

FLU EXPRESS



Flu Express is a weekly report produced by the Respiratory Disease Office of the Centre for Health Protection. It monitors and summarizes the latest local and global influenza activities.

Local Situation of Influenza Activity (as of Dec 16, 2015)

Reporting period: Dec 6 – 12, 2015 (Week 50)

- The overall influenza activity in the past week remained at a low level.
- Influenza can cause serious illnesses in high-risk individuals and even healthy persons. Given that seasonal influenza vaccines are safe and effective, all persons aged 6 months or above except those with known contraindications are recommended to receive influenza vaccine for personal protection.
- Eligible children (aged between six months and less than 6 years, or 6 years old or above attending a kindergarten or child care centre in Hong Kong), elderly (aged 65 years or above) and eligible persons with intellectual disabilities can be subsidised for seasonal influenza vaccination from enrolled private doctors participating in the Government's vaccination subsidy schemes starting from Oct 15, 2015. Elderly aged 65 or above living in the community can also receive free vaccination from General Out-patient Clinics under the Hospital Authority and designated Elderly Health Centres of the Department of Health since Nov 10, 2015. Details are available from the vaccination schemes website (http://www.chp.gov.hk/en/view_content/17980.html).

Influenza-like-illness surveillance among sentinel general outpatient clinics and sentinel private doctors, 2011-15

In week 50, the average consultation rate for influenza-like illness (ILI) among sentinel general outpatient clinics (GOPCs) was 5.1 ILI cases per 1,000 consultations, which was higher than 3.4 recorded in the previous week (Figure 1, left). The average consultation rate for ILI among sentinel private doctors was 45.8 ILI cases per 1,000 consultations, which was lower than 47.4 recorded in the previous week (Figure 1, right).

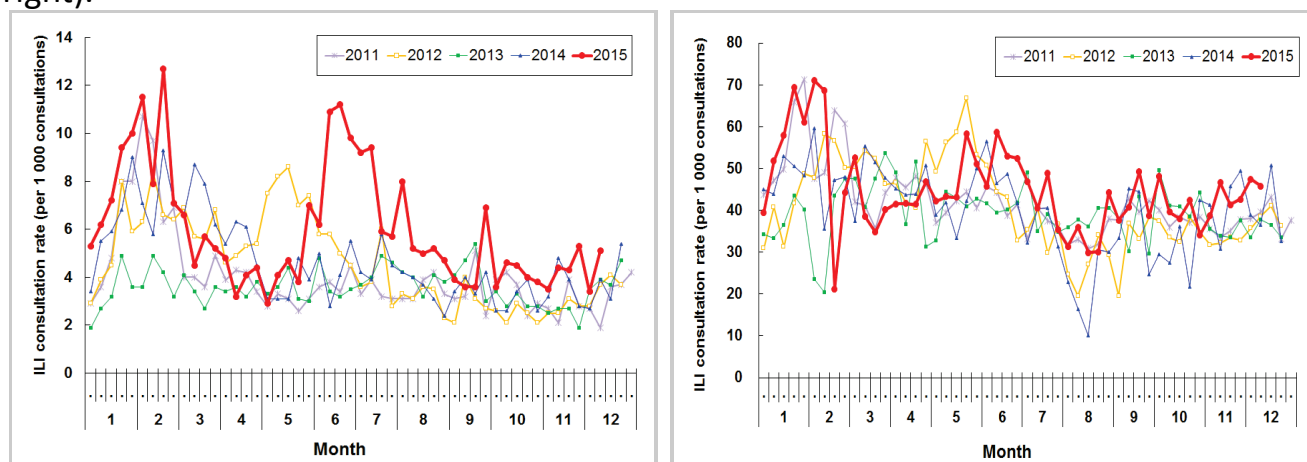


Figure 1 ILI consultation rate at sentinel GOPCs (left) and private doctors (right), 2011-15

Laboratory surveillance, 2011-15

Among the respiratory specimens received in week 50, 34 (1.18%) were tested positive for seasonal influenza viruses, including 4 (0.14%) influenza A(H1), 6 (0.21%) influenza A(H3), 10 (0.34%) influenza B and 14 (0.49%) influenza C. The percentage of respiratory specimens tested positive for seasonal influenza viruses last week was 1.18%, which was similar to 1.26% recorded in the previous week (Figure 2). Among the influenza viruses detected in the last week, the proportions of C, B, A(H3) and A(H1) were 41.2%, 29.4%, 17.7% and 11.8% respectively.

