



## Summary : Week 48 (Nov. 25– Dec. 1, 2012)

Influenza activity was low in Taiwan during week 48. The influenza strains which have been tested match the 2012–13 influenza vaccine components.

- Of the 138 specimens tested during week 46, 2012, only 1 (0.7%) specimen was influenza virus positive, which was positive for influenza AH3 virus.
- During week 48, 2012, there were two new cases of complicated influenza, including one case with influenza AH3 virus infection and the other one with influenza B virus infection. Since July 1, 2012, 267 cases of complicated influenza infection have been confirmed, including 246 cases from influenza AH3 (H3N2) virus infection, 14 cases from pandemic (H1N1) 2009 virus infection, 3 cases due to un-typed influenza A virus infection, and 4 cases from influenza B virus infection. 76 cases of complicated influenza infection received the intensive care. Since July 1, 2012, there have been 25 reports of death from complicated influenza infection; 24 cases from the seasonal AH3 (H3N2) strain infection and 1 case from pandemic (H1N1) 2009 virus infection, respectively.
- The number of deaths related to pneumonia and influenza during week 47 was 247, which was above the number of the previous week (227 deaths).
- The rate of outpatient visits for influenza-like illness is 1.08%, which was comparable with the rate of previous week (1.08%).
- The rate of emergency room visits for ILI is 8.10%, a 1.9% decrease compared with the rate of previous week (8.26%).

## Virologic surveillance

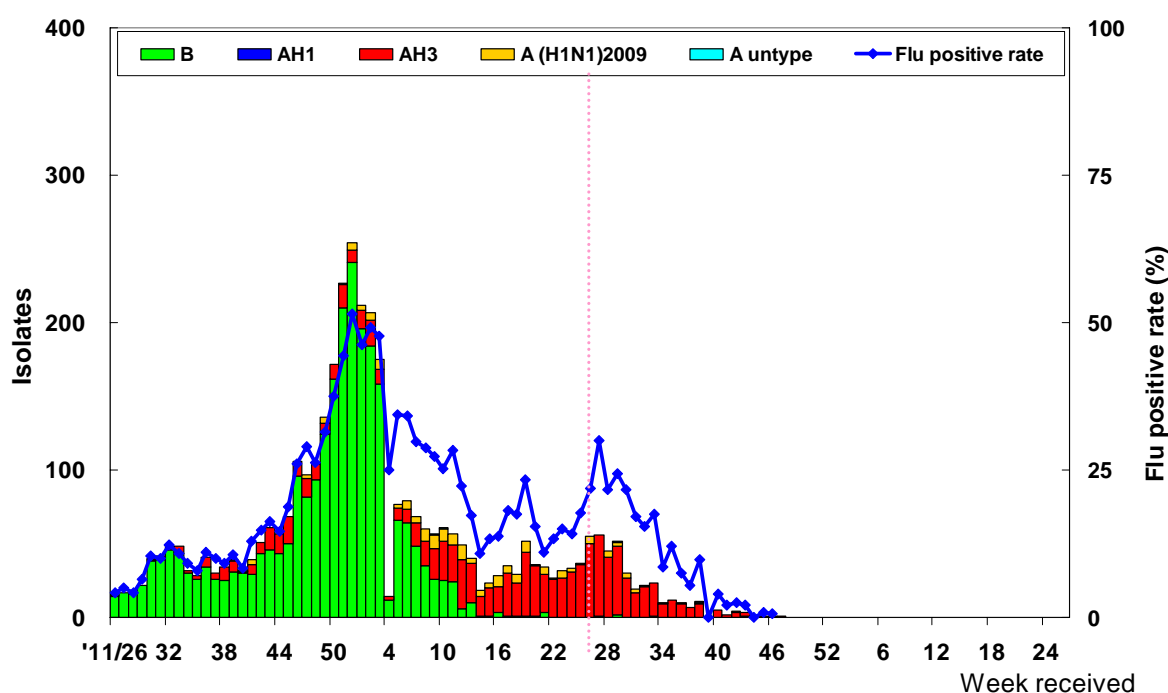
The results of tests performed during week 46 are summarized in the table below.

