
This network is developped in cooperation between Inserm, Université
Pierre et Marie Curie (UPMC) and the Institut de Veille Sanitaire (InVS).*

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