

# CORRELATION BETWEEN PRRSV AND SIV INFECTIONS AND FARM CHARACTERISTICS ON DUTCH SWINE FARMS

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## Background & Objectives

The goal of this study was to assess positivity for Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) and Swine Influenza Virus (SIV) in nurseries of Dutch farms and its association with the farms' characteristics and production system.

## Materials & Methods



- 110 nurseries
- Oral Fluids: 2-3 ropes/farm
- 12-24 pigs/rope (8 weeks of age piglets)
- Refrigerated and sent to lab within 24h
- Submitted to PRRSV RT-PCR and SIV RT-PCR.

Figure 1. The oral fluid samples were collected with ORALCHECK pack.

After the sample collection a survey was filled for each farm, collecting data on farm characteristics.

## Results

70 farms (63.6%) were positive for at least one of the viruses, including 24 farms (21.8%) that were simultaneously positive for both.

Figure 2. Positivity to PRRS in nursery: effect of farm size (p=0.04).

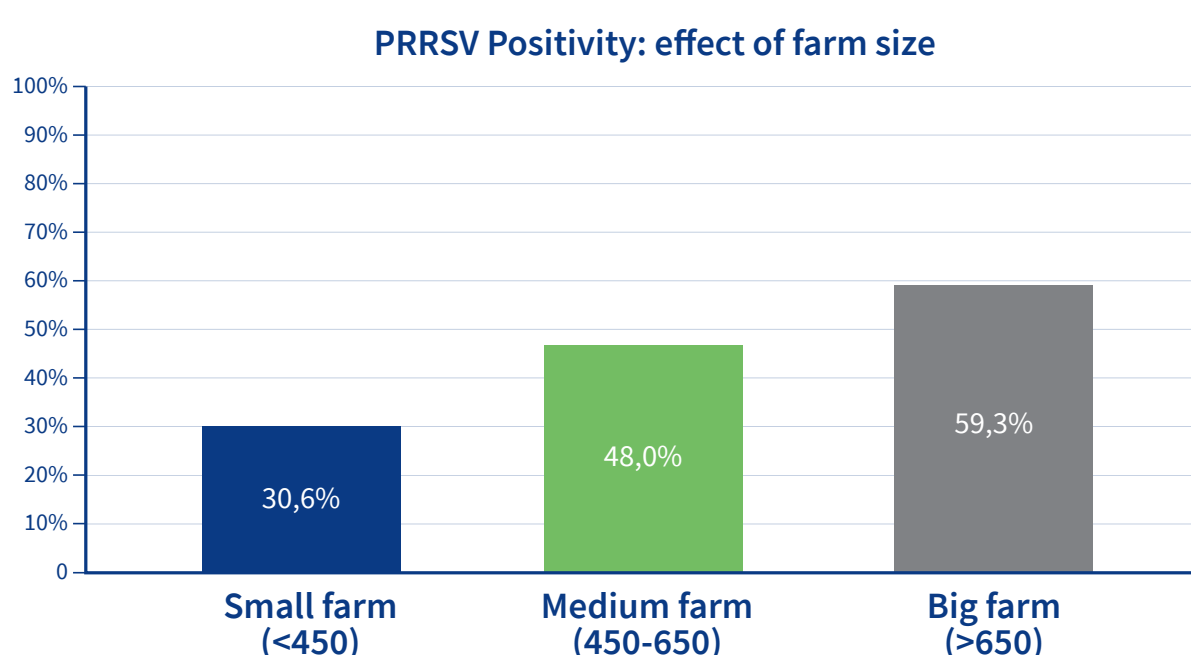


Figure 3. Positivity to SIV in nursery: effect of farm size (p=0.03).

