

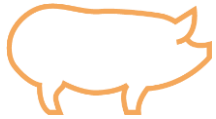
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Porcilis ® Lawsonia ID – One More Tool To Prevent Ileitis

Dr. Stephan von Berg, Global Technical Director PigCare
MSD Animal Health

Lawsonia intracellularis

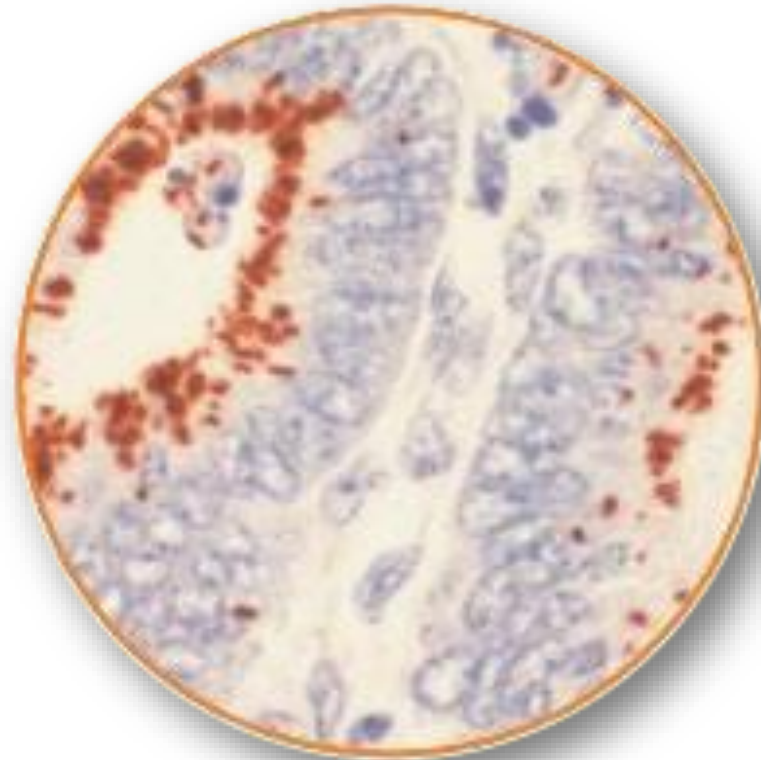


- Cause of ileitis in pigs, also called **PPE** (acute form) or **PIA** (chronic form)

PPE = Porcine Proliferative Enteropathy

PIA = Porcine Intestinal Adenomatosis

- Obligate **intracellular bacterium**
- Needs other cells to grow and multiply; **like a virus**



Ileitis

~ \$22/marketed pig

⤴ FCR 7%

⤴ ADG 11%

⤴ Mortality – up to 24%

Porcilis ® Lawsonia ID

Intradermal using IDAL

↓ Intestinal lesions

↓ Bacterial shedding

↓ Mortality

↓ Weight loss



Flexible use



Porcilis Lawsonia ID in ID Solvent



Porcilis Lawsonia ID in Porcilis PCV ID



Porcilis[®] Lawsonia ID

- + • Onset of immunity: 4 weeks pv



Duration of Immunity: 21 weeks pv

Not impacted by antibiotic treatment programs



DATA

RESEARCH

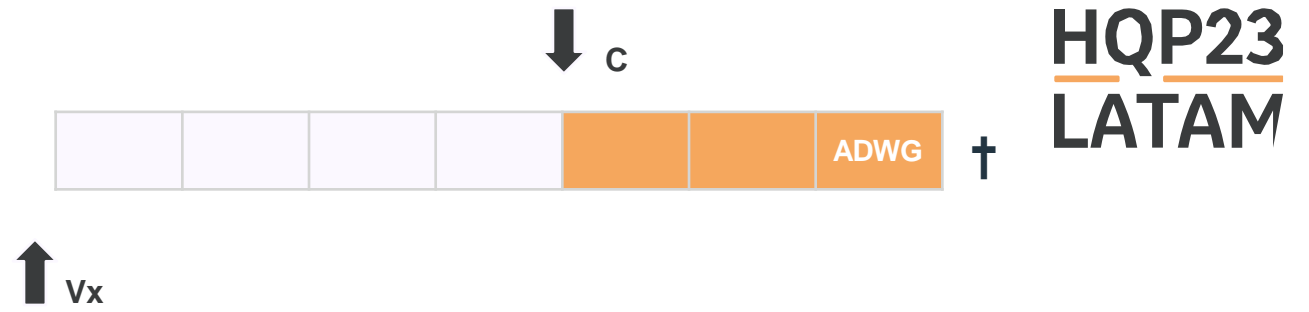
Open Access

Efficacy of a novel intradermal *Lawsonia intracellularis* vaccine in pigs against experimental infection and under field conditions



