

Retrospective study on the performance of piglets vaccinated with 3FLEX® in a Malaysia Pig farm



Z.H. Cheah, E. Cheah, P.Q. Lim, C.K. Yong, K.Y. Kam
Boehringer Ingelheim (Malaysia) Sdn Bhd.

INTRODUCTION

PRDC is still the major problem in Malaysia swine industry and contributing to huge economic losses to the swine practitioners. Today, most of the swine practitioner will vaccinate their piglets against these 3 major pathogens which are PRRSv, PCV2, and *Mycoplasma hyopneumoniae*. Multiple injections and handling stress together with excessive labour effort have become a very challenging task to the practitioners. The objective of this retrospective study was to evaluate the efficacy of Ingelvac 3FLEX® (mixture of Ingelvac® PRRS MLV, Ingelvac CircoFLEX® and Ingelvac MycoFLEX® into one injection) vaccination scheme compare to conventional program in porkers under the field condition.

MATERIALS AND METHODS

The study was done in a 700-sows farrow-to-finish farm. The sow herd was PRRS stable and mass vaccinated against PRRS routinely every 3 months. Piglets were vaccinated against Ingelvac® PRRS MLV at day 14 and Ingelvac CircoFLEX® at day 21. From 1 Jan 2016, they started to use 3FLEX® (mixture of vaccines with Ingelvac® PRRS MLV, Ingelvac CircoFLEX® and, Ingelvac MycoFLEX® into a single injection) from Boehringer Ingelheim in piglets around day 18. Comparison was made for a period of 8 months with Ingelvac 3FLEX® vaccination to the performance of the previous 8 months in terms of mortality rate in both nursery and finisher pigs. Due to a unique recording, cull sows are included in finisher mortality. Data was evaluated by using Statistical Process Control (SPC) chart (Minitab ver. 17).

RESULTS

Table 1: Study Design

Group	Vaccine program	Application period
Before 3FLEX®	Ingelvac® PRRS MLV @ day 14 + Ingelvac CircoFLEX® @ day 21	1.5.2015 – 31.12.2015
After 3FLEX®	3FLEX® (Ingelvac® PRRS MLV + CircoFLEX® + MycoFLEX®) @ day 18	1.1.2016 – 31.8.2016

Table 2: The result of mortality rate before and after 3FLEX®

	Before 3FLEX®	After 3FLEX®
Nursery mortality (%)	4.43	3.21
Finisher ¹ mortality (%)	1.37	1.16

¹ including cull sows

Figure 1: SPC Chart of nursery mortality (%) before and after vaccination.

