

Effectiveness of Ethno-Veterinary Practice Use in Treatment of Swine Dermatitis

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The aim of this study was to evaluate the effectiveness of a selected medicinal recipe used in Ethno-veterinary practice to prepare a cream to cure swine dermatitis. The toxicity was evaluated using BALB/c mice model. The results were taken from elimination of *Sarcoptes scabiei* from naturally infested swine herds. All aqueous herbal preparations and oils were prepared separately using ethno veterinary recipes. These mixtures were mixed with an aqueous solution base. The cream contains 75% aqueous cream base, 20% aqueous herbal preparation mixture and 5% oil mixture. Skin irritation test, ear swelling and histopathological studies were performed for toxicity studies. Treatment effectiveness was determined by mite count of swine using Student t-test. In the skin irritation test, there was no signs of erythema and edema after application of once until 72 hours. With application of three consecutive days it could observe that there were no signs of erythema and edema for sensitization treatment. Therefore, the formulation was not exhibited signs of erythema and edema after application of the cream. Biopsy samples were collected after 72 hours of application the cream. Histopathological evaluations were carried using light microscopy. There was an inflammation on treated ear. Measurement were taken from ear thickness to evaluate the swelling of ear. Observed mice did not show significant difference between the ear swellings. Mite count of pigs in day ten was significant than the other days. The cream has to be applied at least ten days to get better results. The cream can be used for curing swine dermatitis.

Keywords: Ethno-veterinary, Histopathological studies, Skin irritation, Plant extracts, Swine dermatitis