Comparison of antibody responses in serum from pigs inoculated with different doses of *Salmonella* Typhimurium and *Salmonella* Derby using three commercial ELISA test kits

Conclusion

The detection of antibodies due to infection with Salmonella spp. is dependent on:

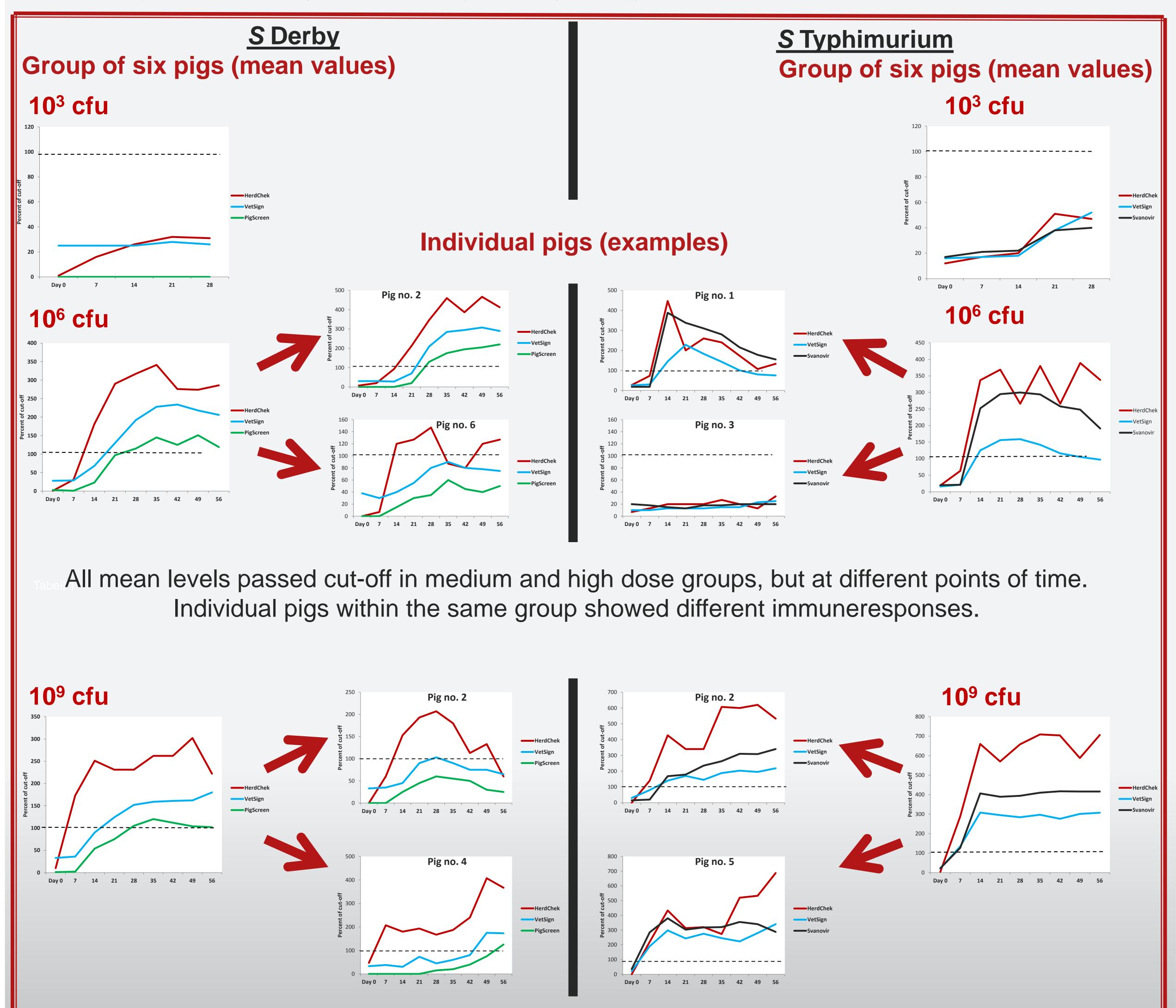
1) the serotype 2) the dose of exposure 3) the immune response of the individual pig 4) the test-kit used At individual level serology may fail to detect pigs exposed to common serotypes of Salmonella spp.

The aim of the study was to examine the use of serology for monitoring of salmonella infection in individual pigs.

Groups of six salmonella free pigs aged 10 weeks were orally infected with either S Typhimurium or S Derby in a low (0.65 x 103 CFU), medium (0.65 x 106 CFU) or high dose (0.65 x 109 CFU).

Blood samples were collected during eight weeks. The levels of antibodies in serum were analysed with different ELISA kits; VetSign™ Salmonella, Herdcheck® Swine Salmonella and Salmotype® Pig Screen or Svanovir®.

Results are presented in diagrams below as percentages compared to the cut off-value of each ELISA.





Julia Österberg, DVM, PhD and Per Wallgren, DVM, Prof. Dep. of Animal Health and Antimicrobial Strategies

NATIONAL VETERINARY INSTITUTE

post. SE-751 89 Uppsala, Sweden

phone. +46 18 67 40 00 fax. +46 18 30 91 62

e-mail. sva@sva.se web. www.sva.se



