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PAPER TITLE INVESTIGATION OF AN ANTIRADIATION ACTIVITY OF ACIDI GLUTAMINICI AND ITS DERIVATES

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It is known, that acidi glutaminici and its derivatives have wide biological activity, directly take part in the regulation of energy, protein and lipid changes in human being in some pathological and stress conditions.

On the other hand pharmaceutical industry produces some drugs with acidi glutaminici for treating some disorders. Beside this Natrii glutamat is used in food industry.

In this report there are data about toxic and antiradiation properties of acidi glutaminici and its derivatives: glutamini, glutamat Kalii and Calcii, Magnii, Lizine in experiments on small laboratory animals.

Natrii glutamat was used as food addition in total gamma-radiation.

At first an antiradiation activity of the drug was investigated in different combinations: during 15 days before, after, before and after the radiation. At the second turn of experiments such groups of animals were influenced with acute radiation in sublethal doses 600 and 750 rad.

The conditions of prolonged radiation with low power were investigated too.

The results allow to consider that Natrii glutamat in experiments on small animals in conditions with acute or prolonged radiation increase their survival with different doses on 35-40%.

To make final conclusions we must experiment Natrii glutamati on big laboratory animals - dogs.