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TITLE

B-ESECURE: ESTIMATION OF EFFECT BIOSECURITY IMPROVEMENT ON PRODUCTION- AND ECONOMIC RESULTS

Victor Geurts¹, Otto Schreurs², Paul Bens³

¹ MSD-AH Nederland, Boxmeer, The Netherlands

² Veterinary Clinic Advée, Ysselsteyn, The Netherlands

³ DLV advies, Uden, The Netherlands

CONTENT

Introduction:

Biosecurity procedures impact diseases such as PRRS, but applying and following biosecurity rules is often difficult. B-eSecure (PigChamp EU program piloted by MSD-AH) is an electronic system that tracks and reports correct and wrong movements of people on farms. On single site multiplying farms PRRSv circulation in the nurseries increases the risk of reproductive problems of sows and thus the economic results. The system is installed on a Dutch 900 sows multiplying farm with repeated abortion waves and weak born piglets due to PRRSv. The effect of internal biosecurity improvement on reproduction- and economic results is evaluated.

Materials and method:

Via installed tracking-devices, movements of people who wear personalized beacons are reported. The PRRSv status of sows, gilts, farrowing-, nursery- and finishing unit was determined and groups with circulating PRRSv defined as red vs groups without as grey. Movements from grey to red were defined as safe and from red to grey and between red as unsafe unless a hygiene-lock was used between them (checked by locker devices). The % of correct and risky movements on farm and per person are reported. Reproduction- and economic effects are estimated via comparing the technical results over a 12 month period with the system with the 12 months before. PRRS shedding status is monthly monitored via PRRSv PCR testing on piglets at weaning. There were no changes in vaccination of feeding strategies.

Results:

Risky movements decreased: 23%(9-2017)? 8%(9-2018).

Weaners got PRRS PCR negative in 1-2018.

Farrowing rate: 91,8% ? 90,5%

Weaned P/S/Y: 30,13 ? 30,58

Economic effect* (?Weaned P/S/Y): €16,13/sow/year

*guideline DLV-advies Uden

Conclusion:

B-eSecure is very helpful for visualization, implementation and improvement of biosecurity procedures and resulted in a structural decrease of risky movements.

Linking the program with PRRSv prevalence- and production results showed a positive relation between biosecurity improvement and technical and economical results on this farm.