A. A. C. Jacobs* , F. Harks, R. Pauwels, Q. Cao, H. Holtslag, S. Pel and R. P. A. M. Segers

Onset of immunity (OOI)



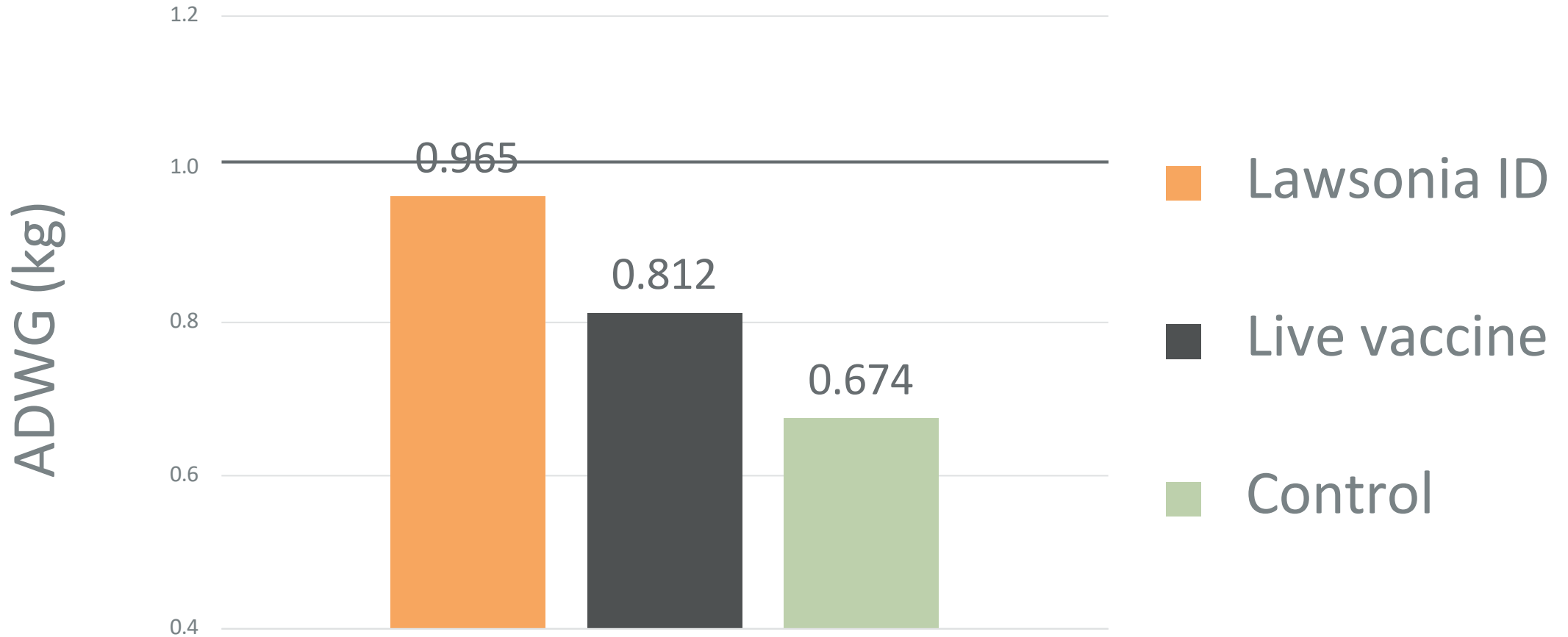
Vaccine	n	Diarrhea score (d 13-21)	ADWG g/day (d 13-20)	PCR Faeces (d 21)	PCR ileum mucosa (d 21)	Macroscopic ileum lesion score (d 21)	Microscopic IHC score (d21)
Porcilis <i>Lawsonia</i> ID	25	0.3	956*,&	0*,&	0.03*,&	0.6*,&	0.1*,&
Live vaccine [#]	25	0.2	812	0.77	0.50	61	3.4*
Controls	25	0.5	674	0.73	0.66	68	5.7

commercially available live attenuated vaccine
 * **p<0.05 compared to control group**
 & **p<0.05 compared to live attenuated vaccine**