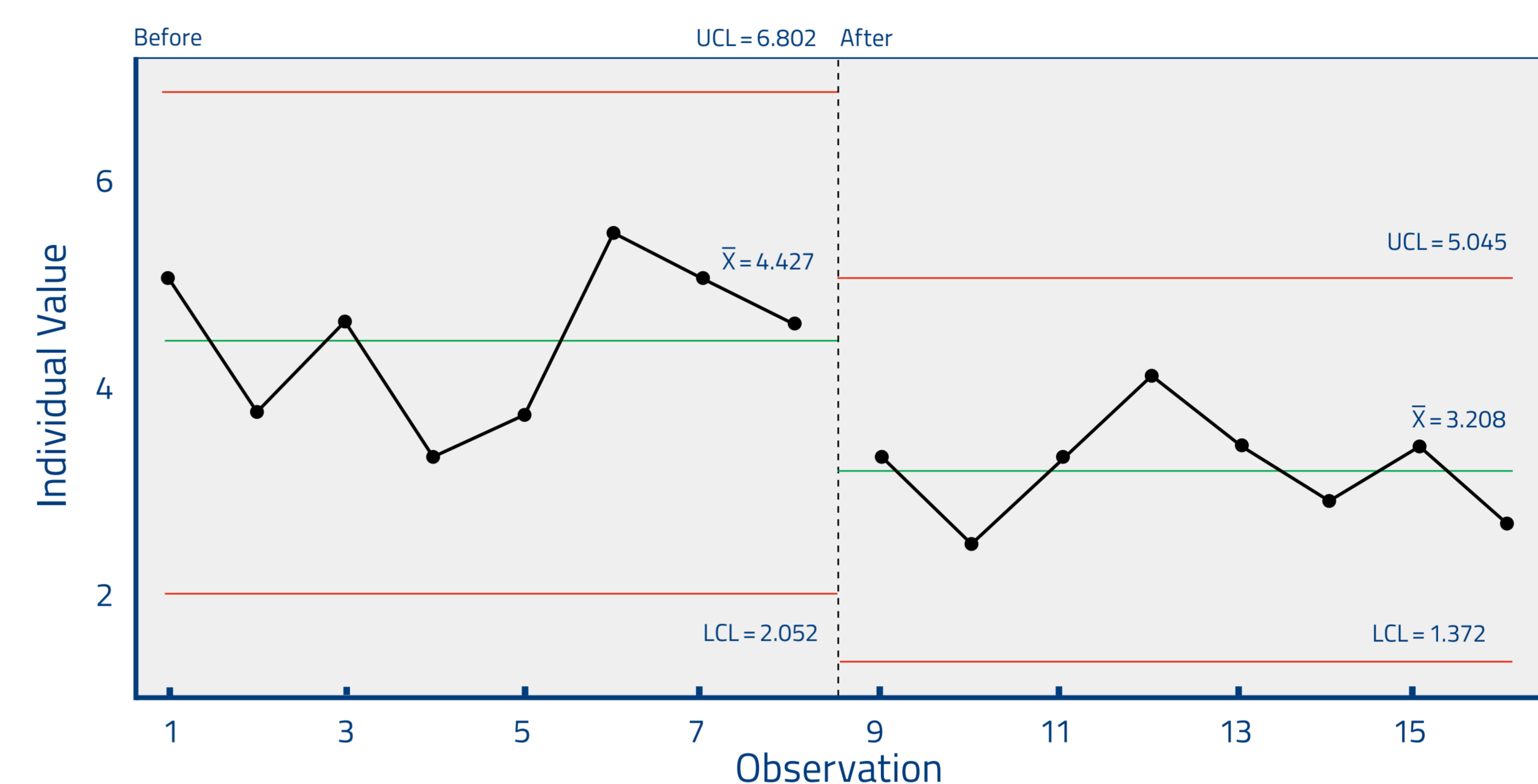
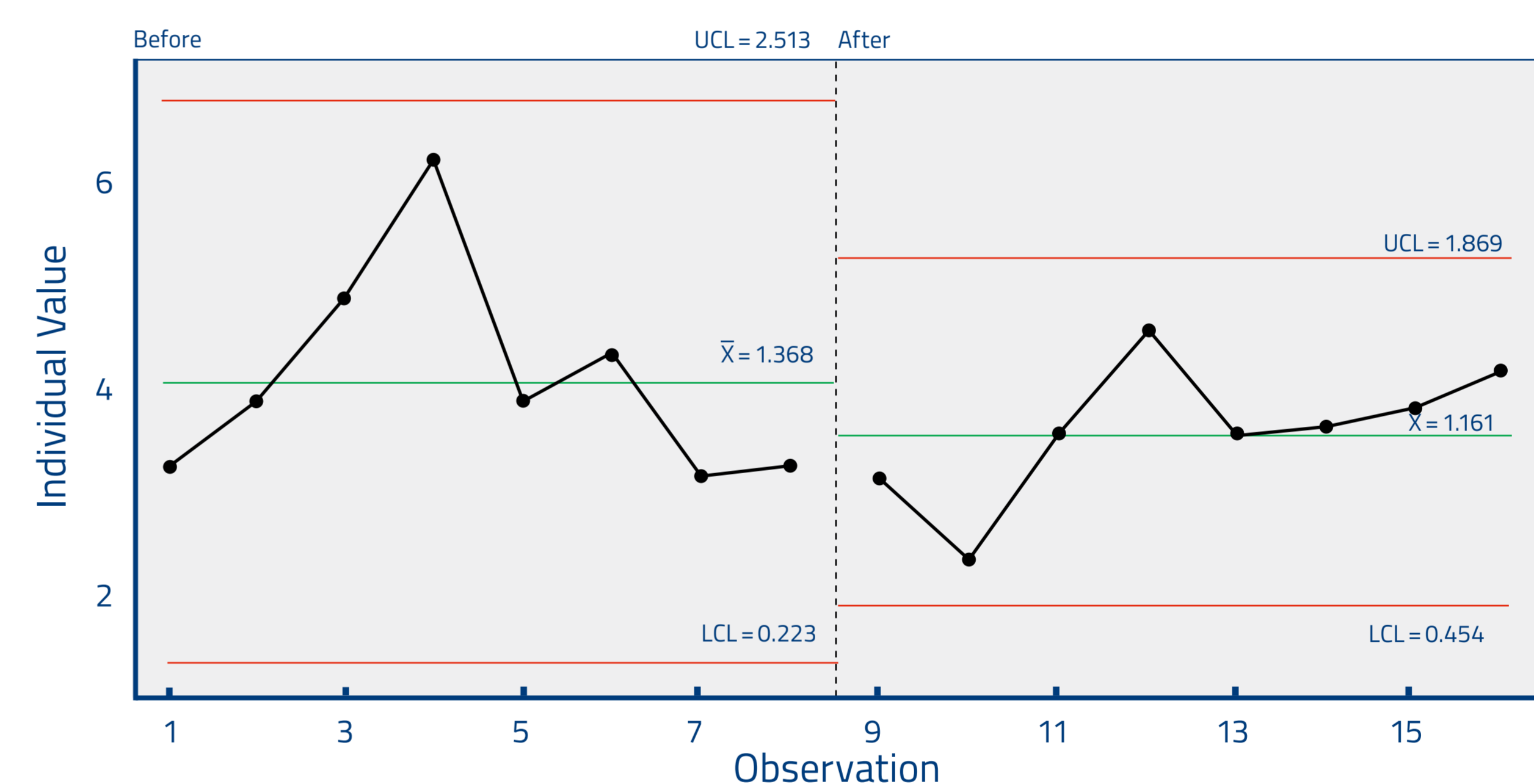


Figure 2: SPC Chart of finisher mortality (%) in the farm. (including cull sows)



The nursery mortality was reduced and variation was less in the period after vaccination. This trend was also seen in the finishing mortality. No adverse reaction was observed following vaccination with Ingelvac 3FLEX®.

DISCUSSION AND CONCLUSION

Vaccination with a single shot of Ingelvac 3FLEX® vaccine may potentially improve the health and performance of pigs by reducing mortality due to a reduction of handling and injection stress especially in nursery pigs. The control of M hyo by using Ingelvac MycoFLEX® in addition to Ingelvac® PRRS MLV and Ingelvac CircoFLEX®, improved the pig performance as well.

REFERENCES

1. Andy.B et al. (2014). Field efficacy study in weaned pigs with an inactivated PCV2 and M. hyopneumonia vaccines, and MLV PRRS vaccine administered as a trivalent mixture (3FLEX) in a 400 sow farrow-to-finish site.