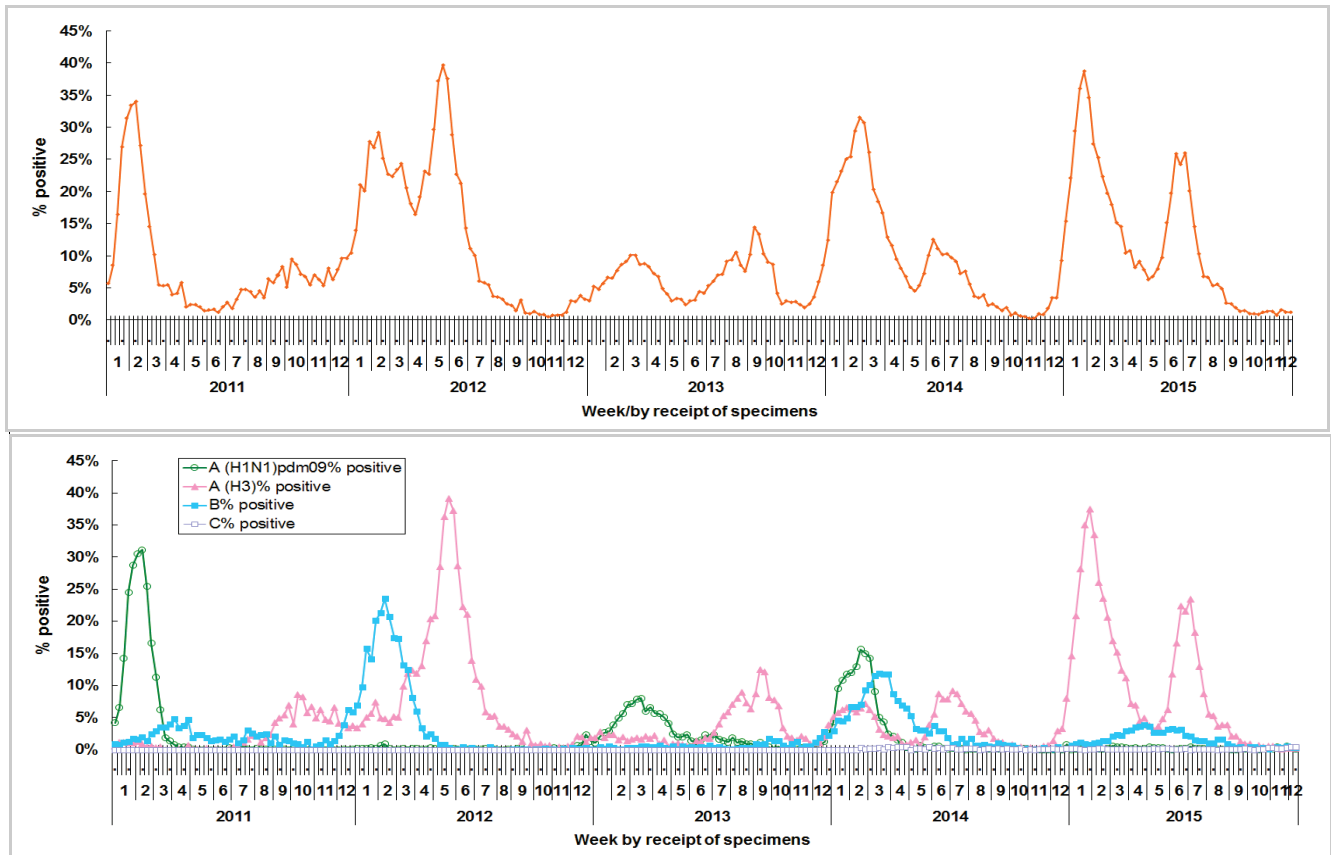


Figure 2 Percentage of respiratory specimens tested positive for influenza viruses, 2011-15 (upper: overall positive percentage, lower: positive percentage by subtypes)

Influenza-like illness outbreak surveillance, 2011-15

In week 50, 2 ILI outbreaks occurring in schools/ institutions were recorded (affecting 6 persons), as compared to 3 recorded (affecting 12 persons) in the previous week (Figure 3). In the first 4 days of week 51 (Dec 13 to 16, 2015), 4 institutional ILI outbreaks were recorded (affecting 13 persons).