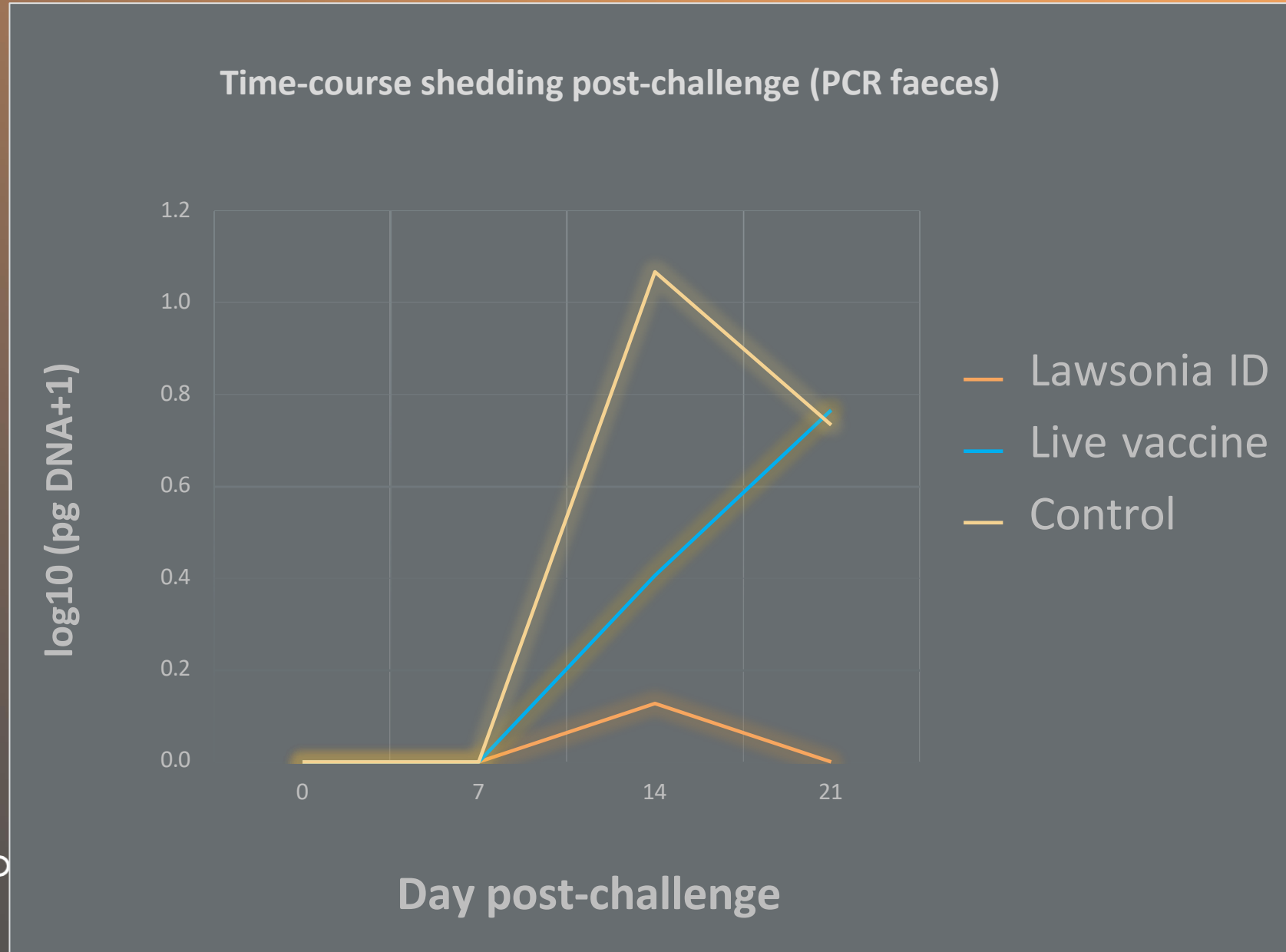
Source: Jacobs et al., Porcine Health Management, (2020) 6:25

Onset of immunity (OOI)

ADWG 13-20 post-challenge



Onset of immunity (OOI)



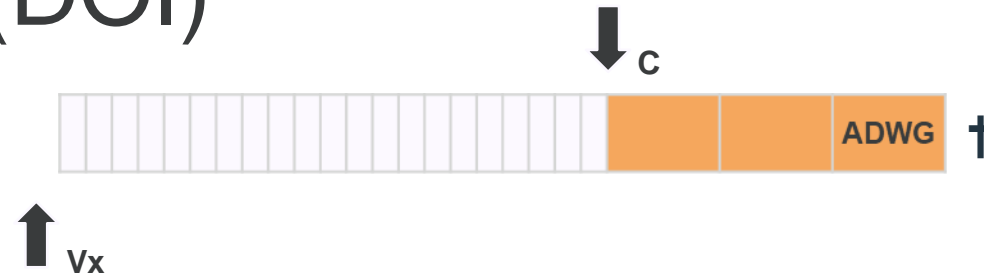
More Data?



