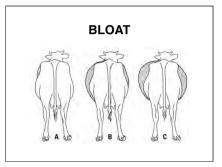
BLOAT



bloat

- · frothy bloat (primary)
- · free gas bloat (secondary)
- failure to eructate
- injury?
- hypocalcaemia



incidence

- · common in dairy cows
- · rarely in sheep
- · abomasal bloat in lambs

aetiology

- · plant factors
- rapidly grown clover (alfalfa worst) & grass
- low tannin levels
- · animal factors
- ruminal microflora
- salivary composition & volume
- · environmental factors
- warm wet weather

pathophysiology

- · rapid fermentation of clover
- · proteins form stable foam
- · animal unable to eructate
- · ruminal distension
- · dyspnoea, reduced cardiac output
- death

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treatment

- · in emergency
- pass stomach tube
- insert large cannula
- rumenotomy



treatment

- · oils
- · detergents
- · household remedies for first aid

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OILS

- · edible oils
- may flavour milk
- softer milk fat
- · liquid paraffin
- absorbs fat soluble vitamins
- · oils are not very effective for treatment

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detergents

- · non-ionic surfactants
- polyethoxylated alcohols
 poloxalene
- · ionic detergents
- toxic
- rarely used
- · dioctyl sodium sulphosuccinate

side effects

- · diarrhoea
- excitation

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first aid

- · milk 1L
- · cream 250mL
- · vegetable oil 100 500mL
- · spirits ?





IX many grants			

prevention

- · avoid dangerous pastures
- · feed hay before turning cows out
- · spray pastures with oils
- · detergents in drinking water
- · drench daily with polyethoxylated alcohol
- · drench at milking with oils
- · paint detergents on cows
- · antibiotics
- · breed bloat resistant cattle

antibiotics



- ionophore antibiotic
- alters ruminal flora
- takes several days to work
- available as a slow release capsule or drench
- kills horses and dogs

antibiotics

- · grain fed cattle
- may be free gas or frothy bloat
- wide variety of "production enhancer" antibiotics used
- most kill Lactobacilli





bloat

- · prevention is better than cure
- in emergency relieve ruminal tympany
 try stomach tube first
- treatment polyethoxylated alcohols (PA)- check rest of herd
- prevention good husbandry, PAs or monensin

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