

# Reduction of Pseudorabies Incidence Using Ingelvac® Aujeszky MLV in two Malaysian Herd



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## INTRODUCTION

Sporadic Aujeszky's disease outbreaks have occurred and reported in different parts of Malaysia in year 1998 despite vaccination.<sup>1</sup> The latest prevalence report shows Aujeszky's disease in Malaysian farm is 46.15%.<sup>2</sup> Most Malaysian farmers are practising PR vaccination in breeding herd only while the grower-finisher are left unvaccinated.

This study shows the efficacy of Ingelvac® Aujeszky MLV in reducing the incidence of pseudorabies virus in 2 farrow-finish herds in Malaysia.

## MATERIALS AND METHODS

This study involves 2 herds located in the most dense pig raising areas in Malaysia.

Herd 1: 300 sows, previously used PRV Inactivated vaccine, started to use Ingelvac® Aujeszky MLV in September, 2014 and period of comparison for 6 months and 12 months

Herd 2: 800 sows, previously used PRV modified live vaccine, started to use Ingelvac® Aujeszky MLV in Nov, 2014 and period of comparison for 6 months and 12 months.

**Table 1: Pseudorabies vaccination program before and after the use of Ingelvac® Aujeszky MLV.**

Stage	Herd 1		Herd 2	
	Before	After	Before	After
Sows	93 days gestation	Mass 3 x / year	93 days gestation	Mass 3 x / year
Grower-Finisher	None	Day 1 – 3 (IN)	Day 70 (IM)	Day 1 – 3 (IN)

The percentage of seropositive before and after intervention was evaluated with IDEXX® PRV/ADV gI AB test kit.

## RESULTS AND DISCUSSION

After using Ingelvac® Aujeszky MLV, the percentage of animals tested seropositive for pseudorabies gE antibody declined in both herds.

**Table 2: Percentage of animals seropositive in Herd 1 Before and After the use of Ingelvac® Aujeszky MLV.**

	Before	After		Difference	
		6 Mths	12 Mths	6 Mths	12 Mths
Breeding Herd	36% (n = 11)	13% (n = 15)	0% (n = 15)	-64%	-100%
Grower-Finisher					
12 weeks	25% (n = 4)	0% (n = 5)	0% (n = 5)	-100%	-100%
16 weeks	0% (n = 5)	0% (n = 5)	0% (n = 5)	-100%	-100%
20 weeks	0% (n = 5)	0% (n = 5)	0% (n = 5)	-100%	-100%

**Table 3: Percentage of animals seropositive in Herd 2 Before and After the use of Ingelvac® Aujeszky MLV.**

	Before	After		Difference	
		6 Mths	12 Mths	6 Mths	12 Mths
Breeding Herd	60% (n = 15)	40% (n = 15)	20% (n = 15)	-33%	-66,7%
Grower-Finisher					
12 weeks	60% (n = 5)	0% (n = 5)	0% (n = 5)	-100%	-100%
16 weeks	0% (n = 5)	0% (n = 5)	0% (n = 5)	-100%	-100%
20 weeks	0% (n = 5)	0% (n = 5)	0% (n = 5)	-100%	-100%

## CONCLUSION

Ingelvac® Aujeszky MLV drastically reduced the incidence of pseudorabies gE seropositive animals in both herds. Intranasal route vaccination using Ingelvac® Aujeszky MLV successfully reduced the percentage of gE sero-positive in grower-finisher in both Malaysian herds.

## REFERENCES

1. Jasbir, Singh (1998) Epidemiology of Aujeszky's disease in Pigs in Malaysia
2. Yong, CK (2015) Sero-prevalence Status of Pseudorabies In Malaysia