Duration of immunity (DOI)

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age 3w: Intradermal vaccination
age 24w: *Lawsonia* challenge

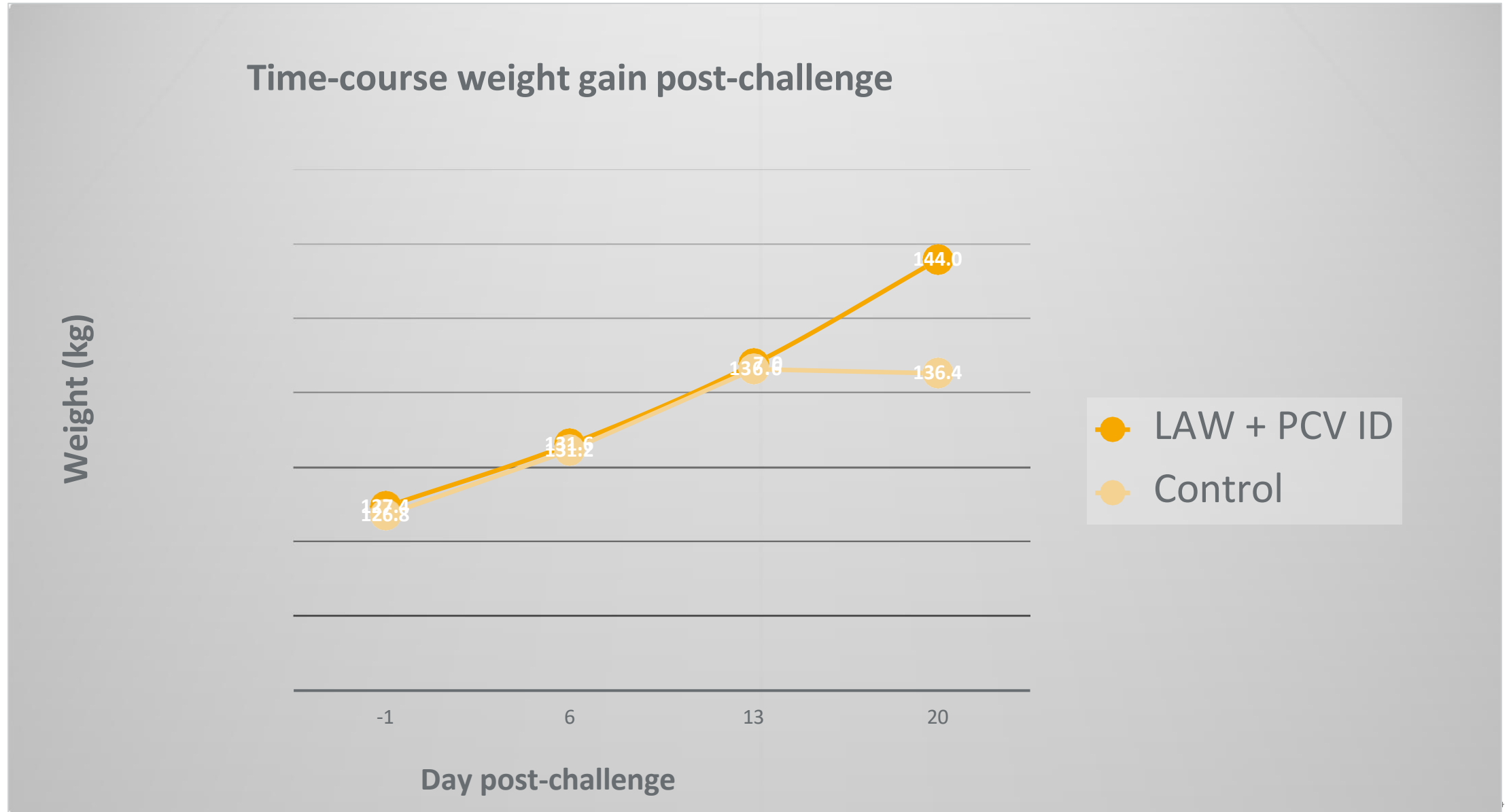


Vaccine	n	Diarrhea score (d 13-21)	ADWG g/day (d 13-20)	PCR Faeces (d 21)	PCR ileum mucosa (d 21)	Macroscopic ileum lesion score (d 21)	Microscopic IHC score (d21)
Lawsonia + PCV ID	25	1.3*	1001*	0.71*	0.19*	129*	2.9*
Controls	25	3.8	-139	1.90	0.54	241	7.7

