## ANTHRAX



Highly infectious, Zoonotic, Spore-forming Bacteria

Causative Agent: Bacillus anthracis         Image: Characteristic gram (+) staining bacteria with squared ends in long chains. Note the centrally located spores in the left image	<ul> <li>Signs of an outbreak:</li> <li>Acute death of ruminants</li> <li>Bloody discharge from</li> <li>deceased animals</li> <li>Rapid bloating</li> <li>Lack of rigor mortis</li> <li>DO NOT MOVE ANIMAL, DO NOT NECROPSY</li> <li>Call your veterinarian or SD AIB immediately for sample collection and handling directions</li> </ul>
<ul> <li>Prevention</li> <li>Annual vaccination in late spring/early summer         <ul> <li>(2-4 weeks prior to pasture turnout)</li> </ul> </li> <li>Avoid contact with infected carcasses and do not share water sources with other herds</li> </ul>	<ul> <li>Treatment – contact your veterinarian</li> <li>If caught early, animals can be treated with antibiotics such as oxytetracycline or penicillin</li> <li>Most animals only show clinical signs for a few hours and treatment is not effective</li> </ul>
<ul> <li>their dormant state for decades and are resistant to a</li> <li>Grazing ruminants (cattle, sheep, etc) are most likely drought.</li> <li>Anthrax is not contagious. Direct contact with infected</li> </ul>	-
Human Safety	Outbreak Response

<ul> <li>Human Safety</li> <li>The most common form of anthrax in humans is cutaneous (skin). This form is rarely fatal and easily treated with antibiotics.</li> <li>The gastrointestinal form is less common but more severe. It is caused by undercooked contaminated meat.</li> <li>The inhaled form (lung) is the rarest and most severe.</li> <li>Contact your physician if you are concerned about exposure.</li> </ul>	<ul> <li>Outbreak Response</li> <li>WEAR PERSONAL PROTECTIVE EQUIPMENT (PPE) <ul> <li>Gloves, boot covers, etc</li> </ul> </li> <li>Do not move animals or carcasses from or within the premises</li> <li>Clean and disinfect all machinery, equipment, clothing, and other materials that could be contaminated</li> <li>Under SD AIB direction, bury +/- burn all infected carcasses, bedding, that could be contaminated</li> <li>Quarantines will be lifted 30 days after the last carcasses is disposed of</li> </ul>
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