

Acute Diarrhea

ACUTE DIARRHEA Moderate to high activity

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 155 cases per 100,000 inhabitants (95% CI [133 ; 177]), **just above** the epidemic threshold (154 cases per 100,000) [1].

Available data shows a moderate increase in acute diarrhea activity, with incidence rates close to the epidemic threshold since two weeks. The current activity is greater than the average activity observed in recent years over the same period. However, the activity level of gastroenteritis in metropolitan France remains moderate.

At the regional level, the highest incidence rates were noted in: Grand Est (297 cases per 100,000 inhabitants, 95% CI [180 ; 414]), Ile-de-France (213, 95% CI [127 ; 299]) and Pays de la Loire (211, 95% CI [84 ; 338]) (the regional data are presented at the end of this newsletter).

Forecast: according to the forecast model based on historical data [2], the activity level of acute diarrhea should remain stable or increase slightly in the coming weeks (see the graph hereafter).

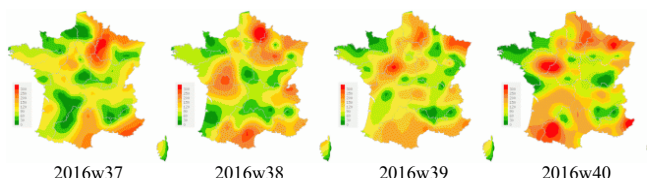
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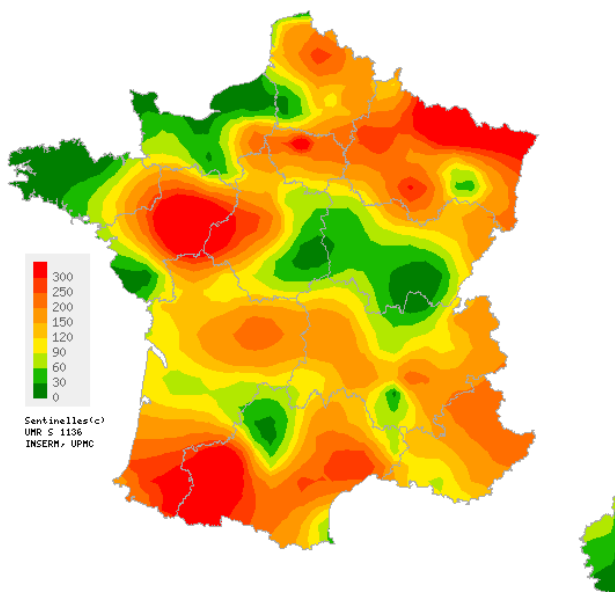
* The regional data are presented at the end of this report.

[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.

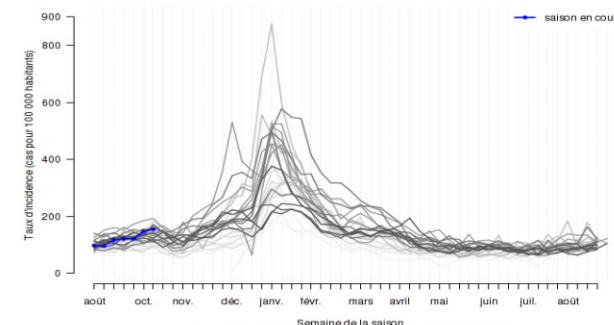
[2] Viboud C, et al. Prediction of the spread of influenza epidemics by the method of analogues. *Am J Epidemiol.* 2003 Nov 15;158(10):996-1006.



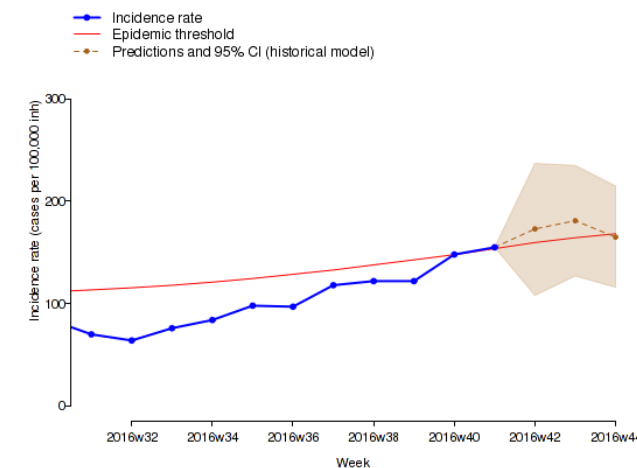
Consolidated data for the last 4 weeks



Map of spatial data interpolation
based on acute diarrhea incidence rates
at the « département » (NUTS 3) level (per 100 000 inhabitants),
Sentinelles general practitioners, 2016w41
[Maps available at http://www.sentiweb.fr](http://www.sentiweb.fr)