*p<0.05 compared to control group

Source: Jacobs et al., Porcine Health Management, (2020) 6:25

Duration of immunity (DOI)



Field Study

(Feb 2018 – Jan 2019)

% mortality: *Lawsonia* associated and total

Vaccine	<i>Lawsonia</i> associated mortality (%)	Total mortality (%)
Porcilis® <i>Lawsonia</i> ID	0.45*	1.43*
Controls	1.65	2.63


*p<0.05 compared to control group

Historic comparison is underestimation as only half of the piglets were vaccinated

Historic comparison before and after vaccination

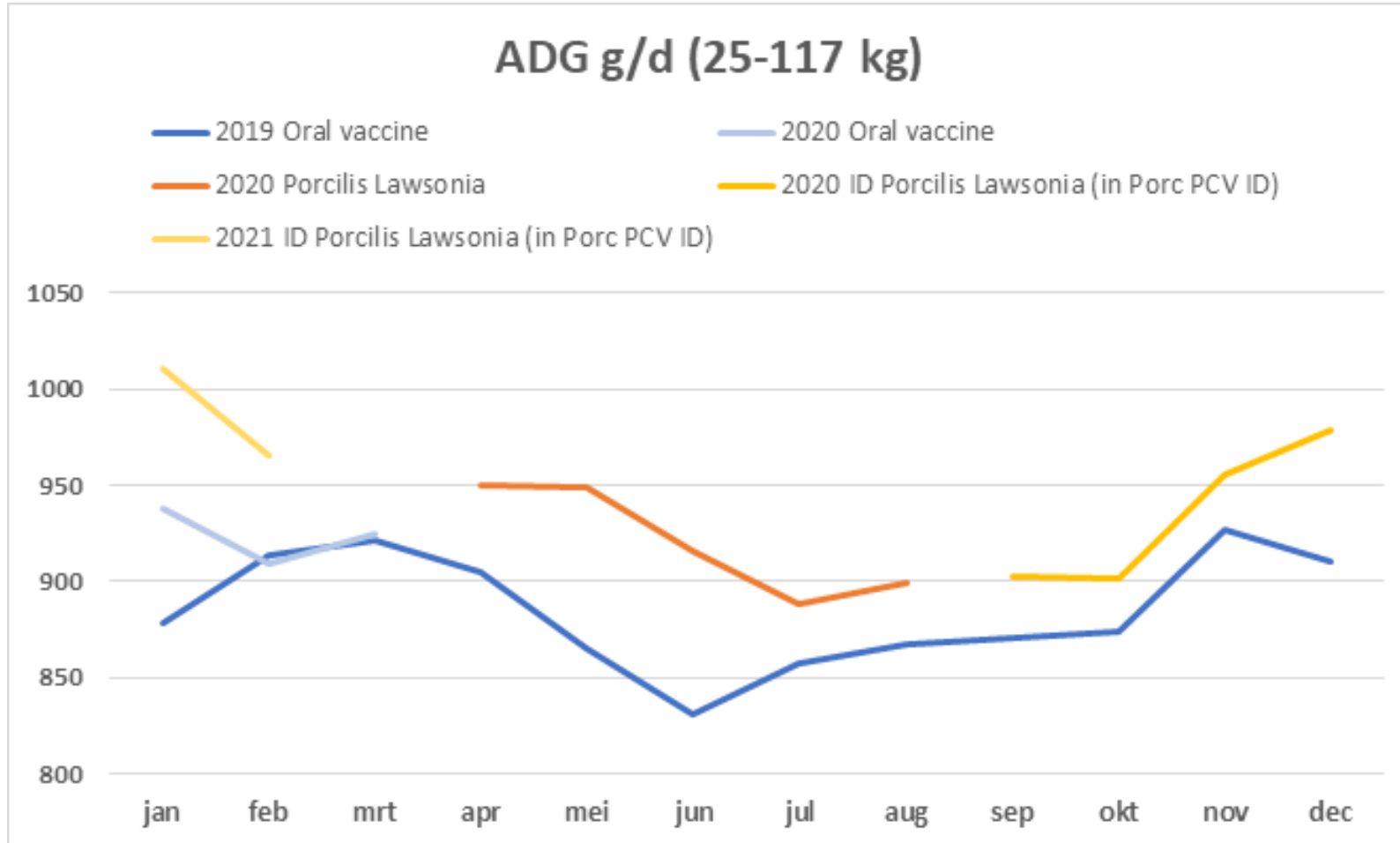
Parameter	Before vaccination	After vaccination
ADWG (gram/day)	843	859
FCR (kg feed/kg body weight)	2.41	2.31

Source: Jacobs et al., Porcine Health Management, (2020) 6:25

A close-up photograph of several piglets in a field. The piglets are white with pink ears and snouts. They are looking towards the camera. The background is a blurred field.

