

# CHP investigates case of Legionnaires' disease in hospital

The Centre for Health Protection (CHP) of the Department of Health is today (May 31) investigating a case of Legionnaires' disease (LD) in United Christian Hospital (UCH).

The male patient, aged 86 with underlying illnesses, was admitted to UCH on May 16. His condition later became stable and he was discharged on May 25. He had shortness of breath on May 26 and was admitted into UCH again on the same day. His clinical diagnosis was pneumonia. He is currently in stable condition.

His urine specimen tested positive for Legionella species upon laboratory testing. Initial enquiries revealed that the patient had no travel history during the incubation period. As the patient was admitted to UCH throughout the incubation period, it was initially suspected to be a nosocomial infection.

"Epidemiological investigations with UCH are ongoing to identify potential sources of infection, high-risk exposure and clusters, if any. Relevant water samples and environmental swabs will be collected from potential sources for laboratory testing," a spokesman for the CHP said.

Tracing of contacts including staff and in-patients in the relevant wards is ongoing and those identified will be put under medical surveillance. The CHP has provided health advice against LD to staff and in-patients, including those with weakened immunity who should use sterile or boiled water for drinking, tooth brushing and mouth rinsing. The water supply system of the subject floor will be disinfected urgently. An investigation is ongoing.

Legionellae are found in various environmental settings and grow well in warm water (20 to 45 degrees Celsius). They can be found in aqueous environments such as water tanks, hot and cold water systems, cooling towers, whirlpools and spas, water fountains and home apparatus which support breathing. People may become infected when they breathe in contaminated droplets (aerosols) and mist generated by artificial water systems, or when handling garden soil, compost and potting mixes.

Immunocompromised persons should:

- Use sterile or boiled water for drinking, tooth brushing and mouth rinsing;
- Avoid using humidifiers, or other mist- or aerosol-generating devices. A shower may also generate small aerosols; and
- If using humidifiers, or other mist- or aerosol-generating devices, fill the water tank with only sterile or cooled freshly boiled water, and not water directly from the tap. Also, clean and maintain

humidifiers/devices regularly according to manufacturers' instructions. Never leave stagnant water in a humidifier/device. Empty the water tank, wipe all surfaces dry, and change the water daily.

The public should observe the health advice below:

- Observe personal hygiene;
- Do not smoke and avoid alcohol consumption;
- Strainers in water taps and shower heads should be inspected, cleaned, descaled and disinfected regularly or at a frequency recommended by the manufacturer;
- If a fresh-water plumbing system is properly maintained, it is not necessary to install domestic water filters. Use of water filters is not encouraged as clogging occurs easily, which can promote growth of micro-organisms. In case water filters are used, the pore size should be 0.2 micrometres ( $\mu\text{m}$ ) and the filter needs to be changed periodically according to the manufacturer's recommendations;
- Drain and clean water tanks of buildings at least quarterly;
- Drain or purge for at least one minute infrequently used water outlets (e.g. water taps, shower heads and hot water outlets) and stagnant points of the pipework weekly or before use;
- Seek and follow doctors' professional advice regarding the use and maintenance of home respiratory devices and use only sterile water (not distilled or tap water) to clean and fill the reservoir. Clean and maintain the device regularly according to the manufacturer's instructions. After cleaning/disinfection, rinse the device with sterile water, cooled freshly boiled water or water filtered with 0.2  $\mu\text{m}$  filters. Never leave stagnant water in the device. Empty the water tank, keep all surfaces dry, and change the water daily; and
- When handling garden soil, compost and potting mixes:
  1. Wear gloves and a face mask;
  2. Water gardens and compost gently using low pressure;
  3. Open composted potting mixes slowly and make sure the opening is directed away from the face;
  4. Wet the soil to reduce dust when potting plants; and
  5. Avoid working in poorly ventilated places such as enclosed greenhouses.

â€‹The public may visit the CHP's [LD page](#), the [Code of Practice for Prevention of LD](#) and the [Housekeeping Guidelines for Cold and Hot Water Systems for Building Management](#) of the Prevention of LD Committee, and the CHP's [risk-based strategy](#) for prevention and control of LD.