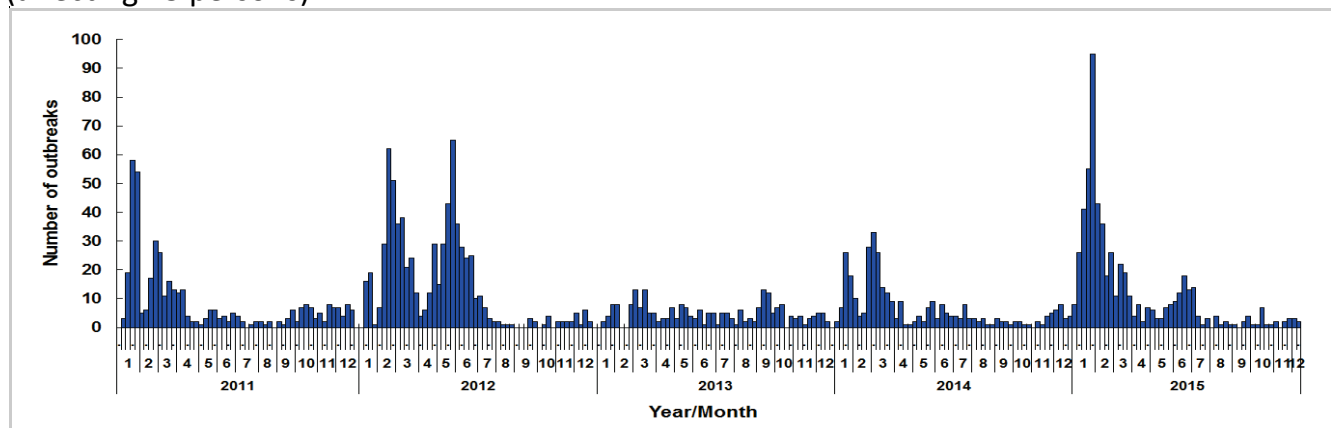


Figure 3 ILI outbreaks in schools/institutions, 2011-15

Rate of influenza-like illness syndrome group in accident and emergency departments, 2011-15#

In week 50, the rate of the influenza-like illness syndrome group in the accident and emergency departments (AED) was 149.0 (per 1,000 coded cases), which was lower than the rate of 152.9 in the previous week (Figure 4).

#Note: The influenza-like illness syndrome group includes codes such as influenza, upper respiratory tract infection, fever, cough, throat pain, and pneumonia.

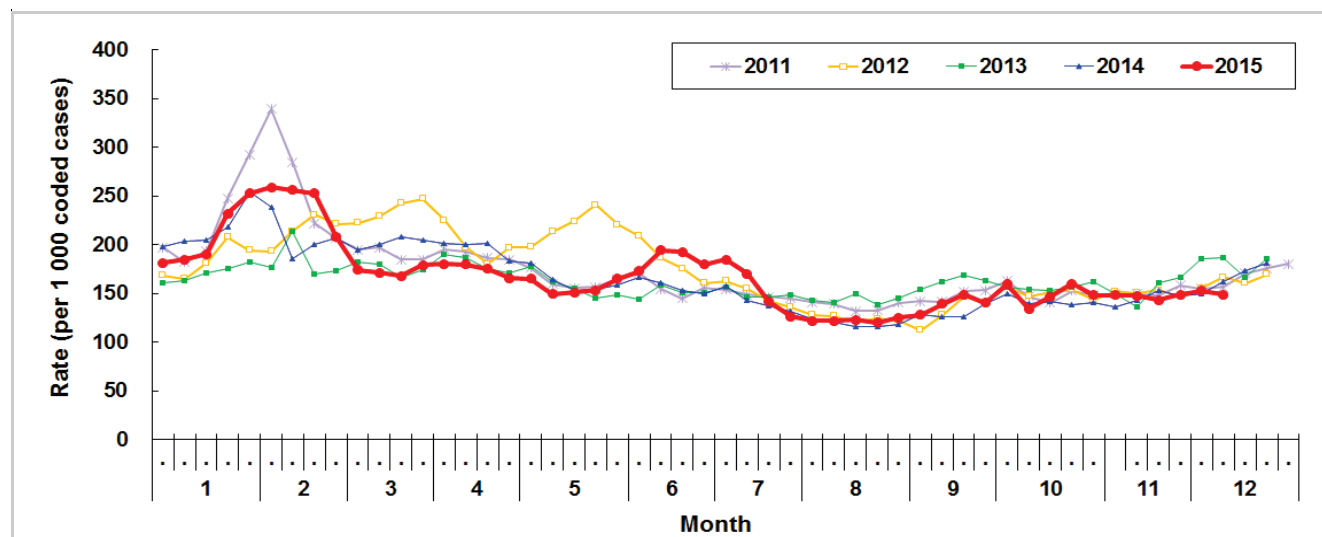


Figure 4 Rate of ILI syndrome group in AED, 2011-15

Influenza associated hospital admission rates and deaths in public hospitals based on discharge coding, 2011-15

In week 50, the admission rates in public hospitals with principal diagnosis of influenza for persons aged 0-4 years, 5-64 years and 65 years or above were 0.14, 0.009 and 0.02 cases (per 10,000 people in the age group) respectively, as compared to 0.04, 0.009 and 0.02 cases in the previous week (Figure 5). Weekly number of deaths with any diagnosis of influenza is also shown in Figure 5.