	Data for week 46	Cumulative data since 7/1/2012
Number of specimens tested	138	2790
Number of positive specimens (%)	1(0.7)	314(11)
Positive specimens by type/subtype (%)		
Influenza A (% of all positive specimens)	1(100)	309(98)
A (pandemic [H1N1] 2009) (% of all Influenza A)	0(0)	17(6)
A (H3)	1(100)	290(94)
A (H1)	0(0)	0(0)
A (unable to subtype)	0(0)	2(<1)
A (subtyping not performed)	0(0)	0(0)
Influenza B	0(0)	5(2)



**Antigenic characterization:** Taiwan CDC has antigenically characterized 8 human influenza viruses [1 pandemic (H1N1) 2009, 5 influenza A (H3), and 2 influenza B] since October 1, 2012. All of the 5 influenza A (H3) viruses tested were related to the A(H3N2) component of the 2012-13 influenza vaccine (A/Victoria/361/2011(H3N2)); one pandemic (H1N1) 2009 virus tested was related to the A(H1N1)pdm09 component of the 2012-13 influenza vaccine (A/California/7/2009(H1N1)pdm09); both of the 2 influenza B viruses tested were belonged to the B/Yamagata lineage and were related to the B component of the 2012-13 influenza vaccine (B/Wisconsin/1/2010).

### Influenza positive tests reported to Taiwan CDC by contracted laboratories, 2011–2013



**Antiviral resistance:** Since October 1, 2012, 5 pandemic (H1N1) 2009, 27 influenza A (H3N2) and 1 influenza B viruses have been tested for resistance to the neuraminidase inhibitors (oseltamivir). The results of antiviral resistance testing performed on these viruses are summarized in the table below.

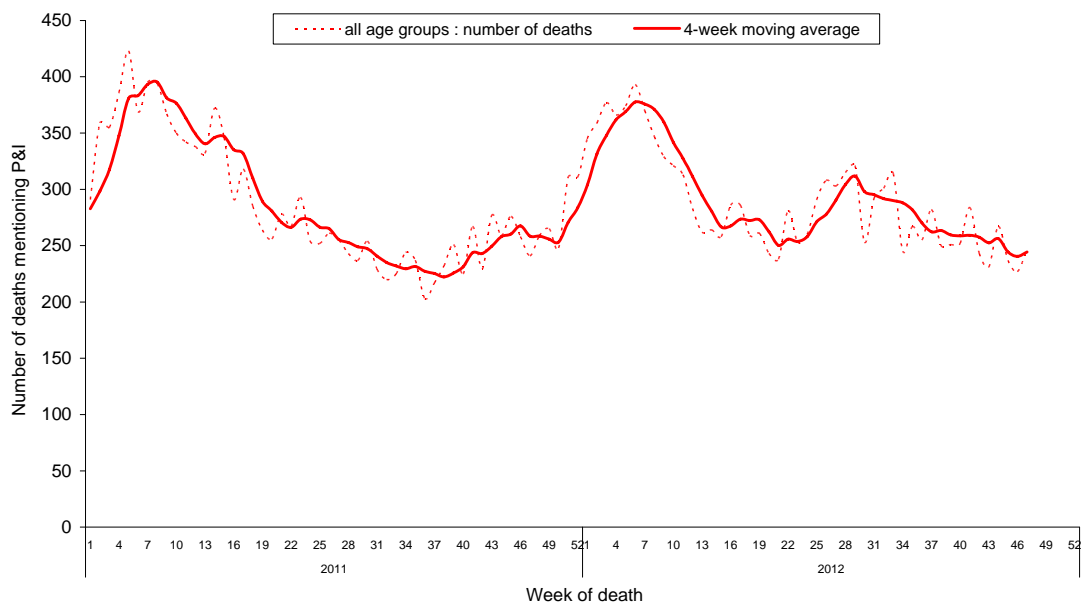
	Isolates tested (n)	Resistance Viruses, n (%)
		Oseltamivir
A (pandemic [H1N1] 2009)	5	0 (0)
A (H3)	27	0 (0)
B	1	0 (0)



