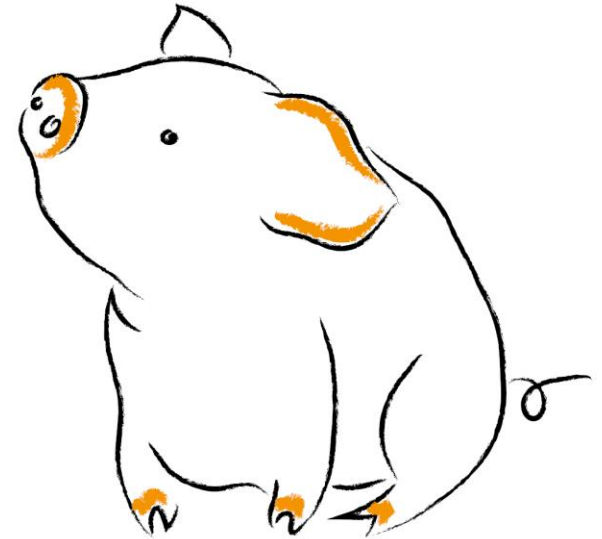


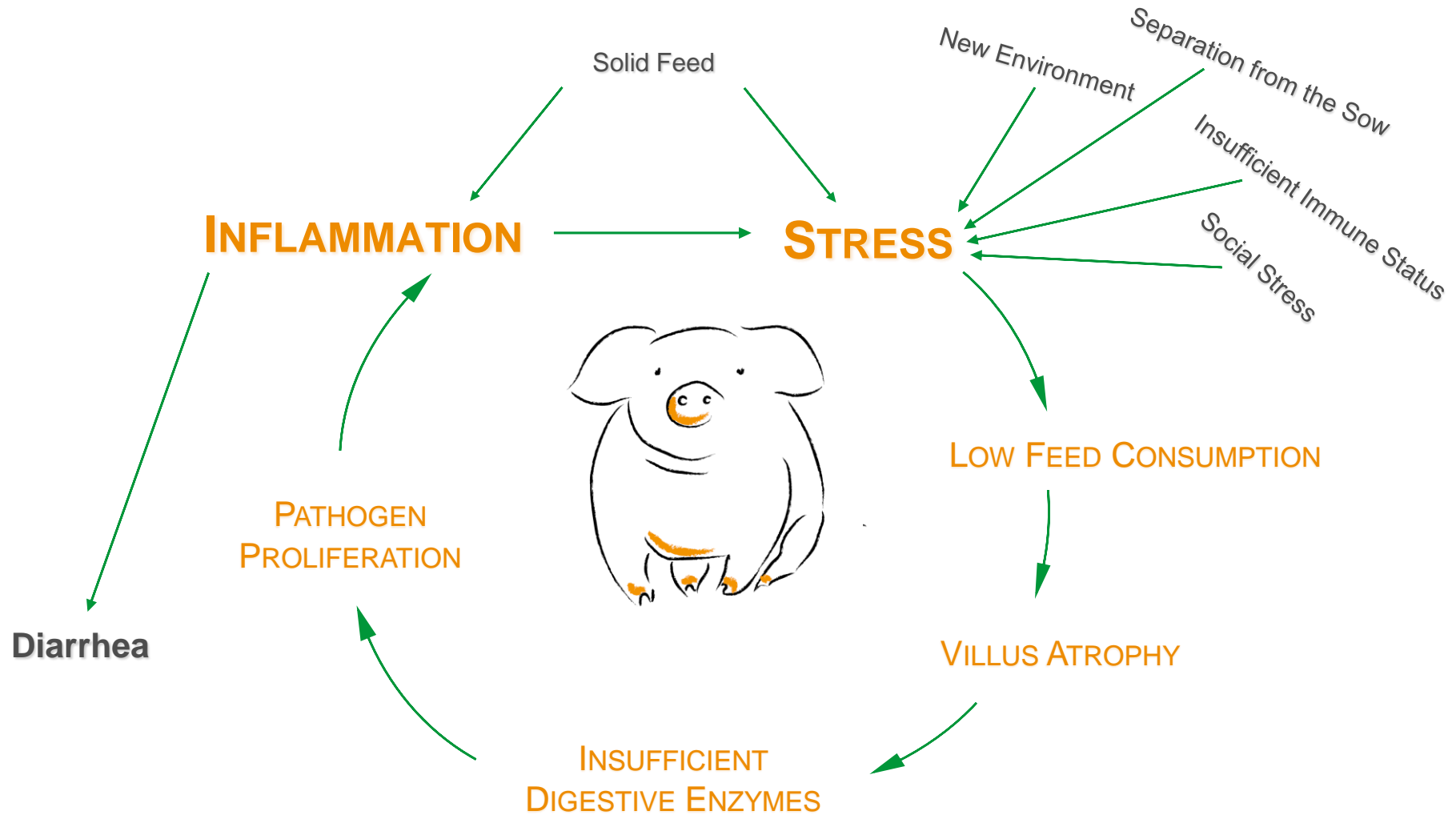
***MACLEAYA CORDATA* EXTRACT** AS AN ALTERNATIVE TO ZINC OXIDE TO PREVENT POST-WEANING DIARRHEA IN PIGLETS