What
happens
in the
field?

Field experience with Porcilis® Lawsonia ID



Field experience with Porcilis® Lawsonia ID



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	Apr19-Aug19 Drinking water	Apr20-Aug20 Porcilis Law IM	Difference		Sep19-Feb20 Drinking water	Sep20-Feb21 Porcilis Law ID	Difference
ADWG	865	920	+55	ADWG	908	956	+48
FCR	2,75	2,68	-0,07	FCR	2,79	2,70	-0,09
Mortality %	2,3	1,9	-0,4	Mortality %	2,1	1,7	-0,4

○ **2020: Lower veterinary and treatment costs compared to 2019; antibiotic use reduced by 90%.**



Wertebrock et al., 2022

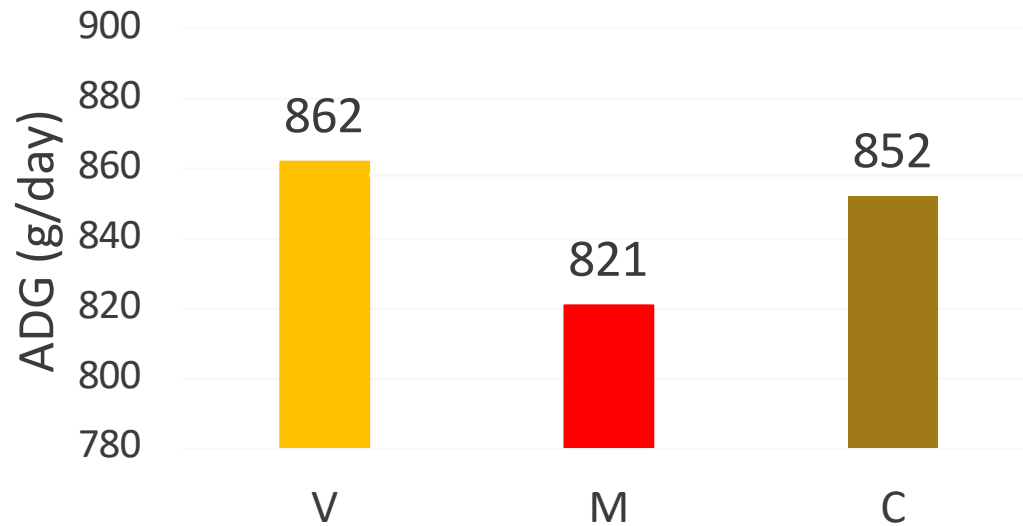


Field experience with Porcilis® Lawsonia ID

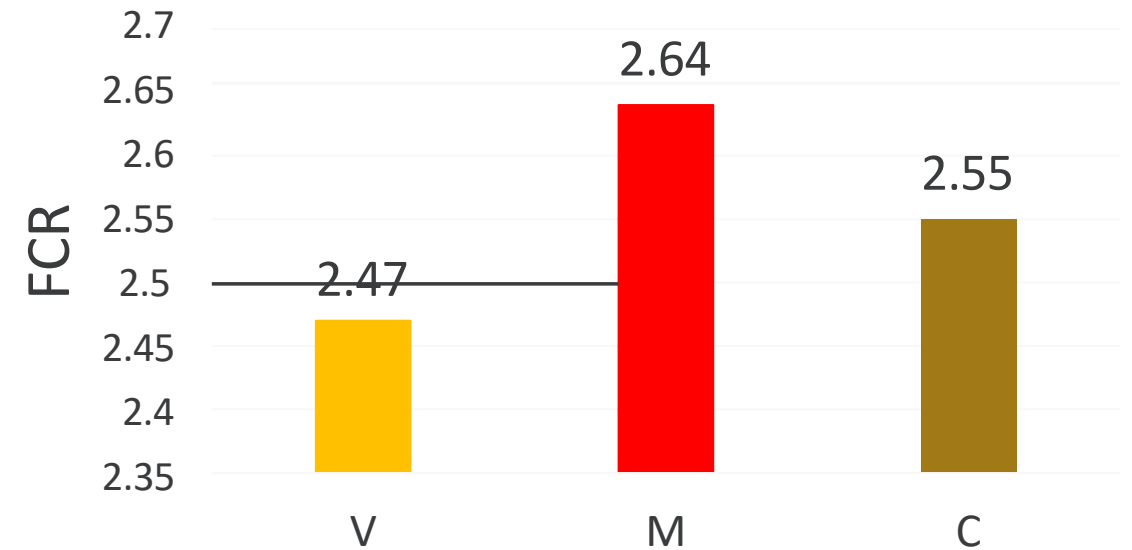
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ADG (g/day)



