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TITLE

RESULTS OF DIAGNOSTIC SAMPLES FROM SWINE FOR SWINE INFLUENZA A VIRUS IN THE NETHERLANDS AND BELGIUM IN 2018

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CONTENT

Here we present the analysis of samples from swine gathered by veterinarians in The Netherlands and Belgium in 2018 and analysed by IVD GmbH, Innovative Veterinary Diagnostics, Seelze, Germany, for Swine Influenza A Viruses (IAV).

For sampling either IDT-sampling kits containing 20 swabs were used, swabs were sometimes pooled per 5 in tubes containing virocult media, or chewing ropes to collect saliva were used. Detection and typing of IAV was done by multiplex Real-Time PCRs (RT-qPCR). Typing is not possible at low virus concentrations.

In total there were 26 submissions with a total of 167 samples from Belgium and 34 submissions with 307 samples from The Netherlands. In Belgium there were 3 submissions of saliva of respectively 4, 2 and 2 samples each and one submission of 3 lung swabs. All other samples were nasal / nare swabs.

Four samples from one submission were not analysed, the other samples in this submission were all positive (n=8, not typed). All 3 lung samples were positive for H1huN2. Three out of 8 saliva samples were positive (1 out of 2, not typed, and 2 out of 2 typed as H1huN2).

Samples from 11 submissions from Belgium could be typed. H1avN1 was found in 6 submissions, H1huN2 in 4, H1pdmN1pdm in 1 together with H1huN2, and a H1avN2 reassortant in 1 submission. The case where H1pdmN1pdm and H1huN2 was found, will be presented separately, because it was the first time H1pdmN1pdm was found in Belgium.

Samples from 13 submissions from the Netherlands could be typed. H1avN1 was found in 7 submissions, H1huN2 in 5, including one herd where also H1avN1 was found, H1pdmN2 in 1, and an H1avN2 reassortant in 1 submission.

Pandemic IAV are found in swine in the Benelux. Co-infection with two types can occur within one herd.