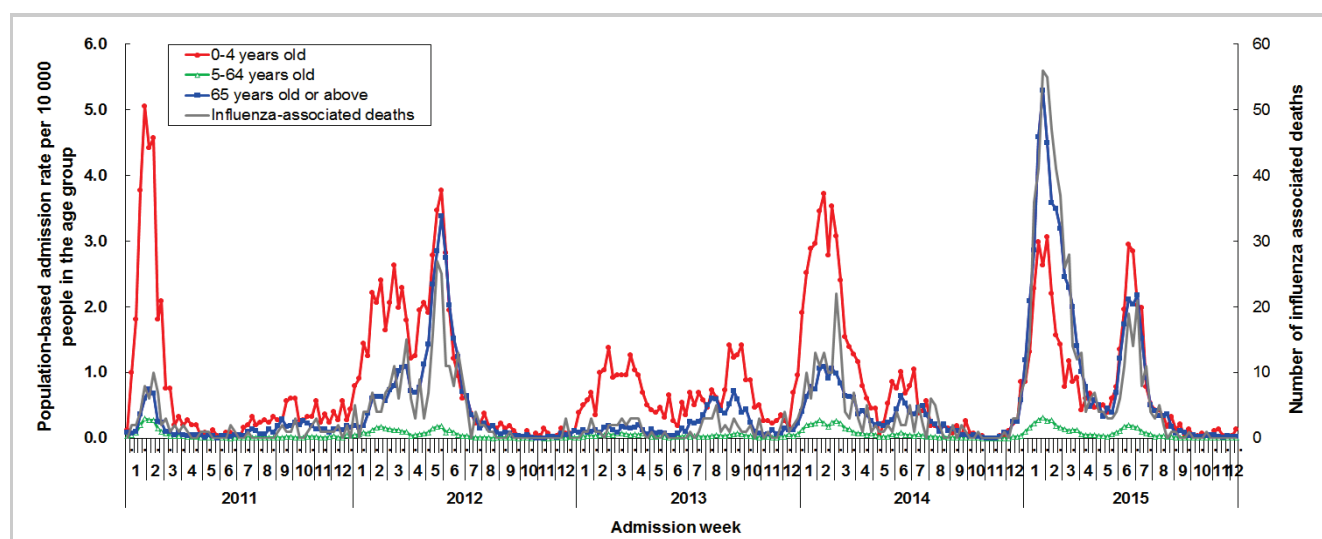


Figure 5 Influenza associated hospital admission rates and deaths, 2011-15

Fever surveillance at sentinel child care centres/ kindergartens, 2011-15

In week 50, 0.80% of children in the sentinel child care centres/ kindergartens (CCC/ KG) had fever (38°C or above), as compared to 0.96% in the previous week (Figure 6).

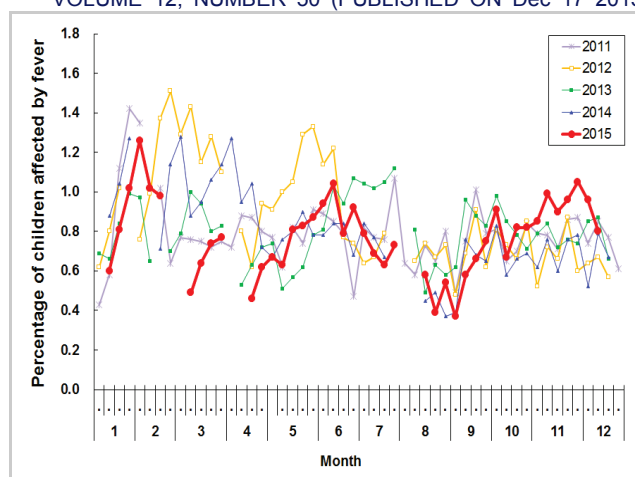


Figure 6 Percentage of children with fever at sentinel CCC/ KG, 2011-15

Fever surveillance at sentinel residential care homes for the elderly, 2011-15

In week 50, 0.10% of residents in the sentinel residential care homes for the elderly (RCHes) had fever (38°C or above), as compared to 0.09% in the previous week (Figure 7).

