



Tularemia (*Francisella tularensis*)
 Information for Health Care Providers

Cause	<p><i>Francisella tularensis</i></p> <ul style="list-style-type: none"> ▪ Aerobic, gram-negative, non-spore forming, non-motile, coccobacillus (between a coccus [round shaped] and a bacilli [rod shaped])
Systems Affected	<ul style="list-style-type: none"> ▪ Lymphatic (glandular) ▪ Respiratory (pneumonic) ▪ Cutaneous ▪ Ocular ▪ Oropharyngeal
Transmission	<ul style="list-style-type: none"> ▪ Inoculation of skin, conjunctival sac or oropharyngeal mucosa with blood, tissue or other fluids of infected animals or insects ▪ Bite from an arthropod ▪ Ingestion of contaminated water or food ▪ Inhalation of contaminated dust ▪ Animal bites (rare) ▪ No person-to-person
Reporting	<ul style="list-style-type: none"> ▪ If this is considered an unusual occurrence, immediately report any suspected or confirmed case of tularemia to your local or state health department ▪ Confirmed cases must be reported to the local health department within three working days (e.g., patients with travel history to endemic areas, etc.)
Incubation Period	<ul style="list-style-type: none"> ▪ 3-5 days (range 1-14 days); related to the virulence of the strain, size of dose and route of introduction
Typical Signs/Symptoms	<ul style="list-style-type: none"> ▪ Abrupt onset of fever, headache, chills and general body aches ▪ Dry or slightly productive cough and substernal pain or tightness often occur with or without objective signs of pneumonia ▪ Continuing illness characterized by sweats, fever, chills, progressive weakness, malaise, anorexia, weight loss, sepsis and inflammatory response syndrome ▪ Cutaneous: papule to pustule to vesicle at site of inoculation ▪ Glandular: lymphadenopathy without ulceration ▪ Ocular: ulceration of conjunctival sac ▪ Oropharyngeal: pharyngitis or tonsillitis ▪ Chest X-ray: Peribronchial infiltrates leading to bronchopneumonia in one or more lobes, often accompanied by pleural effusion and enlarged hilar nodes

<p>Differential Diagnosis</p>	<ul style="list-style-type: none"> ▪ Bubonic plague ▪ Anthrax ▪ Q Fever ▪ Community-acquired pneumonia 		
<p>Laboratory</p>	<p>Specimens</p> <ul style="list-style-type: none"> ▪ Obtain specimens appropriate to the system affected: <ul style="list-style-type: none"> ○ Blood (essential) ○ Respiratory secretions ○ Lesion exudates ○ Cerebral spinal fluid (CSF) ○ Skin lesions 	<p>Clues to diagnosis</p> <ul style="list-style-type: none"> ▪ Tiny, pleomorphic, poorly staining gram-negative coccobacillus visible in specimen or culture 	
<p>Treatment</p>	<p>Adults</p> <ul style="list-style-type: none"> ▪ Streptomycin: 1Gm, IM, bid x 10 days ▪ Gentamicin: 5mg/kg IM or IV x 10 days * 	<p>Pediatric</p> <ul style="list-style-type: none"> ▪ Streptomycin: 15mg/kg, IM, bid x 10 days (not to exceed 2Gm/day) ▪ Gentamicin: 2.5mg/kg, IM or IV, tid x 10 days* 	<p>Pregnant Women</p> <ul style="list-style-type: none"> ▪ Gentamicin: 5mg/kg, IM or IV x 10 days* ▪ Streptomycin: 1Gm, IM bid x 10 days
<p>Precautions</p>	<ul style="list-style-type: none"> ▪ Standard contact precautions 		

*Not U.S Food and Drug Administration approved