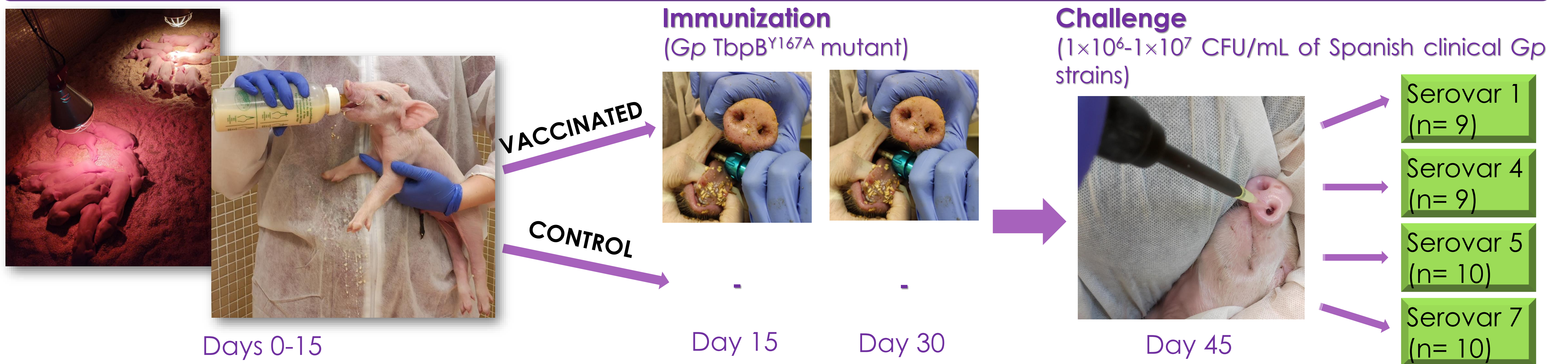


Introduction

Glaesserella parasuis (*Gp*) is a Gram-negative bacillus which causes Glässer's disease (GD), being responsible for high morbidities and/or mortalities in pig intensive farms (1). Vaccination is considered the best choice to prevent and control GD (2). This study tested the effectiveness of a vaccine based on a *Gp* TbpB^{Y167A} mutant in colostrum-deprived piglets challenged with four Spanish clinical isolates each belonging to one serovar.

Materials and Methods



Results

	Serovar 1	Serovar 4	Serovar 5	Serovar 7	
Non-vaccinated control piglets	Peritonitis	100% (Fig. 1)	50%	100%	
	Pericarditis	100%	50%	100% (Fig. 3)	
	Arthritis	50%	50% (Fig. 2)	100%	
	Gallbladder edema	100%	50%	60%	
	Lung hemorrhages	-	-	-	60% (Fig. 4)
	Spontaneous death	100% (4/4)	100% (4/4)	100% (5/5)	100% (5/5)
<i>Gp</i> TbpB ^{Y167A} vaccinated piglets	Peritonitis	40% (Fig. 5)	40%	20%	
	Pericarditis	40%	40%	- (Fig. 7)	
	Arthritis	40%	- (Fig. 6)	20%	
	Gallbladder edema	20%	20%	40%	
	Lung hemorrhages	-	-	-	20% (Fig. 8)
	Spontaneous death	60% (3/5)	- (0/5)	20% (1/5)	40% (2/5)

Conclusion

The effectiveness of TbpB^{Y167A}-based vaccine varied according to the serovar, but always decreasing gross lesions in vaccinated pigs.

References

- Oliveira *et al.* (2004) *Vet. Microbiol.* 99, 1-12.
- Zhao *et al.* (2017) *Can J Vet Res.* 81(1), 22-27.

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