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VALERIA ARTUSO-PONTE, DVM, PHD

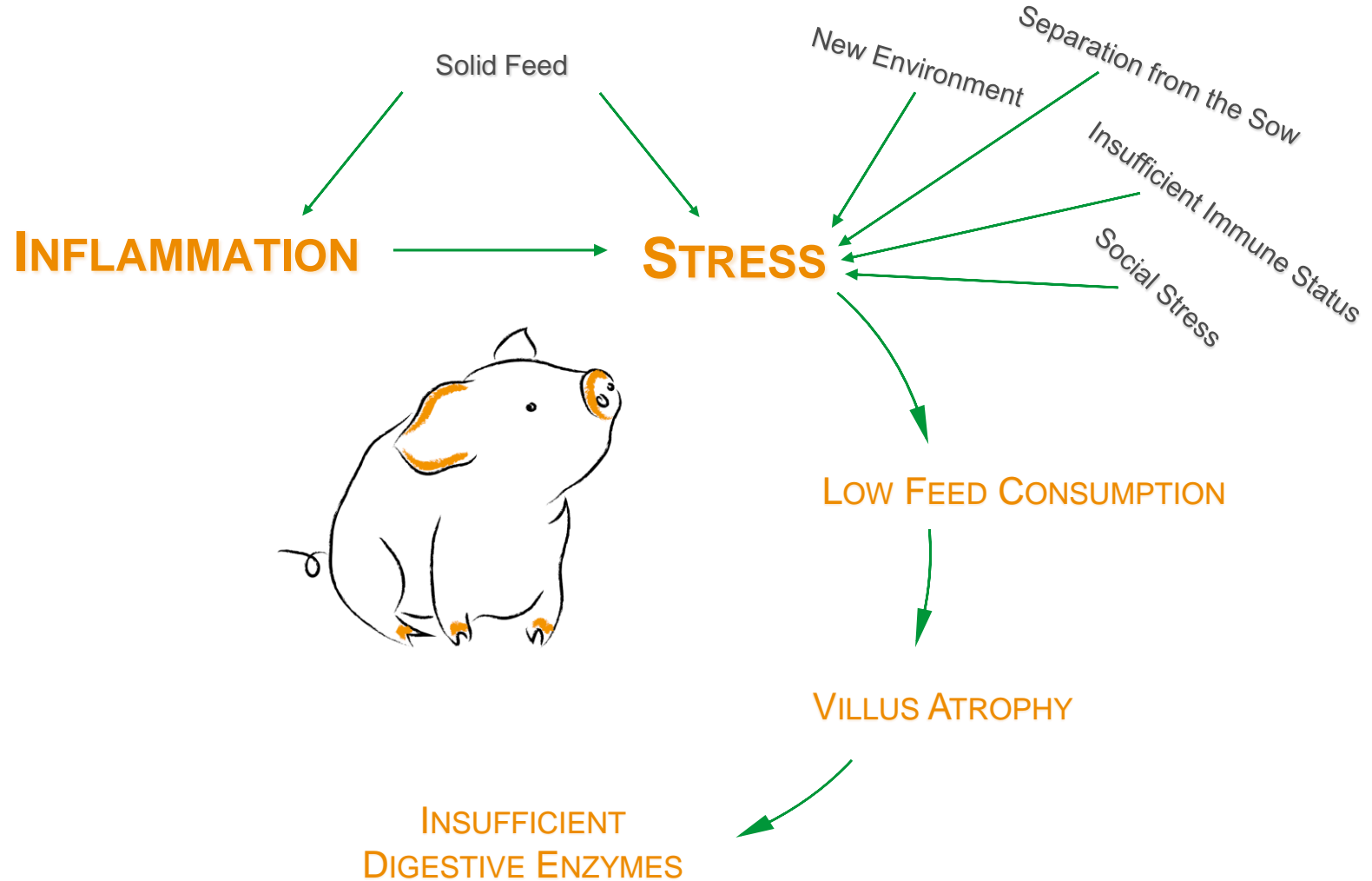


BACKGROUND & OBJECTIVES

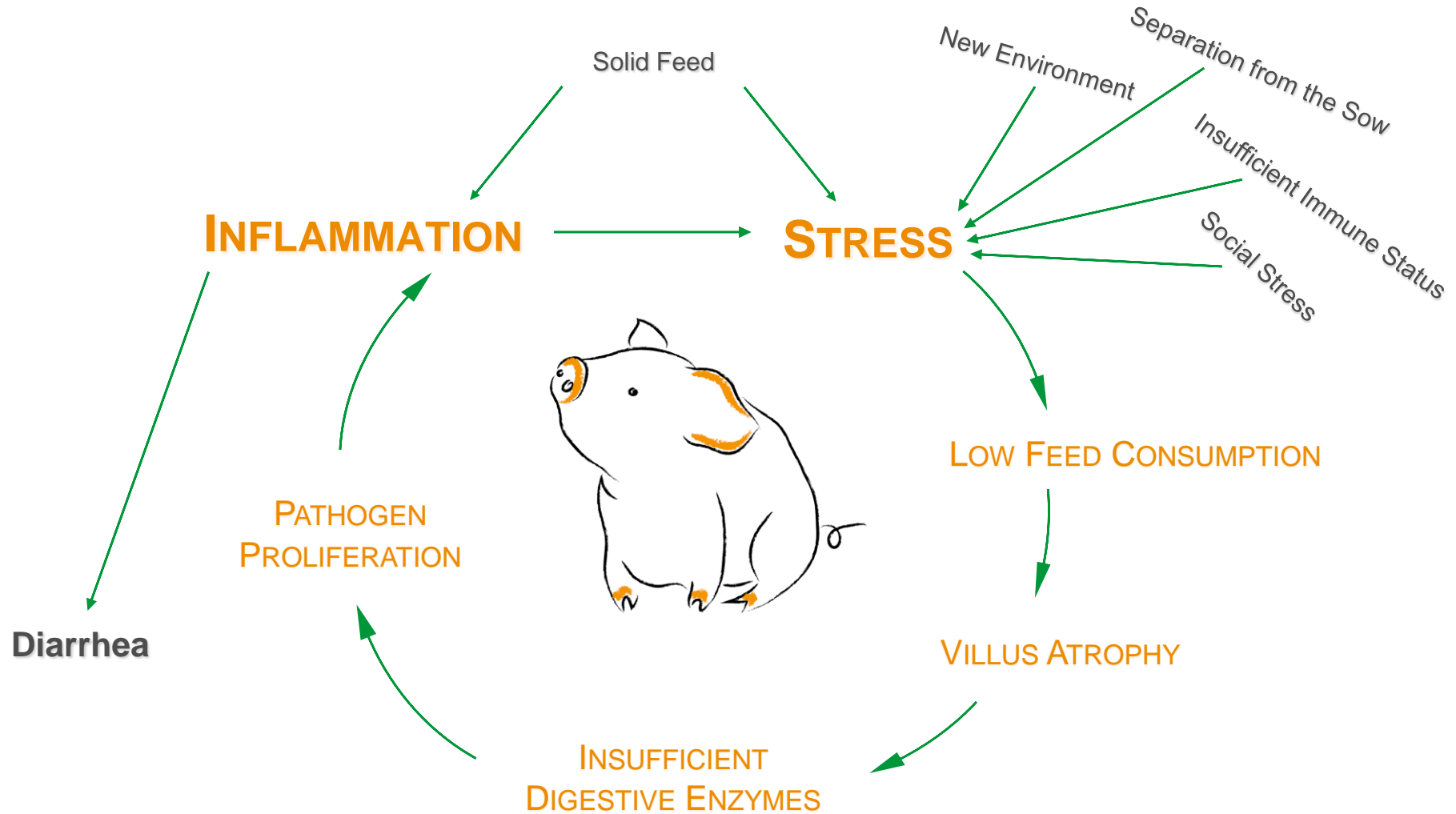
THE VICIOUS CYCLE OF POST-WEANING DIARRRHEA



THE VICIOUS CYCLE OF POST-WEANING DIARRRHEA



THE VICIOUS CYCLE OF POST-WEANING DIARRRHEA



THE VICIOUS CYCLE OF POST-WEANING DIARRRHEA

Solid Feed

New Environment
Separation from the Sow
Insufficient Immune Status
Social Stress



MATERIALS & METHODS

