

ADVICE SHEET



ENTEROTOXEMIA







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CHARACTERISTICS

Enterotoxemia is characterised by a **sudden mortality** affecting animals. It is a **bacterial disease** most often caused by Clostridium perfringens, Clostridium Sordeli, Clostridium Septicum but also enterotoxigenic E. Coli.

CLOSTRIDIUM PERFRINGENS



- **G+ strict anaerobic bacteria** (difficult to find in the samples).
- Affects the top animals, the most glutton ones.
- **Ubiquitous germ**: C. perfringens is a normal host of the digestive tract. It is also found in the ground, water and air.

• The strains of **C. perfringens** are classed into **5 toxinotypes** (A, B, C, D, E).

- Responsible for a large number of pathologies, in humans as well as in animals:
 - \rightarrow lamb dysentery (due to C. perfringens type B).
 - \rightarrow pulpy kidney disease (due to C. perfringens type D).
 - \rightarrow infectious necrotic hepatitis (due to C. noyi or C. oedematiens type B).
 - → gastrotoxemia (due to C. septicum) especially present in countries with extensive livestock production during weaning.

E. COLI



- **Escherichia coli bacterium**: a Gram-negative bacillus present in the saprophytic flora.
- Among more than 200 different types, only a few are **pathogenic** causing **enterocolitis** on the first **segments** of the **small intestine**.
- The pathogenic strains of E. coli release toxins.

CLINICAL SIGNS





ENTEROTOXEMIA



AUTOPSY







Accumulation of gas in the gastric reservoirs.

















Photograph sources: Réussir 2019







Generalised intestinal congestion.



Hepatic impairment.



CAUSES



Intestinal flora imbalance

Sudden variation in diet.

- \rightarrow Change in ration (milk replacers as well as fibrous feed).
- \rightarrow Poor dietary transition.
- → Weaning management.
- Dietary excess.
- \rightarrow Amount of litres or concentration too high.
- → Saturation of the animal's digestive capacities.
- Acidogenic ration (excessive cereals).

Stress

- Stress: release of adrenaline that disturbs diaestion.
- Substantial change in temperatures (cold nights).
- Not enough watering.
- Dewormina.

Deficiencies

Phosphorous deficiency in lambs resulting in a pica.



Parasites

Tapeworm, coccidiosis, fluke.



PREVENTION & TREATMENT



Avoid nutritional stress

- Comply with the feeding plans: volumes and concentration.
- Redistributing to good drinkers is a risk factor.
- Comply with the preparation and distribution temperatures.
- Meals at fixed times.
- Accompany weaning: plan, transition.
- Fibre management: excess nitrogen.
- Constant supply of clean water.



Avoid thermal stress

- Ventilation.
- Volume of the buildings.
- Insulation
- Cold spring and autumn nights.



Treatment

- Mortality is so sudden without prior signs that there is not enough time to set up curative treatment: beta-lactams, penicillin injections.
- Vaccination (against the toxins).

Only veterinarians have the legal authority and abilities to diagnose and intervene on sick animals.

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Hygiene

- Cleaning and disinfection of buckets.
- Fallowing, scraping, disinfection of buildings.
- Mulching.
- Colostrum.
- Treatment of parasitism.
- Vaccination.



Avoid behavioural stress

- Noise
- Behaviour
- Water and food access points.

