



Search for Detection of Classical Swine Fever Virus Antigens in Domestic Pigs and Wild Boars in Albania

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Abstract: Worldwide, CSFV is considered to be one of the most important swine pathogens, which is systematically controlled in a majority of countries. The disease is important because the virus can become widespread and cause a high mortality, especially in young pig populations. Classical swine fever virus can be phylogenetically categorized into three different major genetic groups and several subgroups. Within each subgroup, different strains with variation in virulence can be distinguished. The aim of this study was to evaluate the presence of CSF virus in domestic pigs. To realize this study 914 organ samples and 168 blood samples were collected from domestic pig, in 18 regions. Control was primarily aimed at rural areas, but without excluding concentrated swine growth complexes. There is also an attempt to detect CSFV also in wild boars. Were collected 30 samples from wild boars. Samples from them were collected during free hunting mostly in North of the country. Organ samples were tested with ELISA Ag (Prio - Check - CSFV Ag), based on the principle of double antibody sandwich for early detection of viral proteins and identification of disease prior appearing clinical signs. Serum samples were tested with ELISA Ab (HerdCheck Ag/serum IDEXX). For virus isolation was performed inoculation of pathological material in the cell line PK 15 (Porcine Kidney 15), sensitive to CSF virus. 36 organ samples (3.9%) collected from domestic pigs resulted doubtful-positive. Positive resulted samples were sent for confirmation of CSF in the EU Reference, Hannover, Germany, and all of them were confirmed negative. No presence of CSFV antigen was detected in serum samples.

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