



The pH dynamics of the goats and cows rumen and abomasums

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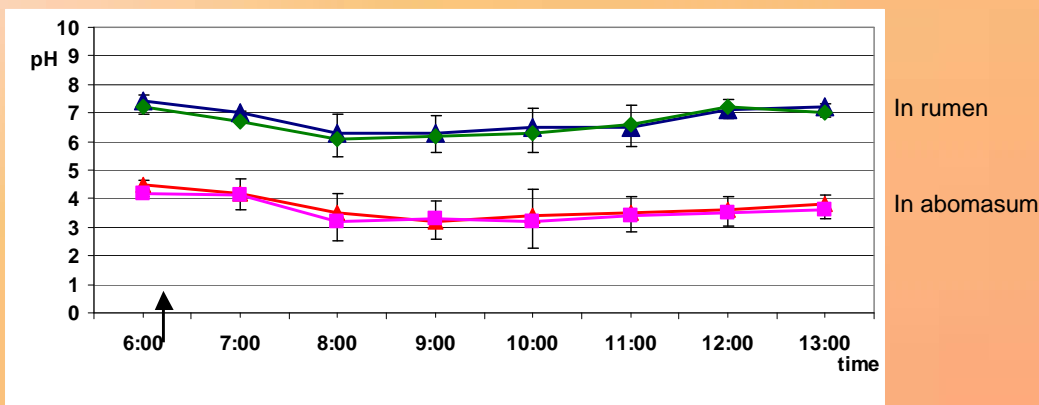
The aim of investigation there were compared the dynamics of the intraruminal and intraabomasal pH in adult goats and cows one hour before and seven hours after unlimited hay and concentrated mixed feed based on barley, wheat and sunflower meal (goats – 0,5 kg and bulls - 2 kg) feeding.

MATERIALS AND METHODS

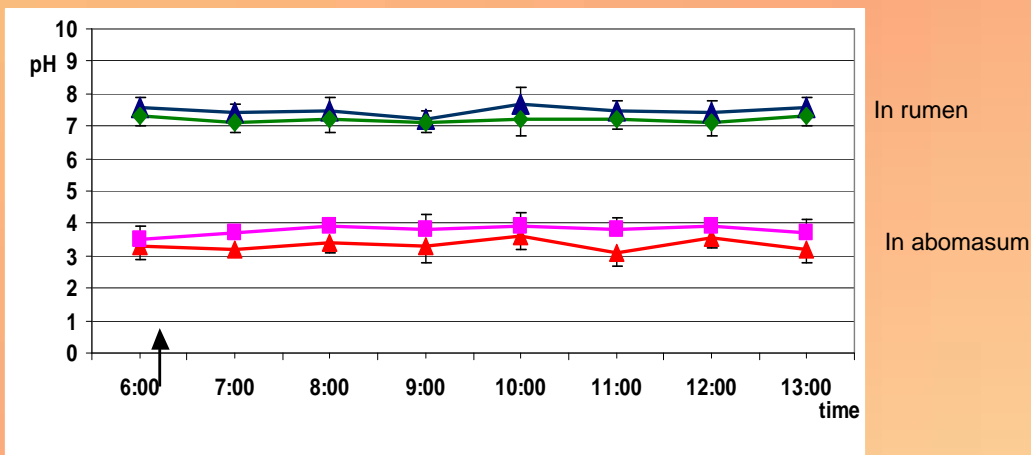
In this study five bulls (n=5) in the age of 1.5 and one year old goats (n=5) were included.

To investigate the changes of reaction of abomasum and rumen in animals before and after feeding, the uninterrupted long-lasting intragastric pH measurement method was applied together with chronic fistula method. For intraruminal and intraabomasal pH measurements special flexible pH-probe with two antimonic electrodes (12 cm distance between each other), and one calomel electrode at the end of the probe was used.

RESULTS



Intraruminal and intraabomasal pH in adult goats before and after feeding hay and concentrated mixed feed.



Intraruminal and intraabomasal pH in bulls before and after feeding hay and concentrated mixed feed.

CONCLUSION

It was established that in adult bulls pH in rumen and abomasum did not significantly changed after the feeding of the concentrated mixes feed and hay, but in goats after the similar feeding pH level in the rumen and abomasum significantly decreased during the two hours period. Thereby these functional processes in rumen and abomasum are different in these ruminants.