Incidence rate of acute diarrhea since 1990
(per 100 000 inhabitants), Sentinelles general practitioners.
In Blue : season 2016-17 in gray: seasons of 1990 to 2016
(clearer the curve older the data)



Predicted acute diarrhea incidence rate for the next three weeks
based on a forecast model on historical data [2]
Sentinelles general practitioners

CHICKENPOX

Low activity

In metropolitan France, last week, the incidence rate of Chickenpox seen in general practice was estimated at 10 cases per 100,000 inhabitants (95% CI [4 ; 16]).

Two regional clusters were reported, **high** in Grand Est (43 cases per 100,000 inhabitants, 95% CI [0 ; 90]) and **moderate** in Provence-Alpes-Côte d'Azur (21, 95% CI [0 ; 63]). *

[More information about this surveillance](#)

INFLUENZA-LIKE ILLNESS

Low activity

In metropolitan France, last week, the incidence rate of Influenza-like illness seen in general practice was estimated at 16 cases per 100,000 inhabitants (95% CI [9 ; 23]), **below** the epidemic threshold (115 cases per 100,000 inhabitants) [1].

At the regional level, the highest incidence rates were noted in: Auvergne-Rhône-Alpes (37 cases per 100,000 inhabitants, 95% CI [14 ; 60]), Corse (23, 95% CI [0 ; 65]) and Bourgogne-Franche-Comté (22, 95% CI [0 ; 56]). *

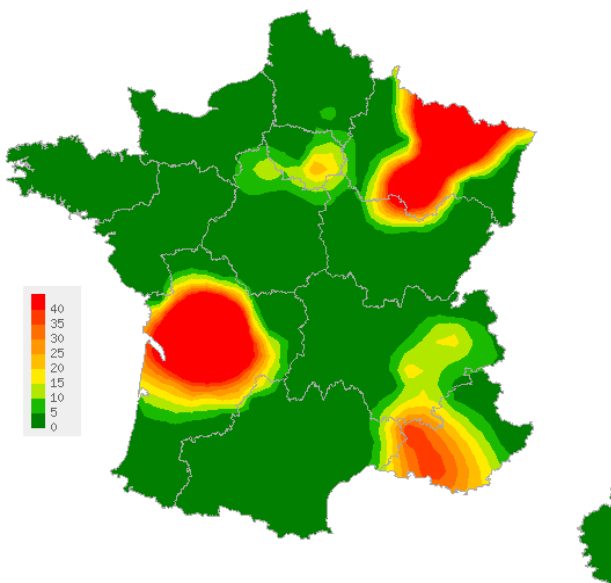
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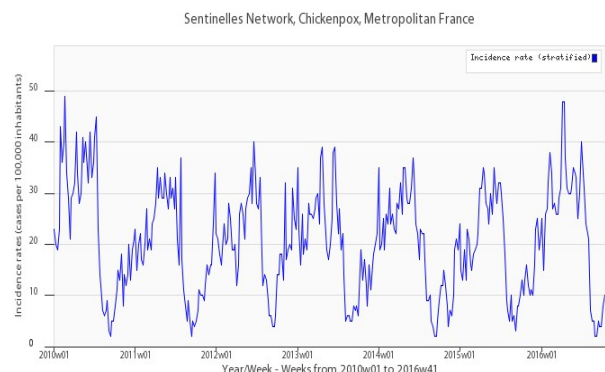
* The regional data are presented at the end of this report.

[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.

CHICKENPOX

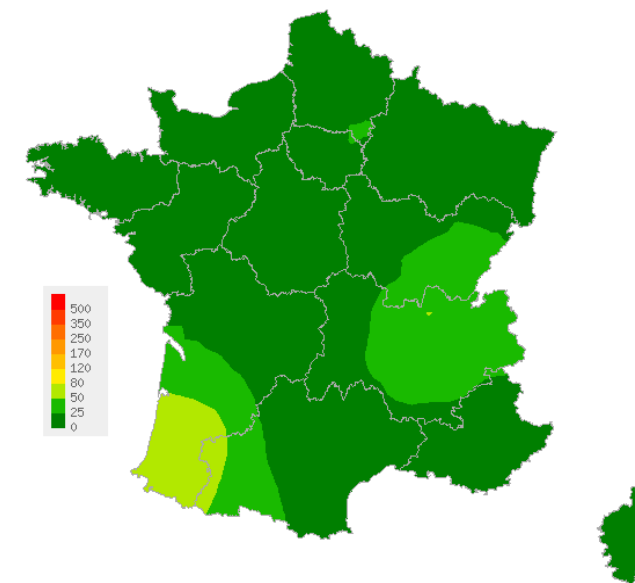


Map of spatial data interpolation based on incidence rates at the « département » (NUTS 3) level, (per 100 000 inhabitants), Chickenpox, Sentinelles general practitioners, 2016w41
[Maps available at http://www.sentiweb.fr](http://www.sentiweb.fr)

