

Stay Vigilant against Measles

In view of local surge of measles cases, staff should take note of the following key measures to prevent measles transmission in healthcare settings.

- 1. Be alert of the clinical symptoms of measles, travel history and epidemiological linkage i.e. contact of a confirmed measles case or workers at the Hong Kong International Airport (HKIA).
- 2. Airborne precautions: confirmed measles cases should be isolated in Airborne Infection Isolation Room (AIIR) for 4 days after the onset of rash. Healthcare workers should wear a N95 respirator before entering the patient room. If the patient is discharged during the infectious period, the room should not be used for at least 30 minutes to up to 2 hours if possible, depending on the actual ventilation setting of the room.
- 3. Universal masking: all staff and visitors should wear surgical masks while entering patient care areas.
- 4. Reinforcement in hand hygiene and environmental hygiene. Pay extra attention to equipment disinfection e.g. portable X-Ray machine.
- 5. Staff Measles Vaccination Programme (SMVP) has started.

Please visit the designated webpage of measles.

Latest Epidemiology of Measles

Local situation

Between 1 Jan and 3 April 2019, a total of 43 cases (27 males and 16 Table 1: Characteristics of the measles cases: females) of measles were confirmed in Hong Kong (figure 1). Majority of the cases were reported since March 2019. Eighty-six percent of cases had no documented evidence of measles vaccination; 56% had travel history during the incubation period (IP); and 44% were not born in Hong Kong. The characteristics are summarized in table 1.

Twenty-one of the cases were found with an epidemiological link to the recent measles outbreak at the HKIA, including 17 workers at the HKIA and 4 workers of a local airline. Two small household clusters involved 2 adults and 2 infants under one year old. Three of them had travelled outside Hong Kong during the IP. One healthcare worker of HA was affected. Case investigation and contact tracing are in progress.







Characteristics	Number
Sex	
Male	27
Female	16
Age	
0 - 11 months old	3
7 - 18 years old	1
19 – 34 years old	22
35 – 52 years old	17
Travel history during IP	
Yes	24
No	19
Place of birth	
Hong Kong	24
Non-local born	19
Measles vaccination	
Vaccinated (2 doses)	6
Unvaccinated	8
Unknown	29
Outbreak at the HKIA	
Related cases	21
Not related cases	22
Admitted to HA hospitals	39

Other cases Cases related to workers in the HKIA and crew members of a local airline Healthcare workers

CICO's Biweekly Update

Global situation

Many countries are experiencing a resurgence of measles. Outbreaks were reported not only in endemic regions, but also in countries with successful interruption of transmission such as the United States. According to the Centre for Health Protection (CHP), the 12-month measles incidence (number of cases per million population) in Hong Kong was 4.9, which was much lower than other countries in Southeast Asia. The 12-month measles incidence in the Philippines, Malaysia and Thailand were 155.9, 86.4 and 81.0 respectively. A very high incidence was observed in Greece among the European countries.

Local herd immunity against measles

According to the information provided by the CHP, the majority of the people born before 1967 in Hong Kong already have antibodies against measles from previous infections. People who were locally born between 1967 and 1978 are considered as partially protected against measles due to their single dose measles vaccination, whereas majority (74%) of people who were locally born between 1979 and 1984 had received two doses of measles vaccines. People who were locally born in or after 1985 should have received two doses of measles vaccine and the overall vaccine effectiveness has reached 97%. The overall vaccine coverage rate of measles vaccination has maintained at a high level and the local seroprevalence rate of measles virus antibodies (98%) reflects that most of the people in Hong Kong are immune to measles.

Figure 2: CHP – Are you immune to measles?



12-month Countries incidence per million population Philippines 155.9* Malaysia 86.4 Thailand 81.0 Indonesia 16.9 Vietnam 12.6* New Zealand 9.2 8.2 Singapore 3.3 Japan Greece 154.5 44.3 Italy 43.3 France United 14.3 Kingdom 4.9 Hong Kong

Table 2: 12-month measles incidence

*Data was up to 9 Jan 2019

- 1. Majority of those who were born before 1967 in Hong Kong have contracted measles in the past
- 2. May have only received one dose of measles vaccine
- 3. Should have received two doses of measles vaccine

References:

- CHP Daily Update on measles situation in Hong Kong. <u>https://www.chp.gov.hk/files/pdf/daily_update_on_measles_cases_in_2019_eng.pdf</u>
- CHP & IDCTC Ad hoc Clinical Infection and Public Health Forum: Situation Update of Measles in Hong Kong.
- http://icidportal.home/Trainings/View/142
- CHP Thematic webpage of Measles <u>https://www.chp.gov.hk/en/features/100419.html</u>

Influenza activity keeps dropping while hMPV and rhinovirus/enterovirus are on increasing trend

Positive rate of influenza (all types) has been continuously decreasing since after week 3, from 30.1% (peak in week 3) to below 10% in the recent two weeks (8.1% in week 13, figure 3). The daily number of new influenza cases identified in HA since 30/12/2018 also dropped to around 50 cases per day (figure 4). Meanwhile, the positive rate of hMPV has been increasing from around 1% in week 5 to 5.2% last week and positive rate of rhinovirus/enterovirus is also rising to above 10% in the recent three weeks.









For enquires, please call 2300 7456 or email: hocicoteam@ha.org.hk