



### Summary : Week 47 (Nov. 17–Nov. 23, 2013)

Influenza activity was low in Taiwan during week 47. Seasonal influenza virus type A (H3N2) is predominant in the community.

- Of the 109 specimens tested during week 45, 2013, 5 (4.6%) were positive for influenza viruses, 3 (2.8%) were positive for influenza A (H3N2) virus, 1 (0.9%) was positive for influenza A (H1N1) virus, and 1 (0.9%) was positive for influenza B virus.
- During week 47, 2013, there were 5 new cases of complicated influenza, including 4 cases with influenza A (H3N2) virus infection and 1 case with influenza A (H1N1) virus infection. Since July 1, 2013, 170 cases of complicated influenza infection have been confirmed, including 133 cases from influenza A (H3N2) virus infection, 36 cases from influenza A (H1N1) virus infection, and 1 case from influenza B virus infection. 50 cases of complicated influenza infection received the intensive care. Since July 1, 2013, there have been 13 reports of death from complicated influenza infection; 10 cases from influenza A (H3N2) virus infection and 3 cases from influenza A (H1N1) virus infection respectively.
- During week 46, 2013, the number of deaths related to pneumonia and influenza was 257, which was below the number of the previous week (267 deaths).
- The proportion of outpatient visits for influenza-like illness was 1.09%, a 7.9% increase compared with the proportion of previous week (1.01%).
- The proportion of emergency room visits for ILI was 9.17%, a 6.6% increase compared with the proportion of previous week (8.60%).

### Virologic surveillance

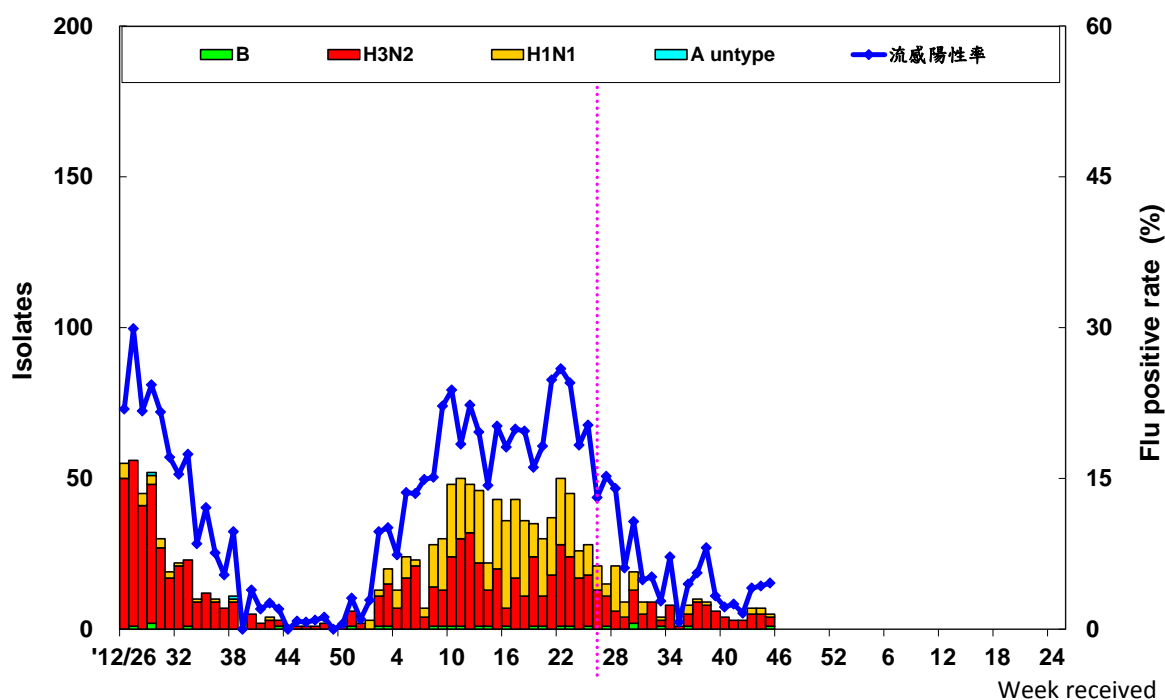
During week 45, 2013, the results of tests performed summarized in the table below.

	Data for week 45	Cumulative data since 7/1/2013
Number of specimens tested	109	3070
Number of positive specimens (%)	5(4.6)	178(5.8)
Positive specimens by type/subtype (%)		
Influenza A (% of all positive specimens)	4(80)	172(97)
A (H1N1) (% of all Influenza A)	1(25)	53(31)
A (H3N2)	3(75)	119(69)
A (unable to subtype)	0(0)	0(0)
A (subtyping not performed)	0(0)	0(0)
Influenza B	1(20)	6(3)



**Antigenic characterization:** Taiwan CDC has antigenically characterized 18 human influenza viruses [3 influenza A (H1N1) viruses, 15 influenza A (H3N2) viruses] since October 1, 2013. 100% (n=3) influenza A (H1N1) viruses tested were related to the A (H1N1) component of the 2013-14 influenza vaccine (A/California/7/2009(H1N1)pdm09). 93% (n=14) of the influenza A (H3N2) viruses tested were related to the A (H3N2) component of the 2013-14 influenza vaccine (A/Victoria/361/2011(H3N2)).

