

IN THIS ISSUE:

- ILI incidence and Pg. 1 trends
- Estimated cases of ILI Pg. 2 in Italy and A/H1N1v related deaths
- Emergency room Pg. 3 admission trends
- Drug purchase trends Pg. 4

FLUNEWS

TALY

Influenza Like Illness (ILI) sentinel surveillance: (http://www.iss.it/iflu/)

Completeness of reporting in the current epiweek was

The incidence of ILI, as detected through sentinel

surveillance, was 1.90 cases per 1,000 served popula-

tion. In the age group 0-4 years the incidence was

6.22‰. Among patients aged 5-14 years the incidence

was 3.08‰, among those aged 15-64 years it was

1.51‰, while the incidence among patients 65 years or more, was 0.75‰. After having peaked in epiweek 46

(incidence 12.9‰), the ILI epicurve has declined and

InfluNet

then stabilized.

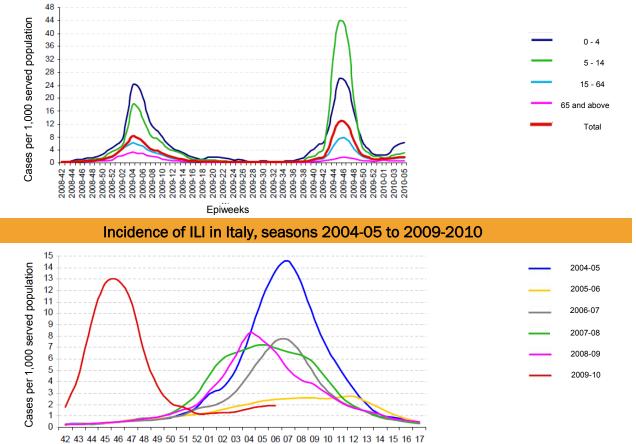
95% (20/21 regions reporting).

Reporting period Epiweek 5 (1 - 7 February 2010)

HIGHLIGHTS:

- ⇒The epidemic curve for ILI cases in Italy is stable.
 - ⇒No deaths due to A/H1N1v occurred in epiweek 5.
 - ⇒Emergency room admissions for ARS are stable and not breaching alarm/alert thresholds.
 - ⇒Purchase of pain killers, antibiotics and antivirals is increasing compared with the previous epiweek.

Incidence of ILI by age group, seasons 2008-09 and 2009-10





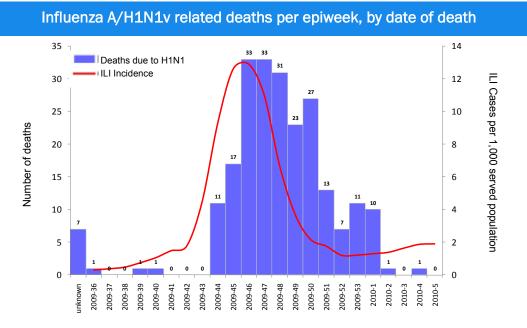
ILI surveillance methodology:

The Italian surveillance system for influenza is based on a network of sentinel community based physicians in the 21 regions and autonomous provinces of the country. Incidence rates are therefore not based on consultations but on the served population of each reporting physician each week. Incidence data per 1,000 patients is provided globally and by age group. For more information on the Influent surveillance system consult the website http://www.iss.it/iflu/ (in Italian).

This bulletin is a translation of FluNews, the official report combining the information of all the epidemiological surveillance systems monitoring the influenza pandemic in Italy. The original version in Italian is produced by the National Centre of Epidemiology (CNESPS) of the Italian National Institute of Health (http://www.epicentro.iss.it/focus/h1n1/archivioflunews.asp)

Epiweeks

Estimated cases of ILI and Influenza A/H1N1v related deaths



Estimated cases of ILI in Italy

Epiweeks	Estimated cases
43/2009	269,000
44/2009	557,000
45/2009	756,000
46/2009	774,000
47/2009	661,000
48/2009	400,000
49/2009	222,000
50/2009	130,000
51/2009	106,000
52/2009	72,000
53/2009	73,000
1/2010	78,000
2/2010	83,000
3/2010	98,000
4/2010	112,000
5/2010	114,000
Total	4,505,000
Data is constantly undated as reporting complete.	

