

CLOSTRIDIUM DIAGNOSIS OUTLINE

CUBOLAC

Polyclostridial inactivated vaccine to prevent clostridial diseases in ruminants

Appearance	Age	Symptoms	Probable diagnostic	Cl. sp involved
DEATH OF ANIMALS	All ages	Nervous agitation and death	Pulpy kidney	<i>C. Perfringens</i> D (ε toxin)
		Death without agitation	Acute or exacerbated pasteurellosis	<i>Mainnhemia haemolytica</i> A2
	Young or immature animals	Nervous symptoms, blindness and disorientation	Acute enterotoxemia	<i>C. Perfringens</i> C (β toxin)
	Adults	Nervous symptoms, excitement, sudden death	Enterotoxemia	<i>C. Perfringens</i> D (ε toxin)
Sudden or progressive death	Breeding or replacement animals	Digestive tract disorders	Yellow lamb disease	<i>C. Perfringens</i> A (α toxin)
			Enteritis	
Death in a few hours	All ages	Fever, animals that die within a few hours	Necrotic hepatitis, gangrene.	<i>Novyi</i> B (usually associated with Fluke)
DIARRHEA IN WEANING ANIMALS	Lactating animals	Diarrhea of creamy colour	<ul style="list-style-type: none"> Colibacilar diarrhea Viral diarrhea Parasitic diarrhea 	<ul style="list-style-type: none"> <i>E. coli</i> <i>Rotavirus</i> <i>Cryptosporidium parvum</i>
		Diarrhea of dark colour	Lamb dysentery	<i>C. Perfringens</i> B (β toxin)
ANOREXIA, DEPRESSION, HIGH FEVER	Young animals grazing in frozen meadows	Sudden onset of illness, anorexia, depression, high fever (42°C, 107 F or more), abdominal pain	Bradsot (necrotizing abomasitis)	<i>Cl. Septicum</i> (it can be mixed up with <i>c. perfringens</i> D)
LAMENESS, LOCAL EDEMA OF THE FORELIMBS	All ages (several number of animals affected)	Muscle tissue necrosis of forelimbs, sudden death without other symptoms	Blackleg	<i>Cl. Chauvoei</i>
CUTANEOUS OR MUSCULAR WOUNDS, EMPHYSEMA	All age after wounds or parturition season	Emphysema (not always at the site of infection), high fever	Malignant edema	Mainly <i>Cl. Sordelli</i> also <i>Cl. septicum</i> , <i>Cl. chaouvei</i>