**Supplementary file 4**

***Infection control preparedness and investigation for measles outbreak in hospitals***

In response to the outbreak of measles in HKIA as well as the increasing number of confirmed cases of measles in the community, proactive infection control measures were implemented by the Hospital Authority, a governing body of 7 healthcare networks with 43 public hospitals in Hong Kong. Based on the infection control infrastructure combating emerging infectious diseases, active surveillance of measles infection according to clinical and epidemiological criteria was performed at the triage stations in Accident & Emergency Departments or outpatient clinics.1-6 Care bundles were implemented for patients recruited under active surveillance, which included early isolation in an airborne infection isolation room, collection of nasopharyngeal and throat swab for rapid molecular diagnostic test, and notification to the CHP. Contact tracing was performed to identify all healthcare workers (HCWs) and patients with significant contact with a confirmed case of measles. Significant contact was defined as face-to-face contact of any length or staying in the same room for ≥15 minutes during infectious period of the confirmed case. Staff forums were arranged to provide timely education to frontline healthcare workers. MMR vaccination was offered to HCWs except for those who were born before 1967 or had received two documented doses of measles vaccination, as they are considered to have immunity against measles.

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