Data is constantly updated as reporting completeness increases. Therefore figures for previous epiweeks will vary among FluNews bulletins, with the latest being the most reliable.

Epiweeks Surveillance of A/H1N1v mortality:

In epiweek 5 of 2010, no deaths due to influenza A/H1N1 occurred.

41% of all deaths that occurred since the beginning of the pandemic were among women.

The most affected age groups were the 15-44 yrs and the 45-64 yrs (33% and 34% respectively).

The most affected Italian region was Campania where 23% of all A/H1N1v deaths have occurred, followed by Puglia (15%), and Piemonte (10%).

81% of the people who died had one or more pre-existing risk factors.

P

Mortality Data:

Since the 19th of November 2009, a special surveillance for hospitalized and severe cases as well as fatalities due to Influenza A/H1N1v was activated in Italy. Each region compiles online individual case forms as severe cases and deaths occur and aggregate data weekly. Retrospective data was collected to include the entire duration of the pandemic.

This bulletin is a translation of FluNews, the official report combining the information of all the epidemiological surveillance systems monitoring the influenza pandemic in Italy. The original version in Italian is produced by the National Centre of Epidemiology (CNESPS) of the Italian National Institute of Health (http://www.epicentro.iss.it/focus/h1n1/archivioflunews.asp)

With the decrease in ILI incidence the number of deaths has also decreased. In Epiweek 5 of 2010, no deaths occurred. 228 people have died due to influenza A/H1N1v in Italy since the beginning of the pandemic.

Emergency room admission trends

Admission to Emergency Rooms (ERs) for acute respiratory syndromes (ARS) sentinel surveillance

Completeness of reporting in epiweek 5 of 2010 was 100% (14/14 regions presently reporting). See the methods box below for further details.

In the 5th epiweek, 6% of all people who accessed the sentinel ERs were diagnosed with acute respiratory syndrome, 24.3% of those were admitted to hospital.

Compared with the previous epiweek, the number of ER admissions is stable. No epidemic threshold was breached both globally and by age group. Compared with the previous reporting period, the proportion of ER admissions for ARS is stable (from 6.1% to 6.0%).



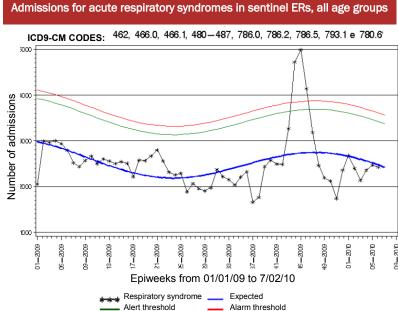
ER admission surveillance methodology: A surveillance

network was established among Italian emergency services that had an automatic recording system for admissions with immediate regional updates as of August 2009. 16 of the 21 Italian regions adhered (76.2%). Of these, 14 identified at least one emergency service that would send data for surveillance and constitute to date the reporting units of the system.

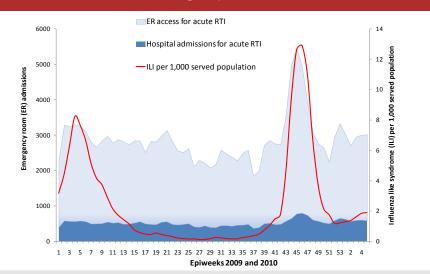
The surveillance system is based on the weekly transmission of the total number of ER admission to the regional health institutions. They select those whose main diagnosis is coded as an acute respiratory syndrome based on the ICD9-CM coding system. One year historical data, when available, was received by the adhering regions and the estimated number of weekly admission, alert and alarm epidemic thresholds were calculated using a time series model (cyclic regression analysis) that takes into account the seasonality of the disease. Each week the actual number of admissions is compared with the estimated one and anv threshold breach documented.

