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The aim of this study is to precise the conditions of farming which are linked to a high prevalence of salmonella

Materials and Methods

208 farrow-to-finish pig farms and 109 fattening pig farms.

Prevalence of salmonella was set from 42 samples of meat juice per farm taken at 3 different slaughtering days.

Questionnaires enabled to collect information about potential risk factors.

Statistic analysis conducted with a logistical regression model.

Results and discussion

In farrow-to-finish farms there are 14 risk-factors and only 2 in fattening farms.

In farrow-to-finish herds, farming conditions related to salmonella prevalence are:

- **pig health farm status:** clinical events in quarantine, PRRS or PMWS clinical signs at the post-weaning stage;
- **veterinary treatments:** antibiotics on farrowing sows, systematic antibiotic treatments during the period of the second age alimentation, number of antibiotics treatments during the fattening phase are riks-factors; antiparasite protocol in quarantine have a preventive effect;
- **liquid feeding** for pregnant sows and fattening pigs are positive factors;
- **drinking pipes** in post-weaning have a preventive effect;
- good practices regarding both pig **pre-loading and loading conditions** are positive factors;
- adapted **cleaning and disinfection** protocols are also positive factors.

In fattening farms, farming conditions identified are: **the number of breeding units supplying weaners and the number of antibiotics treatments at the fattening stage**



Table: Identified Risk Factors

Farrow-to-finish farms
Quarantine: no clinical signs
No antiparasite protocol in quarantine
Farrowing unit: sows systematic antibiotic treatment
PRRS clinical signs on post-weaning stage
PMWS clinical signs on post-weaning stage
No sucks in post-weaning unit
Systematic antibiotic treatment during the period of the second age alimentation
≥ 2 antibiotics treatments on fattening stage
Dry feed for pregnant sows
Dry feed for fattening pigs
Bad pre-loading and loading conditions
Cleaning farrowing unit: not put out little equipment
Cleandown time < 72 hours in post weaning units
No automatic soaking in fattening units
Fattening farms
≥ 2 breeding units supplying piglets
≥ 2 antibiotics treatments on fattening stage

