

### HIGHLIGHTS:

- ILI incidence in Italy has decreased.
- No threshold breach in emergency room admission trends was detected.
- In the current epiweek, no deaths due to A/H1N1v occurred.

### Influenza Like Illness (ILI) sentinel surveillance

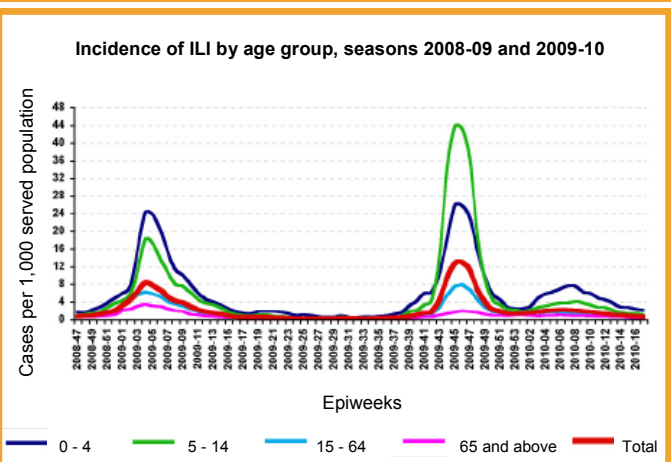
Completeness of reporting in the current epiweek was 95% (20/21 regions reporting).

The **incidence of ILI**, as detected through sentinel surveillance, was 0.58 cases per 1,000 served population. In the age group 0-4 years the incidence was 2.04‰. Among patients aged 5-14 years the incidence was 1.08‰.

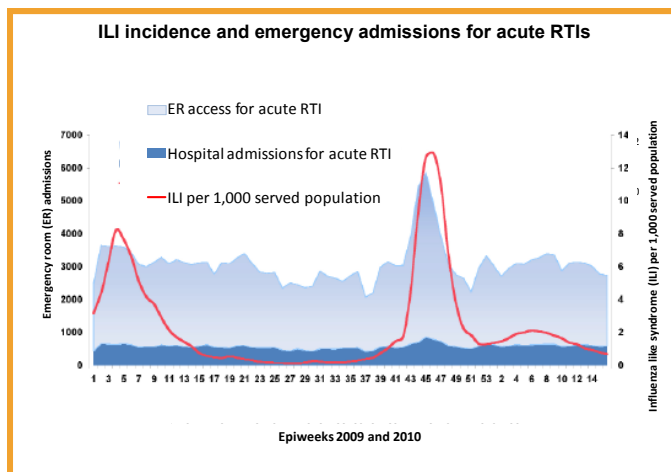
In Italy, estimated 5,540,000 people have contracted an ILI since the 43rd epiweek of 2009. The number of **estimated ILI cases** in the reporting period was 35,000.



<http://www.iss.it/iflu/>



### Emergency room admission trends for acute respiratory syndromes (ARS)



Completeness of reporting in epiweek 17 of 2010 was 100% (14/14 regions presently reporting). See the methods box below for further details.

In the 17th epiweek, 5.2% of all people who accessed the sentinel ERs were diagnosed with acute respiratory infection, 27.5% 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.



#### ILI surveillance methodology:

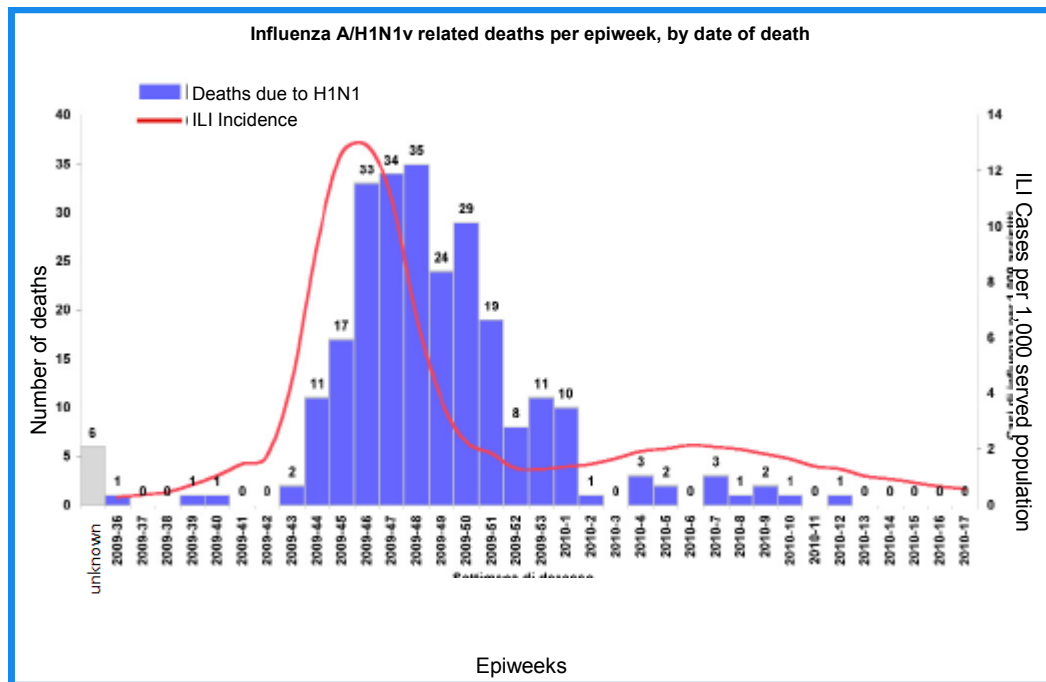
The Italian surveillance system for influenza is based on a network of sentinel community based physicians in the 21 regions and autonomous provinces of the country. Incidence rates are therefore not based on consultations but on the served population of each reporting physician each week. Incidence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

#### 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 any threshold breach documented.

## Surveillance of A/H1N1v mortality



In epiweek 17 of 2010, no deaths due to influenza A/H1N1 occurred. 256 people have died due to influenza A/H1N1v in Italy since the beginning of the pandemic.

41.4% 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 (32.8% and 33.2% respectively).

The most affected Italian region was Campania where 20.3% of all A/H1N1v deaths have occurred, followed by Puglia (14.1%), and Piemonte and Lazio (10.2% each). 78.1% of the people who died had one or more pre-existing risk factors.



### 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.



### 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>.*