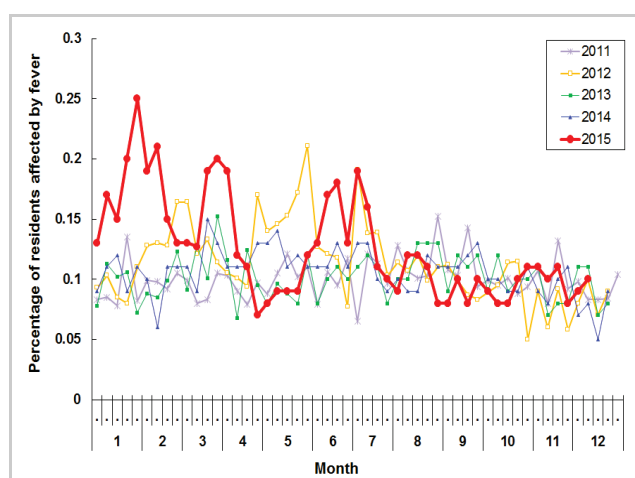


Figure 7 Percentage of residents with fever at sentinel RCHE, 2011-15

Influenza-like illness surveillance among sentinel Chinese medicine practitioners, 2011-15

In week 50, the average consultation rate for ILI among Chinese medicine practitioners (CMPs) was 1.88 ILI cases per 1,000 consultations as compared to 1.43 in the previous week (Figure 8).

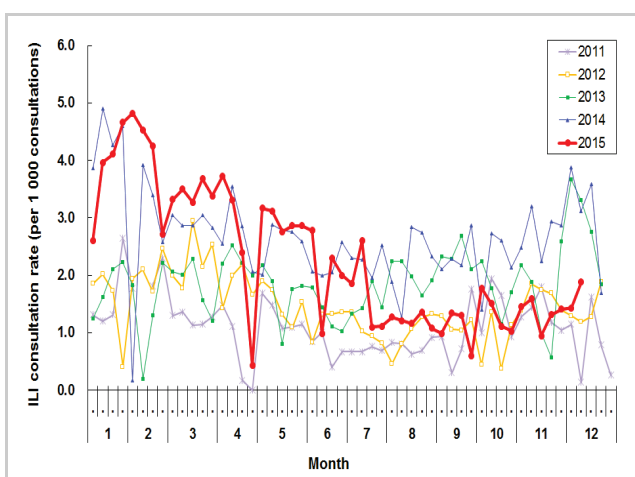


Figure 8 ILI consultation rate at sentinel CMP, 2011-15

Surveillance of severe paediatric influenza-associated complication/death (Aged below 18 years)

- In week 50 and the first 4 days of week 51, 2015 (Dec 13 to 16, 2015), there were no new reports of severe paediatric influenza-associated complication/death.

Note: The data reported are provisional figures and subject to further revision.

Surveillance of oseltamivir resistant influenza A(H1N1)pdm09 virus infection

- In week 50 and the first 4 days of week 51, 2015 (Dec 13 to 16, 2015), there were no new reports of oseltamivir (Tamiflu) resistant influenza A(H1N1)pdm09 virus infection. There are totally 47 reports of oseltamivir resistant influenza A(H1N1)pdm09 virus detected in Hong Kong since 2009.

Global Situation of Influenza Activity

- In the United States (week ending Dec 5, 2015), influenza activity increased slightly but remained low overall.
- In Canada (week ending Dec 5, 2015), the overall influenza activity in the past week remained low with sporadic activity reported across the country.
- In the United Kingdom (week ending Dec 6, 2015), the influenza activity remained at a low level.
- In Europe (week ending Dec 6, 2015), all countries in the Region reported low intensity of influenza activity.
- In Mainland China (week ending Dec 6, 2015), the influenza activity in both southern and northern China was at low level. The predominating virus is influenza A(H3N2) in northern China, while the proportion of influenza B detection became higher than that of A(H3N2) in southern China.

Sources:

Information have been extracted from the following sources when updates are available: [United States Centers for Disease Control and Prevention](#), [Public Health Agency of Canada](#), [Public Health England](#), [Joint European Centre for Disease Control and Prevention-World Health Organization/Flu News Europe](#) and [Chinese National influenza Center](#).