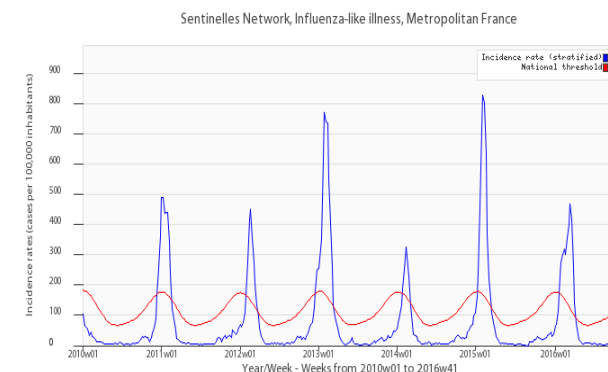


Incidence rate in blue,
(per 100 000 inhabitants), Chickenpox, Sentinelles general practitioners

INFLUENZA-LIKE ILLNESS



Map of spatial data interpolation based on incidence rates at the « département » (NUTS 3) level, (per 100 000 inhabitants), Influenza-like illness, Sentinelles general practitioners, 2016w41
[Maps available at http://www.sentiweb.fr](http://www.sentiweb.fr)



Incidence rate in blue,
epidemic threshold in red calculated by a periodic regression model [1]
(per 100 000 inhabitants), Influenza-like illness, Sentinelles general practitioners

National incidence rates (per 100 000 inhabitants) over the past 3 weeks	2016w41 (non consolidated)	2016w40	2016w39
	Incidence rate estimation [95% confidence interval]	Incidence rate estimation [95% confidence interval]	Incidence rate estimation [95% confidence interval]
INFLUENZA-LIKE ILLNESS	16 [9 ; 23]	20 [13 ; 27]	16 [10 ; 22]
ACUTE DIARRHEA	155 [133 ; 177]	148 [131 ; 165]	122 [107 ; 137]
CHICKENPOX	10 [4 ; 16]	8 [3 ; 13]	4 [1 ; 7]

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

Regional incidence rates for week 2016w41 (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]
Auvergne-Rhône-Alpes	37 [14 ; 60]	111 [72 ; 150]	4 [0 ; 10]
Bourgogne-Franche-Comté	22 [0 ; 56]	66 [13 ; 119]	0 [0 ; 0]
Bretagne	0 [0 ; 0]	86 [0 ; 187]	0 [0 ; 0]
Centre-Val de Loire	13 [0 ; 29]	150 [88 ; 212]	4 [0 ; 11]
Corse	23 [0 ; 65]	69 [0 ; 141]	0 [0 ; 0]
Grand Est	13 [0 ; 30]	297 [180 ; 414]	43 [0 ; 90]
Hauts-de-France	15 [0 ; 36]	168 [98 ; 238]	2 [0 ; 9]
Ile-de-France	13 [0 ; 28]	213 [127 ; 299]	3 [0 ; 8]
Normandie	6 [0 ; 20]	61 [21 ; 101]	0 [0 ; 0]
Nouvelle-Aquitaine	20 [0 ; 49]	84 [16 ; 152]	19 [0 ; 64]
Occitanie	1 [0 ; 9]	123 [58 ; 188]	2 [0 ; 6]
Pays de la Loire	0 [0 ; 0]	211 [84 ; 338]	0 [0 ; 0]
Provence-Alpes-Côte d'Azur	5 [0 ; 17]	106 [34 ; 178]	21 [0 ; 63]

Table 2 : Incidence rates* estimation with 95% confidence interval, for each indicator, for each French region, for week 2016w41.

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*The " Réseau Sentinelles" or Sentinelles Network
(a.k.a. French Communicable Diseases Computer Network)
is a network of 1391 physicians working throughout the metropolitan regions
of France including 550 involved in the clinical surveillance activity
(437 general practitioners and 113 pediatricians)
enabling the achievement of weekly newsletters.
This network is developed in cooperation between Inserm, Université Pierre
et Marie Curie (UPMC) and the Agence Santé publique France.*

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Ile-de-France	Mathilde François	Cécile Pino
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* Incidence rates estimate are calculated on the activity of general practitioners.