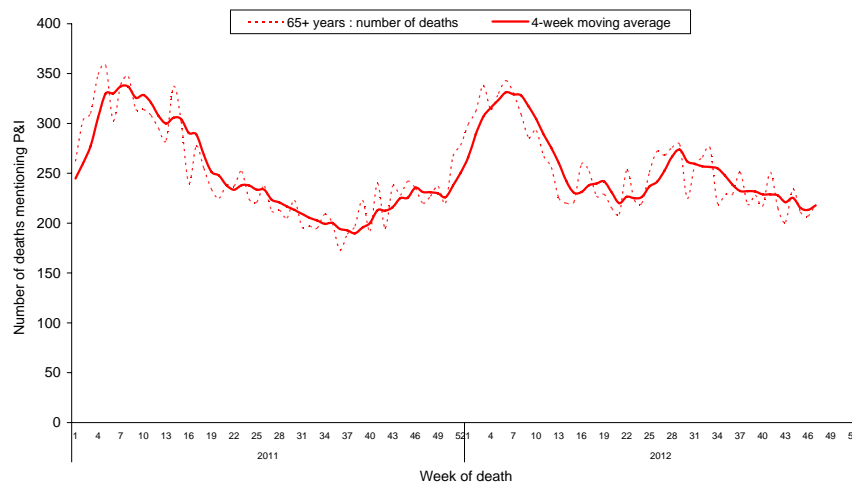
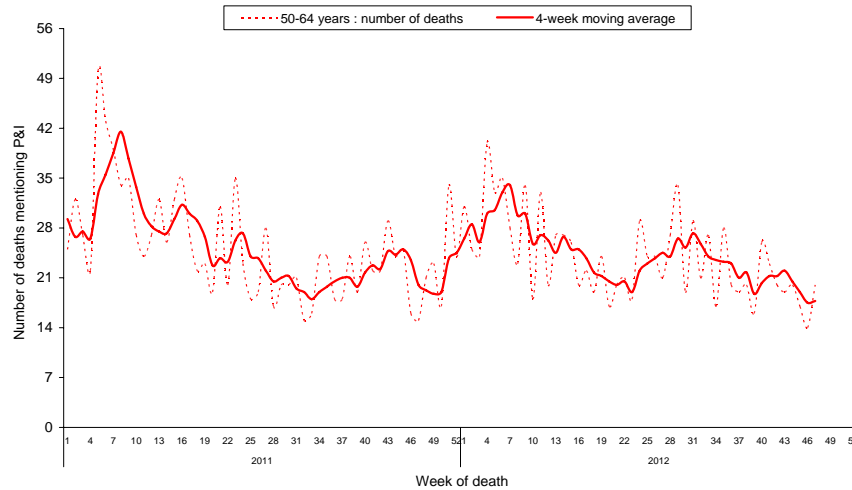
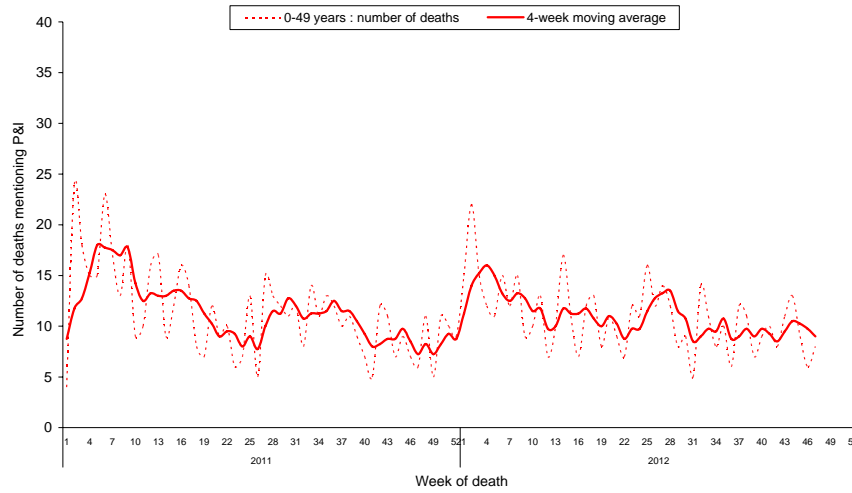
## Pneumonia and influenza (P&I) mortality surveillance

During week 47, 2012, 247 deaths reported through the National Death Certificate System mentioned P&I as the cause of death. This number was above the number of previous week (227 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<sup>+</sup>).

