

AN IMPROVED STOMACH TUBE FOR THE TREATMENT OF CATTLE TYMPANIA

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Summary. The stomach tube for the treatment of cattle tympania was improved in the research center of digestive physiology and pathology. The tube proposed consists of two parts - an elastic, transparent plastic tube and a bronze head. The tube is flexible, corresponds to the physiological parameters of cattle throat and esophagus. It contains 8 holes (0.7 mm) in a line.

Because of its weight the closed bronze head plunges into the caudoventral part of the rumen and the bend of the plastic tube turns up. The holes on the tube help to decrease the elasticity of the upper part of the tube and to bend it to the top of the rumen where gases are concentrated. The tube becomes softer here and it bends easily to the top after pushing removing the gases through the holes.

The efficacy of the tube GGZ-1 has been tested in the treatment of 101 cows suffering from rumen tympania. The following conclusions were made:

1. Using stomach tube GGZ-1 for the treatment of rumen tympania in cattle gases were removed in $71,6 \pm 3,5$ s. from the rumen of all cows. Tcherkasov's stomach tube helped to remove gases just for 50 % of cows and it took about $173,31 \pm 32,32$ s.

2. Injuries of throat and oesophagus were observed in 18,7 % of cows treated using Tcherkasov's tube while with the tube GGZ-1 such complications were prevented.

3. The improved instruction of stomach tube GGZ-1 applied for cattle rumen tympania treatment has been approved by the Pharmacological Board of Veterinary Preparations Commission and technical terms for its production have been prepared (TS 1195077-03-94). They have been registered as a standard. This tube is produced by the Research Center of Digestive Physiology and Pathology of LVA.

Keywords: cattle, tympania, stomach tube.