MATERIALS & METHODS

Animals

- 240 weaned piglets, 23 ± 2 days old, 6.64 kg BW
- 12 pens per treatment; 5 piglets per pen
- Study duration of 54 days

Treatments

- Negative control (**NC**)
- 3000 ppm Zinc Oxide (**ZnO**)
- 4000 ppm Organic Acid Blend (**OA**)
- 5.25 ppm Isoquinoline Alkaloids from *Macleaya cordata* extract (**IQ**)

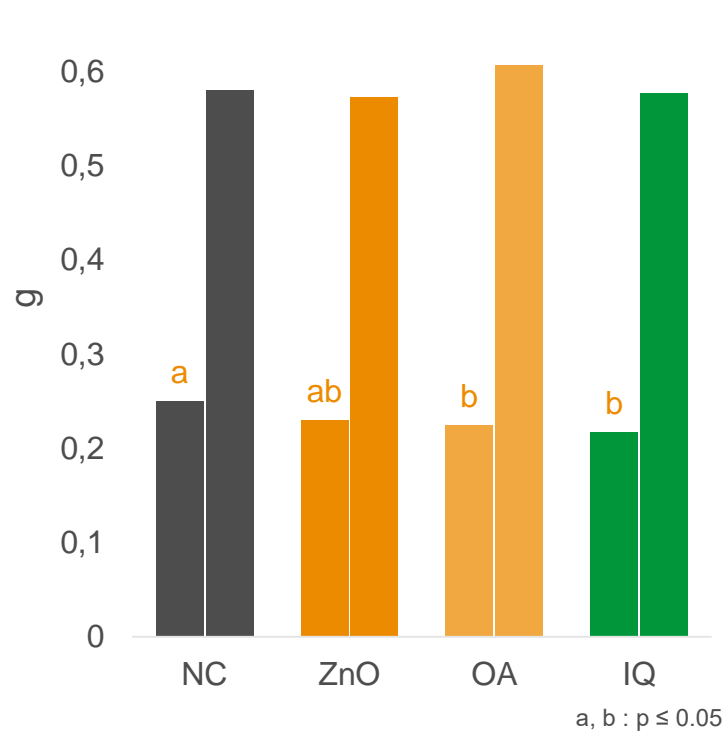
Data

- Performance parameters per phase (days 1-28 & days 29-54)
- Diarrhea cases & medication use