The system is influenced by the different ways of accessing emergency services in the country. However it captures in a timely fashion the increase in admissions for acute respiratory syndromes that is an indirect indicator of increased activity of influenza viruses.

LIMITS:



ILI incidence and emergency admissions for acute RTIs



This bulletin is a translation of FluNews, the official report combining the information of all the epidemiological surveillance systems monitoring the influenza pandemic in Italy. The original version in Italian is produced by the National Centre of Epidemiology (CNESPS) of the Italian National Institute of Health (http://www.epicentro.iss.it/focus/h1n1/archivioflunews.asp)

3

Drug purchase trends

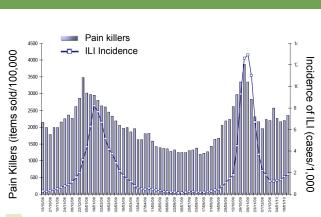
Drug purchase trends on a representative sample of 2,500 pharmacies (epiweek 4)

Drug purchase data is always reported one week after the current epiweek, therefore all comparisons with the ILI surveillance data reflect the epiweek before the reporting period of this bulletin.

Between the 25th and the 31st of January, the purchase of both antibiotics and pain killers had a 19% and 16% decrease compared with the same period last year, respectively. When compared with the previous epiweek, purchase is slightly increasing (+5% for antibiotics and +7% for pain killers).

Antiviral purchase was 1.6 items/100,000 inhabitants (a 77% increase compared with the previous epiweek). The regional situation is extremely diverse with some regions increasing purchase (for example Umbria reported a 2500% increase in the last epiweek) and others decreasing (in Toscana purchase decreased by 80%).

Weekly trends in the purchase of painkillers and antivirals



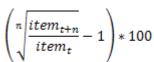
O00'00L/Dick supply supply supply a set of LLI (cases/1,000)



Drug purchase monitoring methodology:

Drug purchase data is always reported one week later that the surveillance week. Data reports the drugs classified by the Italian system as class A (reimbursable by the Italian MoH), class C (non-reimbursable) and self medication drugs purchased from a representative sample of 2,500 public and private pharmacies in Italy. Regional purchases for each drug item by ATC code is estimated based on these observations. For surveillance purposes, the drugs monitored are antibiotics (ATC J01), pain killers (ATC N02B), and antivirals (ATC J05AH). Analysis calculates items sold per 100,000 inhabitants, this indicator calculates the intensity of use of a specific class of drugs. Denominators are based on population estimates as of January 2009 (source ISTAT).

The trend in drug consumption is based on the Compound Annual Growth Rate: where n is the number of months in the reporting period, itemt+n and itemt the number of items/100,000 inhabitants purchased in the first and last month. Analysis is conducted by the drug epidemiology department of the Italian National Institute of Health (Iss-Cnesps) on OsMed data.





Acknowledgements

The production of this bulletin has been possible thanks to the contribution of Italian Regions and Autonomous Provinces which provided the data and the scientific and technical expertise of the researchers of the National Centre of Epidemiology (Antonino Bella, Roberto Da Cas, Silvia Declich, Caterina Rizzo, Maria Cristina Rota) of the Italian National Institute of Health. English adaptation and graphics by: Flavia Riccardo. Original FluNews in Italian edited by the editorial board of EpiCentro (the Italian web-based epidemiological platform for public health officers) http://www.epicentro.iss.it.

This bulletin is a translation of FluNews, the official report combining the information of all the epidemiological surveillance systems monitoring the influenza pandemic in Italy. The original version in Italian is produced by the National Centre of Epidemiology (CNESPS) of the Italian National Institute of Health (http://www.epicentro.iss.it/focus/h1n1/archivioflunews.asp)