### Influenza positive tests reported to Taiwan CDC by contracted laboratories, 2012–2014



**Antiviral resistance:** Since October 1, 2013, the antiviral resistance testing to the neuraminidase inhibitors (oseltamivir) of human Influenza viruses has not been completed yet.

	Isolates tested (n)	Resistance Viruses, n (%)
		Oseltamivir
Influenza A (H1N1)	0	0
Influenza A (H3N2)	0	0
Influenza B	0	0



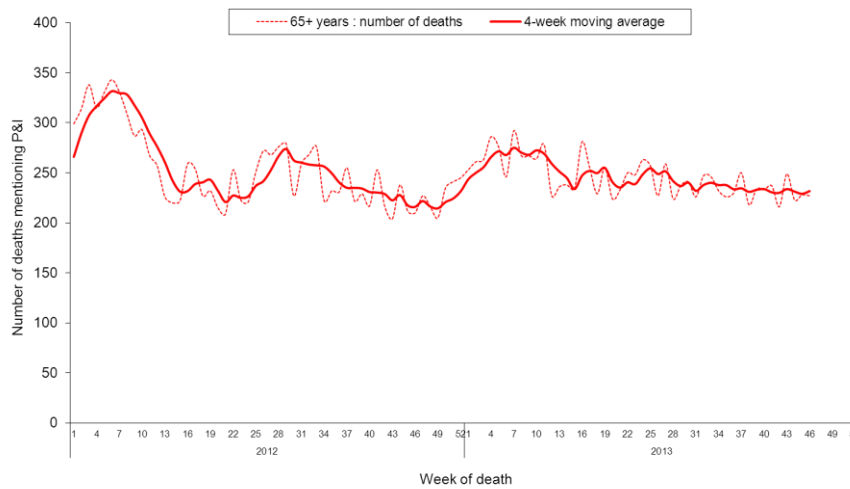
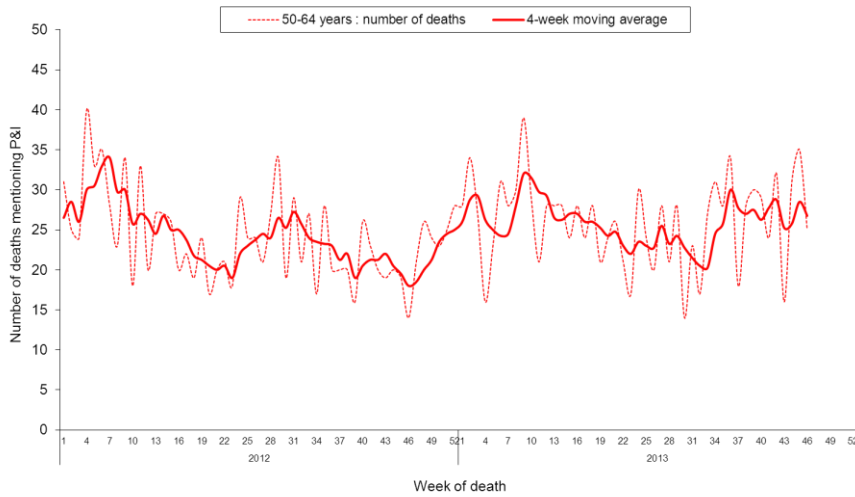
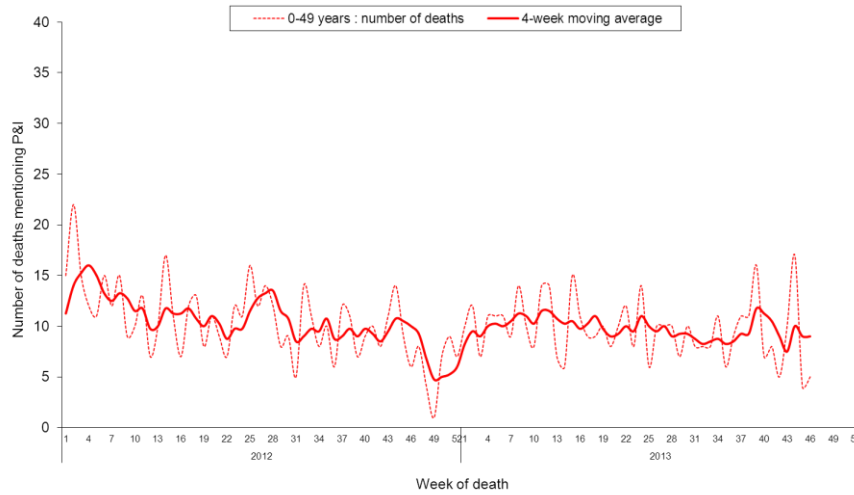
## Pneumonia and influenza (P&I) mortality surveillance

During week 46, 2013, 257 deaths reported through the National Death Certificate System mentioned P&I as the cause of death. This number was below the number of previous week (267 deaths). The number of deaths related to P&I for adults of 65 or greater is the highest among the three age groups (0–49, 50–64, and 65+).