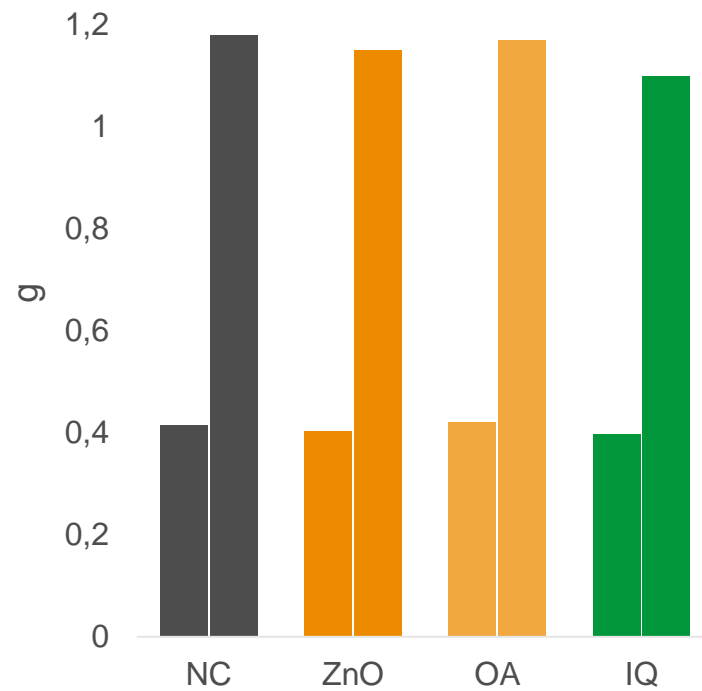
RESULTS & DISCUSSION

RESULTS – PERFORMANCE

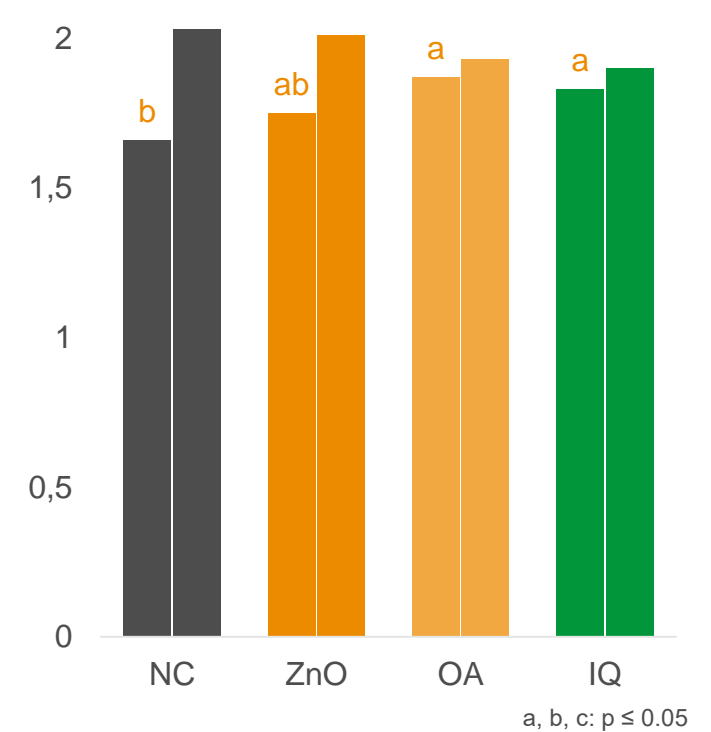
Average Daily Weight Gain
per treatment and phase



