

# Leptospirosis

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## Why in news?

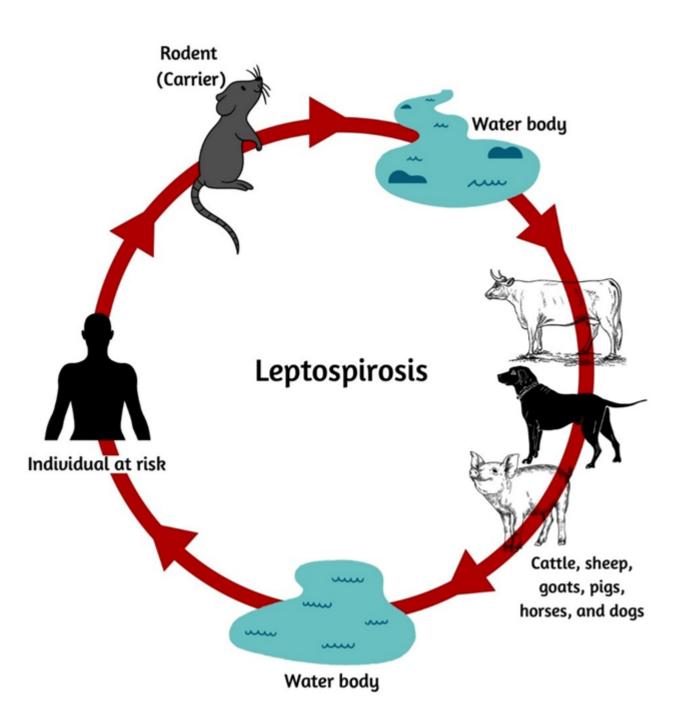
Cases of Dengue and Leptospirosis rises on the urban areas as a sesonal flu.

## About

- Leptospirosis, also known as "**rat fever**", is arare bacterial infection that affects people and animals.
- The disease is**caused by** abacterium called Leptospira interrogans, orLeptospira.

#### Infection

Thecarriers of the disease can be either wild or domestic animals, including rodents, cattle, pigs, and dogs.



## Signs and symptoms

- It generally**takes 2-30 days to get sick**after having contact with the bacteria. Leptospirosis may**occur in two phases.**
- In the **first phase**, people may have **fever**, **chills**, **headache**, muscle aches, vomiting, or **diarrhea**. The person may **feel better for a while** but **become ill again**.
- Some people may suffer a moresevere second phasewithkidney or liver failure, orinflammation of the membranearound the brain and spinal cord(meningitis).

#### **Acute Form**

- Weil's disease, the acute, severe form of leptospirosis, causes the infected individual to become jaundiced (skin and eyes become yellow), develop kidney failure, and bleed.
- Bleeding from the lungs associated with leptospirosis is known as severe pulmonary haemorrhage syndrome.

#### Transmission

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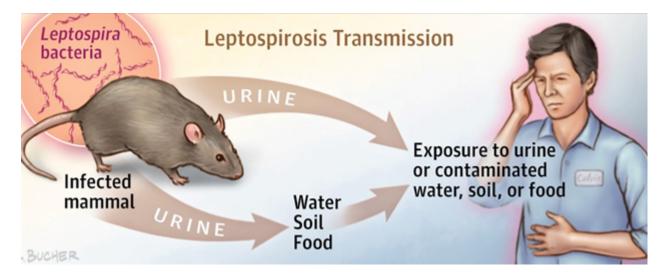
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**Infected animals spread**the**bacteria through their urine (pee).**They may continue to urinate the bacteria into the environment for several months or years.

Thebacteria can survive in contaminated water or soil for weeks to months

It isnot spread from person to person, except in veryrare cases.

It is mostcommon in tropical areas and warmer climates with lots of rainfalleach year.



## Treatment

- Treatment, when infected, is with antibiotics such asdoxycycline, penicillin, or ceftriaxone.
- The lepto vaccination provides protection against leptospirosis.

Leptospirosis is a bacterial dis- ease that affects both humans and animals	➤ It is caused by bacteria of the genus leptospira	In humans, it can cause a wide range of symptoms, some of which may be mistak- en for other diseases
HOW DO HUMANS GET INFECTED The infection spreads first from animals through their urine Humans get infected through direct contact with urine of infected animals or		ANIMAL SPECIES THAT CAN TRANSMIT THE DISEASE TO HUMANS A wide variety of animal species, primarily mammals, may serve as sourc- es of human infection
<ul> <li>with a urine-contaminated environment</li> <li>This infected urine gets mixed with water in puddles, waterlogged streets or flooded areas</li> <li>Humans who wade through such water may get infected</li> <li>The bacteria enters body through cuts or abrasions on skin, or through mucous</li> <li>membranes – nose and eyes</li> <li>Person-to-person transmission is rare</li> </ul>		The following are considered to be the most important in this context: Small mammal species, notably fera and peridomestic rodents (rats, mice, voles, etc.) and insectivores (shrews and hedgehogs) Domestic animals (cattle, pigs, dogs, more rarely sheep, goats, horses and buffaloes)

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