FCR (kg)



V = Vaccinated
M = Medicated
C = Control

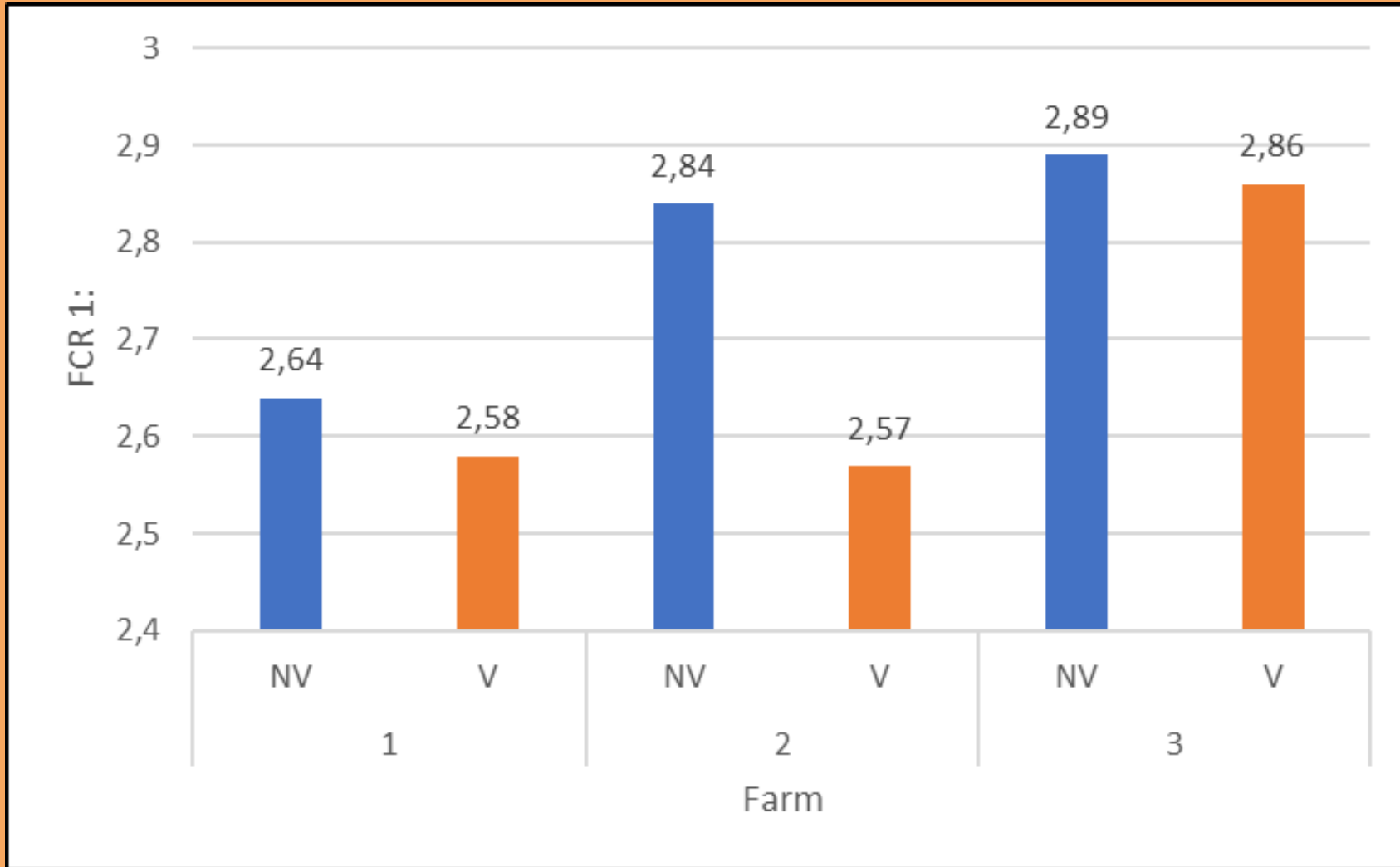
Field experience with Porcilis® Lawsonia ID



