

# THE EFFECTIVENESS OF PLANTS PREPARATIONS FOR THEIR USE IN AIRBORNE RESPIRATORY DISEASE OF PIGS

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A significant reduction in the number of farm animals on the farms of Ukraine is not caused significant changes in the structure of infectious diseases. According to the research of many scientists and statistics, acute respiratory infections is second only to diseases of the alimentary canal and cause significant economic losses to livestock. In piglets early age often record: influenza, pneumonia contagious swine complicated chlamydia, mycoplasma, salmonella, pasteurella, streptococci, escherichia and other microorganisms.

Named disease recorded in most countries, are highly contagious, mortality and cause significant economic losses to livestock. They arise more often in animals with weakened natural resistance, defined as a violation of feeding, growing technology and welfare, under stress condition and other factors that reduce the protective functions of the body and lead to disease.

In Ukraine, first developed and proposed production of biologically active herbal: proteflazidum, flavosmolon and coniferous chlorophyll- karotyn paste. It is very important to further study their antimicrobial and fungicidal properties, working out the optimal dose of health care applications, the impact on the immune status of calves and piglets, particularly in the natural resistance and immunological reactivity of animals, and the development and introduction of clean and efficient drugs plant origin that stimulate the body's defenses, and that could be applied to animals physiological way - by inhalation.

During experimental study it has been determined for the first time that 0,5% solutions of proteflazid and chlorophyll-carotene paste in aerosol form show positive effect of above mentioned medicines on immune status has been proved for piglets during their aerosol administration, namely probable (deviantion  $p < 0,05$ ) haemoglobin, leukocytes amount, total protein increase and growing tendency of phagocytosis index and increase of serum bactericidal activity in case of aerosol administration of 0,5 % solutions of proteflazid, and coniferous chlorophyll-carotene paste.

Calculations of economic efficiency confirm practicability and promising administration of proteflazid and coniferous chlorophyll-carotene paste in form of aerosol.