

Therapeutic effect of carbonate buffer mixture on gastrointestinal atony in cattle

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Abstract

AIM: To substantiate the therapeutic effects of carbonate buffer mixture on naturally occurring gastrointestinal atony in cattle.

METHODS: Therapeutic effects of carbonate buffer mixture (Na_2CO_3

50 g, NaHCO_3 420 g, KCl 20 g, NaCl 100 g, water 10 L) were observed in 120 cases of gastrointestinal atony including forestomach atony, rumen impaction, rumen acidosis, omasum impaction and intestinal constipation. Judgement of curative effects as cure: after treated, the cases become clinically normal in general conditions, appetite, rumination, ruminal peristalsis and defecation; uncure: after giving two doses, the gastro-intestinal atony has not been eliminated.

RESULTS: Average cure rate of carbonate buffer mixture on above mentioned diseases were 95%, and average dose was 1.4 ± 0.5 .

CONCLUSION: Being a new approach for treatment of gastrointestinal atony in ruminants, the carbonate buffer mixture can eliminate the gastrointestinal atony originated from the over acidity in gastrointestinal canal.

Key words: Carbonate buffer mixture; Gastrointestinal atony; Therapeutics; Cattle

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