

## Legionnaires' disease in Dubai

### Legionnaires' disease reported in travellers visiting Dubai



As of 6 April 2017, the European Centre for Disease Prevention and Control (ECDC) has reported [50 cases of Legionnaires' disease \(LD\) in European residents returning from travel to Dubai, United Arab Emirates \(UAE\)](#), including 24 cases in travellers from the United Kingdom (UK) since 1 October 2016. This is a small increase in the overall number of cases, compared to the same period in 2014-15 and 2015-16. All those infected stayed in Dubai during the 2 -10 days before onset of symptoms [1].

Dubai is a popular destination for UK travellers, which may explain the higher number of LD cases in UK travellers compared to those reported in other European countries. The UAE authorities have reported that environmental testing for Legionella spp. from hotels and commercial accommodation associated with LD cases is within acceptable limits; there is no information about any additional environmental investigation in the wider community [1].

In response to the situation, Public Health England (PHE) and NaTHNaC have assessed the risk and published a [Risk Assessment on Legionnaires' disease associated with travel to Dubai](#) advising that the overall risk to UK travellers to Dubai is low.

However, in the absence of a potential source(s) being identified and with limited information about the wider public health investigations being carried out in Dubai, PHE is unable to advise about the potential environmental source of these infections.

The World Health Organization has not advised against travel to Dubai [2].

All LD cases identified so far travelled to the city of Dubai. There is currently insufficient information to suggest there is a risk in other areas of UAE [2].

## About Legionnaires' disease

LD is a bacterial infection of the lungs that usually develops into pneumonia. Most people catch it by breathing in small droplets of contaminated water suspended in air.

Symptoms include 'influenza-like' illness with muscle ache, tiredness, headache, dry cough, shortness of breath and fever. Sometimes diarrhoea occurs and confusion may develop. LD is more common in individuals aged over 50 years, smokers and anyone with pre-existing lung problems or chronic medical conditions.

Legionella bacteria are distributed widely in the environment. They can live in many types of water including, natural sources such as rivers and streams, artificial sources such as water-cooling towers, hot and cold water systems and spa pools. People can become exposed to the bacteria if the water systems are not properly maintained and become contaminated.

## Advice for travellers

The risk of LD in travellers to Dubai is low. However, you may be at increased risk of LD if you:

- are aged over 50 years
- smoke
- have an existing underlying medical condition e.g. a respiratory illness or immunosuppression

All travellers should be aware of LD symptoms, as described above. If you develop these symptoms within 10 days of departing from Dubai you should get medical attention, specifying where you have travelled. This will assist the healthcare professional to make an appropriate assessment of your symptoms and clinical condition, so that appropriate testing can be undertaken. If you develop these symptoms while in Dubai, you should seek medical attention locally, as directed by your travel insurance provider [2].

## Advice for health professionals

LD should be considered as a potential diagnosis for cases of atypical pneumonia throughout the year. A urinary antigen test or a legionella PCR test on a lower respiratory specimen may be conducted for an initial diagnosis to be made.

Information for health professionals managing individuals with LD identified following local microbiological testing is available from [PHE](#). All cases of LD (regardless of travel history) should be reported to the [local health protection team](#) (or equivalent in devolved administrations).

## Resources

- [European Centre for Disease Prevention and Control - European Legionnaires' Disease Surveillance Network](#)
- [Health and Safety Executive - Legionella and Legionnaires' disease](#)
- [NHS Choices – Legionnaires' disease](#)
- [Public Health England - Legionnaires' disease: guidance, data and analysis](#)

## References

1. [European Centre for Disease Prevention and Control. Epidemiological update: Legionella in Dubai. 9 March 2017. \[Accessed 10 April 2017\]](#)
2. [Public Health England. Risk Assessment on Legionnaires' disease associated with travel to Dubai. \[Accessed 20 April 2017\]](#)