### National pneumonia and influenza mortality Week ending at November 16, 2013



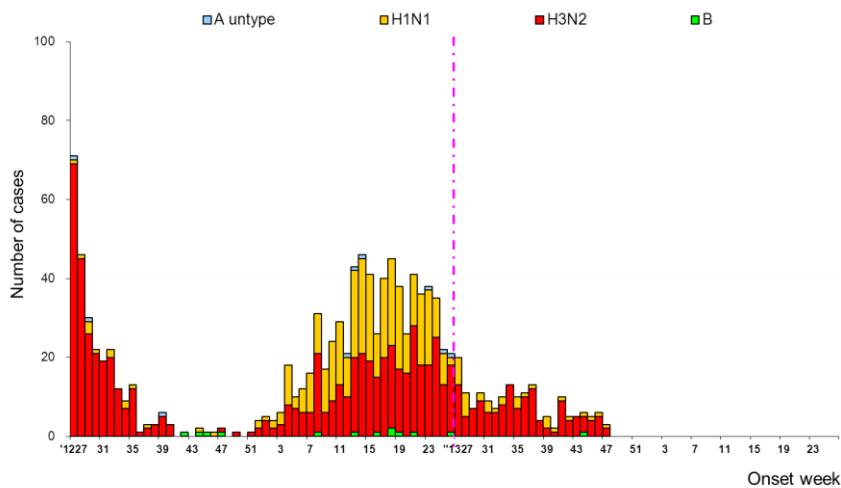
## National pneumonia and influenza mortality by age group Week ending at November 16, 2013



## Reports of complicated influenza\*

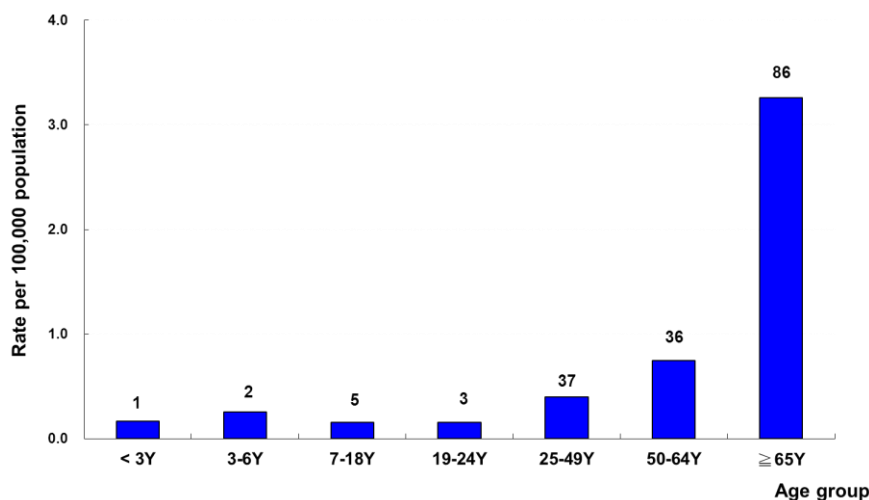
During week 47, 2013, there were 5 new cases of complicated influenza, including 4 cases with influenza A (H3N2) virus infection and 1 case with influenza A (H1N1) virus infection. Since July 1, 2013, 170 cases of complicated influenza infection have been confirmed, including 133 cases from influenza A (H3N2) virus infection, 36 cases from influenza A (H1N1) virus infection, and 1 case from influenza B virus infection. 50 cases of complicated influenza infection received the intensive care. Since July 1, 2013, there have been 13 reports of death from complicated influenza infection; 10 cases from influenza A (H3N2) virus infection and 3 cases from influenza A (H1N1) virus infection respectively.

### Number of complicated influenza reports by week of onset July 1, 2012 to present



\*Defined as influenza infection with pulmonary complication, neurologic complication, myocarditis, pericarditis, invasive bacterial infection requiring hospitalization, intensive care or resulting in deaths.

### Rate of complicated influenza reports by age groups July 1, 2013 to present



\*Numbers represent number of complicated influenza reports for that specific age stratum.



## Outpatient and emergency room influenza-like illness surveillance

Nationwide during week 47, 2013, 1.09% of outpatient visits reported through the National Health Insurance Database were due to influenza-like illness (ILI), a 7.9% increase compared with the proportion of previous week (1.01%).

The proportion of emergency room visits for ILI was 9.17%, a 6.6% increase compared with the proportion of previous week (8.60%).

### Proportions of outpatient and emergency room (ER) visits for influenza-like illness (July 1, 2012 to present)