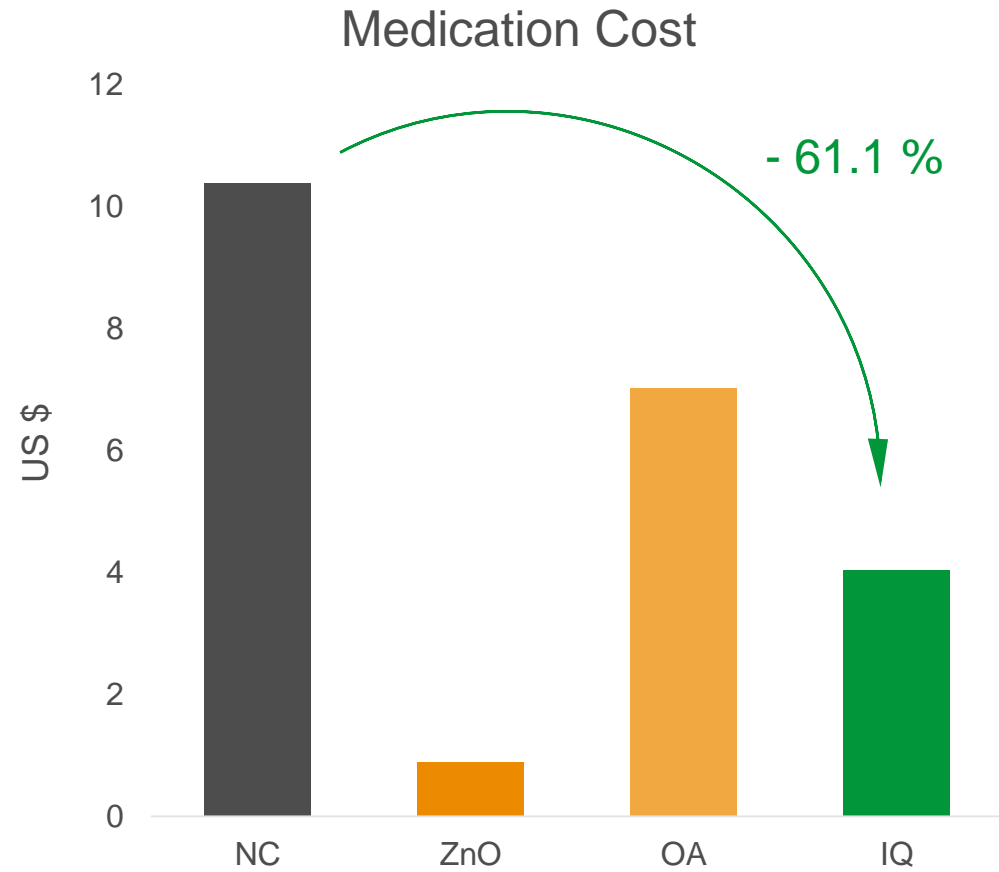
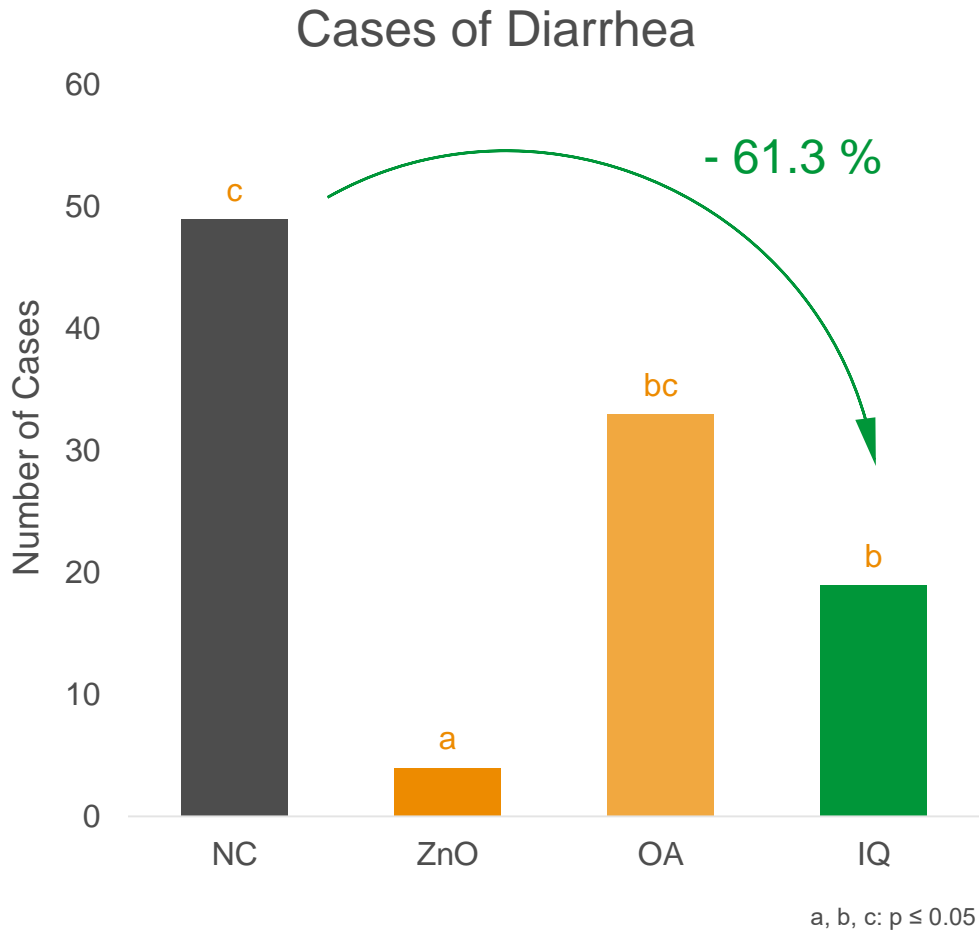
Average Daily Feed Intake
per treatment and phase



FCR
per treatment and phase



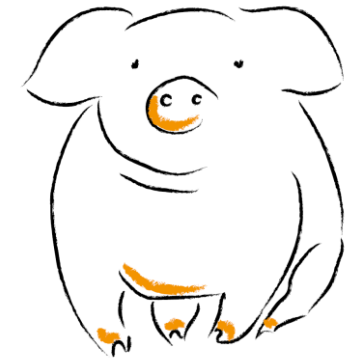
RESULTS - DIARRRHEA



DISCUSSION & CONCLUSION

- Zinc oxide proved to be the most effective measure against post-weaning diarrhea
- Isoquinoline alkaloids also significantly reduced the incidence of diarrhea and the medication cost

→ *Isoquinoline alkaloids can be a valuable contribution in strategies to reduce zinc oxide in the post-weaning period*



THANK YOU FOR YOUR ATTENTION!

