HOW IS LEPTOSPIROSIS PREVENTED?
Fortunately, vaccines are available to protect dogs from this potentially life-threatening disease. An initial series of two vaccinations is typically recommended, followed by annual boosters. Your veterinarian can help you decide whether and when vaccination might be right for your dog, based on your and your dog's needs. Contrary to some beliefs, these vaccines are no more likely to cause side effects than are other common vaccines.

Reducing your dog’s exposure to possible sources of *Leptospira* bacteria can reduce the chance of infection:

- Avoid letting your dog drink from or swim in rivers, lakes, ponds, marshy areas, or slow-moving or stagnant water.
- Keep your dog away from farm animals and wild rodents, including carcasses.

Although an infected dog is unlikely to infect you and your family, there still is some risk. Infected dogs also may infect other pets in the home. The following precautions can help protect you all:

- Give antibiotics to your infected dog as prescribed by your veterinarian.
- Wash your hands after handling the dog.
- Avoid contact with urine.
- Quickly clean up any urine in the home with a household disinfectant, and wear gloves while doing so.
- Encourage your dog to urinate away from standing water or areas where people or other animals will have access.

If you are ill or if you have questions about leptospirosis in people, consult your physician. If you are pregnant or immunocompromised, consult your physician for advice.

FOR MORE INFORMATION ON HOW TO KEEP YOUR PET HAPPY AND HEALTHY AS LONG AS POSSIBLE, VISIT:
American Veterinary Medical Association
avma.org/PetOwners
Leptospirosis is a serious disease caused by infection with *Leptospira* bacteria. These bacteria can be found worldwide in soil and water. There are many strains of *Leptospira* that can cause disease, and many mammals are vulnerable—including dogs, people, livestock, and certain wildlife. Although cats also may become ill, this happens only rarely.

**WHERE DOES LEPTOSPIROSIS OCCUR?**

Leptospirosis is more common in warm climates with high annual rainfall, but it can occur anywhere. Outbreaks have been reported after heavy rainfall and flooding.

For dogs, the Midwestern, Eastern, and Southwestern regions of the United States are considered hotspots of infection. The risk of infection is generally higher in the late summer and fall, but this timing can vary depending on the region or climate.

**HOW IS LEPTOSPIROSIS SPREAD?**

Leptospirosis is most often spread through the urine of an infected animal, especially (but not only) wild rodents. Infected dogs can seem healthy but still pass *Leptospira* bacteria in their urine. The bacteria can survive for weeks to months in urine-soaked soil.

Dogs typically become infected when their mucous membranes (as in the mouth, nose, or eyes) or skin wounds (like cuts or scrapes) are exposed to urine or urine-contaminated water or soil. Infection can also be spread through urine-contaminated food or bedding, or the tissues or carcasses of infected animals. There also are rare instances when exposure to *Leptospira* bacteria occurs through breathing with or being bitten by infected animals. An infected mother dog may pass the bacteria to her unborn puppies through the placenta.

**WHAT DOGS ARE AT RISK?**

In some parts of the United States, where *Leptospira* bacteria are widespread in the environment, almost every dog is at risk of catching leptospirosis, regardless of whether they live in the country, suburbs, or city. Dogs of any age, breed, or sex can be affected. The following situations can put dogs at higher risk:

- Exposure to or drinking from slow-moving or stagnant water sources, like ponds, rivers, lakes, or streams
- Roaming on rural properties (because of exposure to potentially infected wildlife or farm animals or urine-contaminated water sources)
- Exposure to wild animals (especially rodents) or farm animals, even if in the backyard
- Contact with other dogs (such as in urban areas, dog parks, or boarding or training facilities)

**WHAT ARE THE SIGNS OF LEPTOSPIROSIS?**

The signs of leptospirosis in dogs vary, depending on the strain of the infecting bacteria, the dog's immune response, and other factors. Some infected dogs have no signs of illness; some have a mild and transient illness and recover on their own; and others develop severe, life-threatening illness. Dogs with mild signs, or no signs at all, may still carry and pass the bacteria in their urine, becoming sources of infection for other animals.

For dogs that do become ill, the signs tend to be non-specific. These are the most common signs:

- Loss of appetite
- Vomiting
- Lethargy
- Abdominal pain
- Diarrhea
- Jaundice (yellowing of the skin and mucous membranes)
- Dehydration
- Drinking or urinating more than usual
- Weight loss
- Stiffness or muscle pain

The disease can progress to kidney and/or liver failure. Some dogs may develop severe lung disease and rapid, difficult breathing. Damage to the heart muscle has been suspected in some cases.

Leptospirosis also can cause bleeding disorders, which can lead to blood-tinged vomit, urine, feces (stool), or saliva; nosebleeds; and pinpoint red spots on the gums or other mucous membranes, or on light-colored skin. Fluid can build up in the body, causing swollen legs or excess fluid in the chest or abdomen.

**CAN PEOPLE CATCH LEPTOSPIROSIS?**

Yes. Leptospirosis is one of the most widespread zoonotic diseases in the world, meaning it can be spread from animals to people. Infection in people can cause flu-like symptoms, inflammation of the eyes (uveitis) and/or heart muscle (myocarditis), neurologic problems, and liver and/or kidney disease. In the United States, most human cases of leptospirosis have been traced back to recreational activities involving water or exposure to infected rodents. Transmission of leptospirosis from an infected dog (or cat) is much less common, but it is possible.