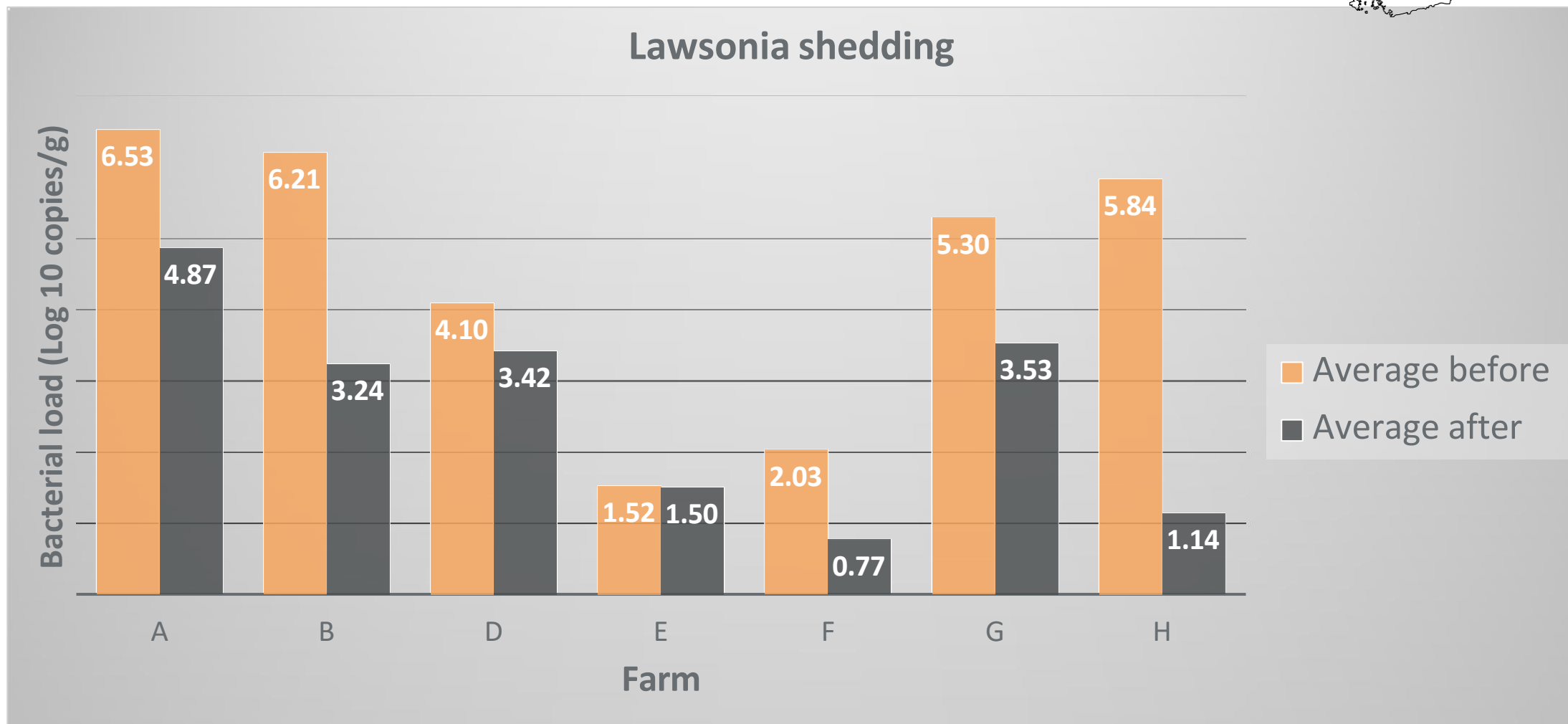
	Farm 1	Farm 2	Farm 3
Feed costs (€/100 kg)	26.02	27.66	28.88
Financial benefit (€/pig) between non vaccinated and intradermally vaccinated pigs due to...			
... feed costs	-1.53	-7.35	-0.82
... antibiotic treatment	-0.41	+0.30	-0.13
... animal losses	-0.45	+0.44	+0.15
Total benefit per pig	-2.38	-6.60	-0.80

Field experience with Porcilis® Lawsonia ID

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Field experience with Porcilis Lawsonia ID



Porcilis® Lawsonia ID = +\$/marketed pig

↑ ADG

↓ FCR

↓ Mortality

IDAL Way benefits

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Thank you!