健康資訊-傳染病

Health Information - Communicable Diseases

Plague

Plague is a communicable disease that affects rodents, some animals and humans. It is caused by the bacteria $Yersinia\ pestis$. There are three main forms of plague infection: bubonic, pneumonic and septicaemic. Plague in human is a serious disease with a case-fatality ratio of 30% - 60% for the bubonic type, and is always fatal for the pneumonic type when left untreated. The incubation period of bubonic plague is usually 2-6 days while the incubation period for primary pneumonic plague is usually 1-4 days. Patients with bubonic plague typically experience a sudden onset of illness characterised by headache, shaking chills, fever, malaise and painful swelling of the affected regional lymph nodes. The infection can progress to septicaemic plague when the bacteria invade the blood stream. The infection can be spread to other organs and cause serious complications. Patients with pneumonic plague typically present with chills, fever, headache, body pains, weakness and chest discomfort, cough with blood-stained sputum, difficulty in breathing and may die rapidly if not treated immediately.

Mode of transmission

Plague is transmitted from an infected animal (mainly rodent) to humans through the bite of infected animal's fleas. People can also contract plague when cuts or other breaks in their skin come into contact with the body fluid or tissue of infected animals, or through inhalation of infected respiratory droplets. Bubonic plague is not usually transmitted directly from person to person unless there is contact with pus from suppurating buboes. Pneumonic plague is highly contagious. It can spread between humans by inhalation of respiratory droplets from an infected person.

Management and Prevention

Plague patients should be isolated and treated with appropriate antibiotics. To prevent plague, travellers are advised to observe the following points:

- Prevent flea bites by wearing long-sleeved shirts and trousers, and applying DEET-containing
 insect repellent to exposed skin and surface of clothes. Pregnant women and children of 6
 months or older can use DEET-containing insect repellent. Besides, permethrin (an insecticide)
 can be applied on clothes, but it should NOT be applied to skin
- If travelling to plague endemic areas, avoid visiting rat-infested places and never contact live or dead rodents. It is also important to take protective measures to prevent flea bites. For more information, please visit the website of Travel Health Service of the Department of Health (http://www.travelhealth.gov.hk)

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