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INHIBITORY EFFECT OF AMYLASE ON PANCREATIC SECRETION

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Annotation: From the duodenum, pancreatic secretion is corrected depending on the pH of its contents, the type and concentration of nutrients of pancreatic enzymes. Thus, it has been proven that the introduction of pancreatic secretion of proteolytic enzymes inhibits the secretion of the pancreas. especially secrepial pancreatic hydrolysis.

Key words: Pancreatic secretion, M-amylase.

Purpose: The study of the specificity of inhibition of the secretions of ma- tcreatic enzymes was carried out in this study, in which the effect of intraduodenal administration of pancreatic amylase and its same together with M-amylase inhibitor was studied.

Material and Methods: Acute experiments were performed on 6 dogs (weighing 5–6.5 kg) under hexenal anesthesia. In dogs, the main pancreatic duct was cannulated. The secondary duct was ligated. They also bandaged the intestine at the border with the stomach at the beginning of the intestine, strengthened the tube for the introduction of hydrolysin acidified to pH 2.0 into the lumen of the intestine, a secretion stimulator.) Hydrolysin was injected into the intestines every 15 minutes, 3 ml throughout the entire experiment with a capacity of 10 * 24. Pancreatic juice and urine were collected in hourly portions, their volume was taken into account every hour, venous blood was taken.

the indicators of the first 24 experiments were taken at the 3rd hour, amylase was injected into the duodenum at the th hour, the controls were studied after the action of this introduction; at 5 and an hour with the same amount of amylase, a wheat inhibitor was introduced into the intestine and control data were collected to repeat the opiate cycle.

Results: Show.

WHAT INGRADENALLY the administration of imylase did not indicate a pronounced effect on the volume of tukreagitsskaya secrepino, secretion in the bicarbonate juice. Lipases and proteases. BUT significantly reduced the secretion of amylase due to the aftereffect of amylase was studied in the 6-7th hour. (p 0.OG) a decrease in the amylolytic activity of the juice, the protein content in the juice and a slight decrease in its protein secretion rate over 14 (in 7 experiments out of 8, i.e., according to the nonparametric sign criterion, it was significant). Conclusion: The obtained experimental data allow us to conclude. that the introduction This was due to the decrease in the amylase inhibitor to the duodenum, removing the inhibition of amylase secretin caused by a decrease in the amylolytic activity of the duodenal contents.

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