### National pneumonia and influenza mortality Week ending November 24, 2012



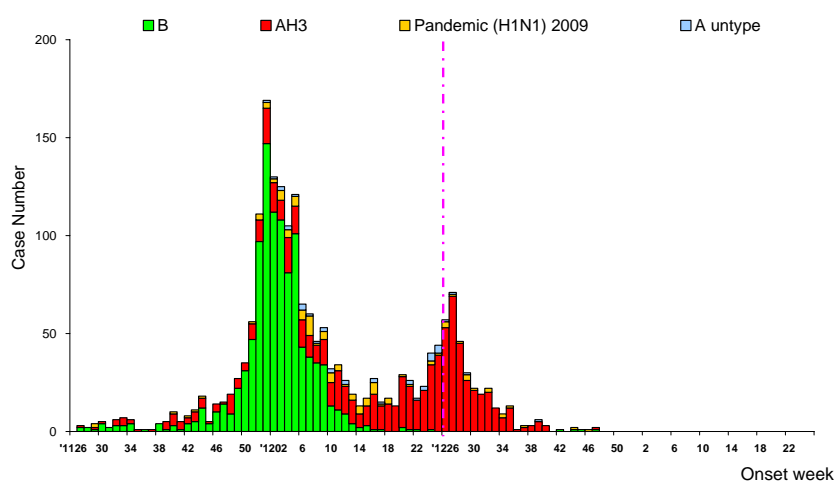
## National pneumonia and influenza mortality by age group Week ending November 24, 2012



## Reports of complicated influenza\*

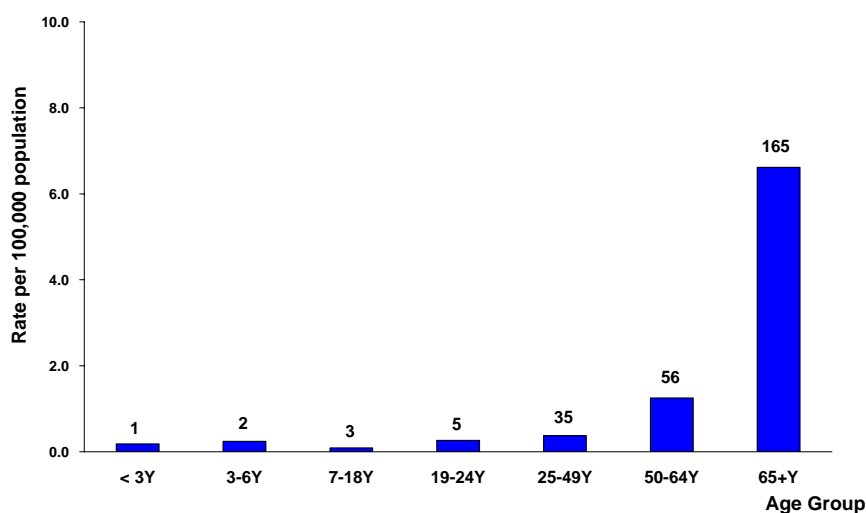
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### Number of complicated influenza reports by week of onset June 26, 2011 to present



\*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, 2012 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 48, 1.08% of outpatient visits reported through the National Health Insurance Database were due to influenza-like illness (ILI), which was comparable with the rate of previous week (1.08%).

The rate of emergency room visits for ILI is 8.10%, a 1.9% decrease compared with the rate of previous week (8.26%).

### Rate of outpatient and emergency room (ER) visits for influenza-like illness

June 26, 2011 to present

