

## PORTABLE KIT FLUORESCENT RAPID DIAGNOSIS of ANIMAL MICROSPORIA / Volkov A. N.

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Scientific and technological progress in the current environment requires innovation in the development of new diagnostic, preventive and therapeutic tools to combat diseases common to humans and animals, services and technologies or improvements. This is where the focus should be on making it a portable kit for fluorescent microsporia rapid diagnosis in humans and animals, confirm the possibility and expediency of the use of innovations in practice.

The aim of the work was to create a portable toolkit for the rapid diagnosis of fluorescent microsporia animals and improving screening procedures and selection of diagnostic samples of biological material with a microsporia cells under the control of fluorescence.

The evaluation of the fluorescence intensity were performed visually using the illuminator OLD-41 light filter Wood or fluorometer. During visual measurements comparing the fluorescence intensity standards.

The portable kit is designed for use both for research and for use in the production of local, regional laboratories of veterinary medicine for fluorescent rapid diagnosis microsporia animals from cats, dogs, horses, and fur-bearing animals, pigs and others. Portable kit allows you to quickly assess the level of contamination the skin of the animal dermatomycetami (dermatophytes) species *Microsporum canis*, *Microsporum gypseum*, *Microsporum equorum*, *Microsporum nanum*, genus *Microsporum*, group Dermatophytes, are which incomplete fungi (Fungi imperfecti) and to identify areas with a strong, medium and weak fluorescence intensity for purposeful selection of diagnostic samples of biological material.

The studies found that surveyed 333 portable set of cats strong fluorescence was detected in 3,3%, average – 13,2% and weak – 30,0%. Of 286 dogs surveyed strong fluorescence was recorded at 2,4%, average – 5,6% and weak - 26,6% . In horses with strong fluorescence examined 75 is set to 4%, average - 8%, and weak – 22,7%.

The results of studies on the use of an experimental portable kit for fluorescent rapid diagnosis microsporia animals. The efficiency of its use during in cats, dogs and horses microsporidian diagnostic activities.

Key words: portable set, cats, dogs, horses, microsporia, diagnosis.