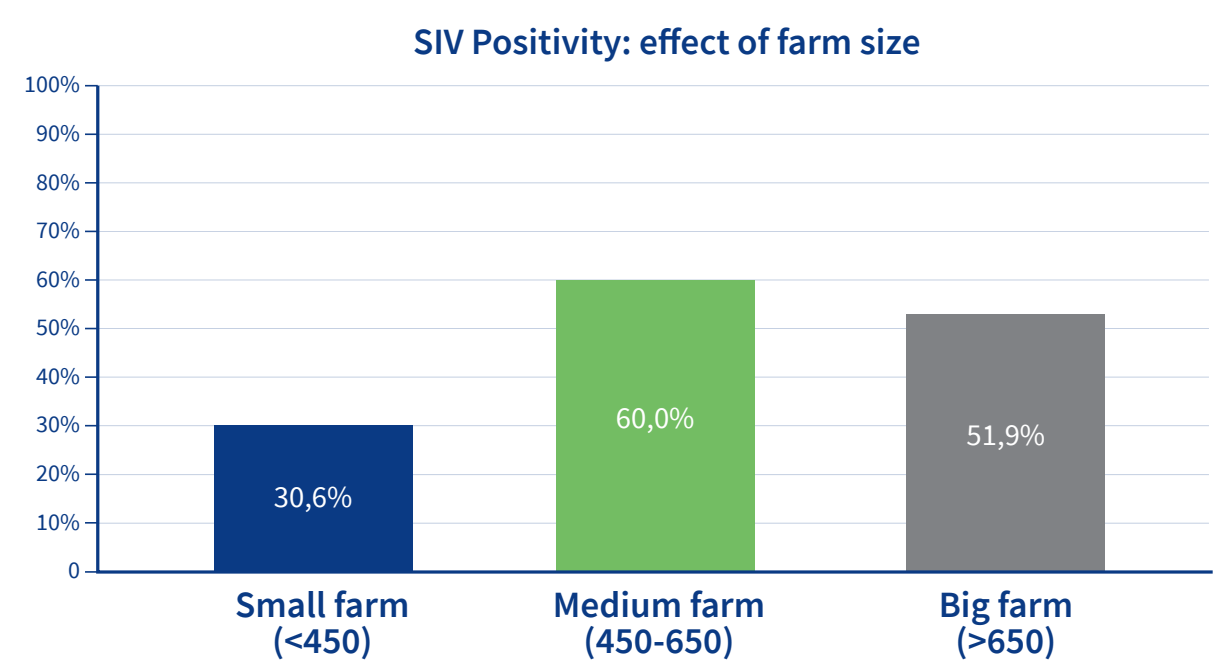
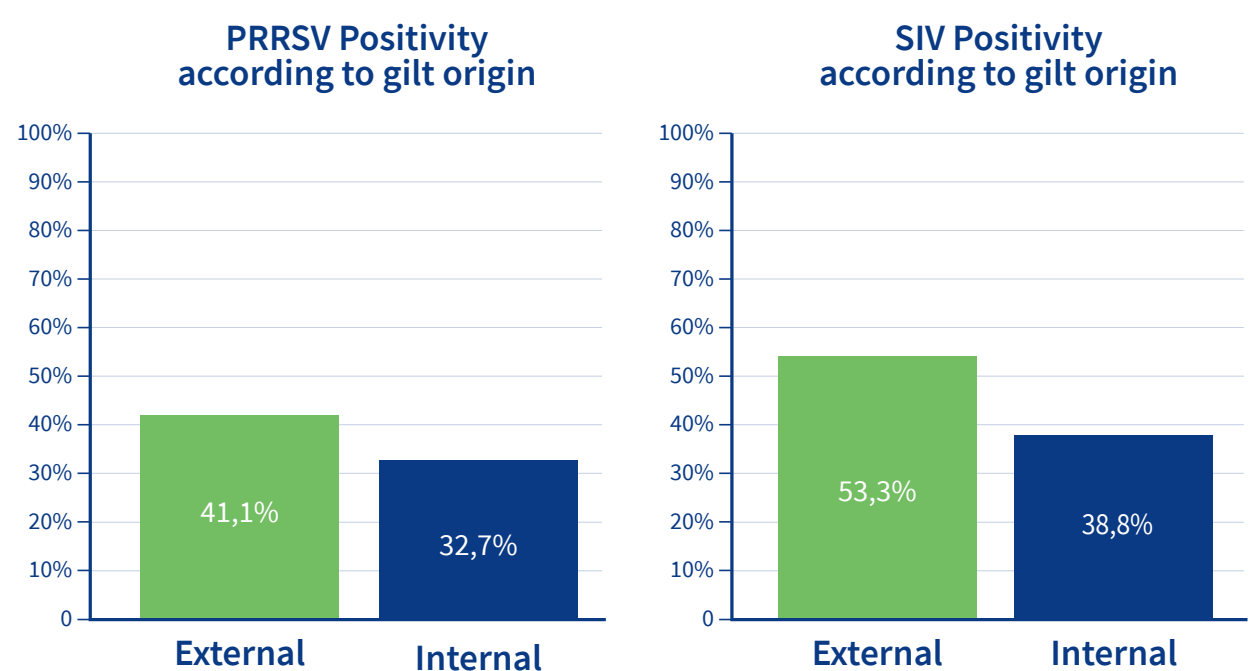


Figure 4 and 5. Positivity to PRRSV and SIV in nursery: effect of gilt origin. (p>0.05 for both).



Some farms (n = 8) had off-site nurseries. These off-site nurseries (site 2) had lower PRRS positivity than nurseries inside sow farms (site 1+2), but without statistical significance (12.5% versus 42.6%; p=0.07).

## Discussion & Conclusion

The results suggest a relevant presence of PRRSV and SIV in the nurseries, with almost 1/4 of farms having simultaneous circulation of both viruses.

Farm characteristics, such as herd size, origin of the gilts, and segregated production (off-site nurseries) may also play a role in the positivity of the nurseries and should be taken into account in disease control programmes.

Code assign: HHM-PP-30