

Porcilis® PCV M Hyo

protects pigs against heterologous challenge with PCV2d

Porcilis PCV M Hyo is a Mhyo and PCV2a non-infectious capsid protein combination vaccine.

Should we worry about PCV2d?

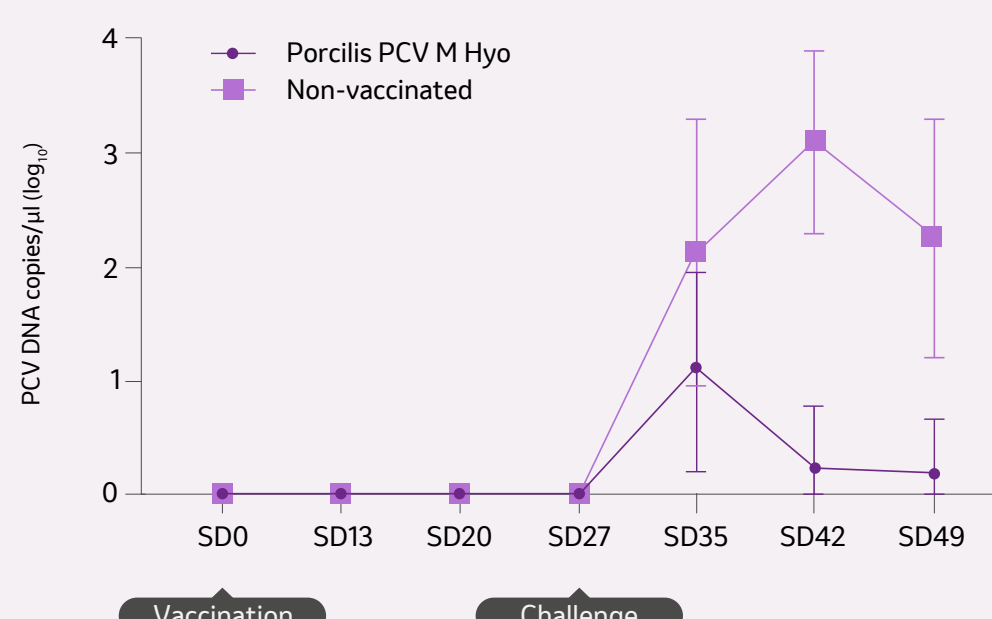
There are nine known (PCV2a - PCV2i) genotypes of PCV2 and in recent years PCV2d has been the predominant type in most swine producing countries¹

The emergence of PCV2d is a potential contributing factor to PCV2 instability in sow herds:

- 01 PCV2d may be more pathogenic compared to other genotypes.
- 02 Immunity generated against other genotypes may not completely prevent PCV2d infection.

Do vaccines based on PCV2a strains provide sufficient protection against PCV2d strains?

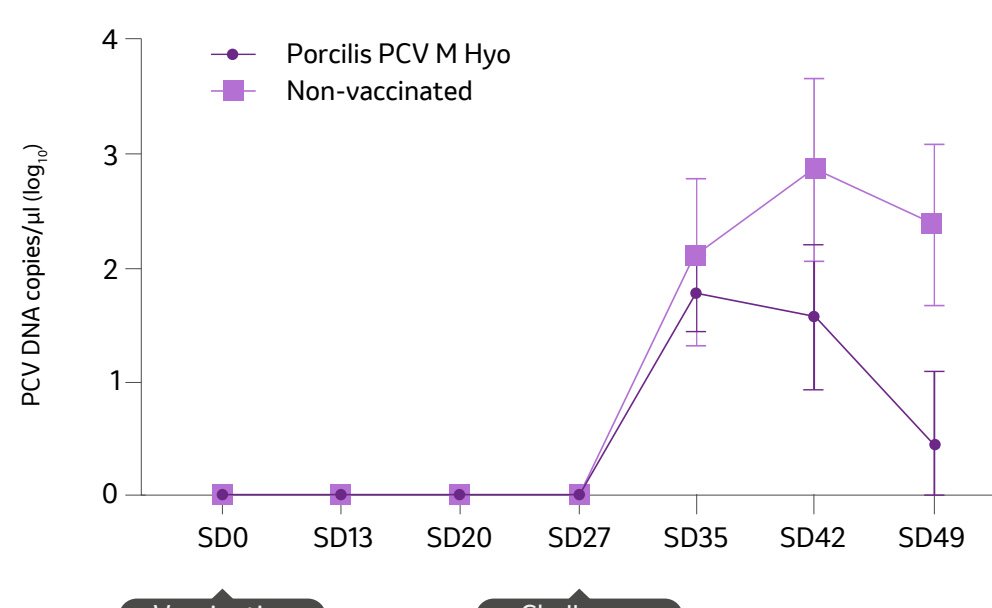
Porcilis PCV M Hyo reduces PCV2d viremia after challenge



Viral load in sera from pigs vaccinated with Porcilis PCV M Hyo vs non-vaccinated pigs.

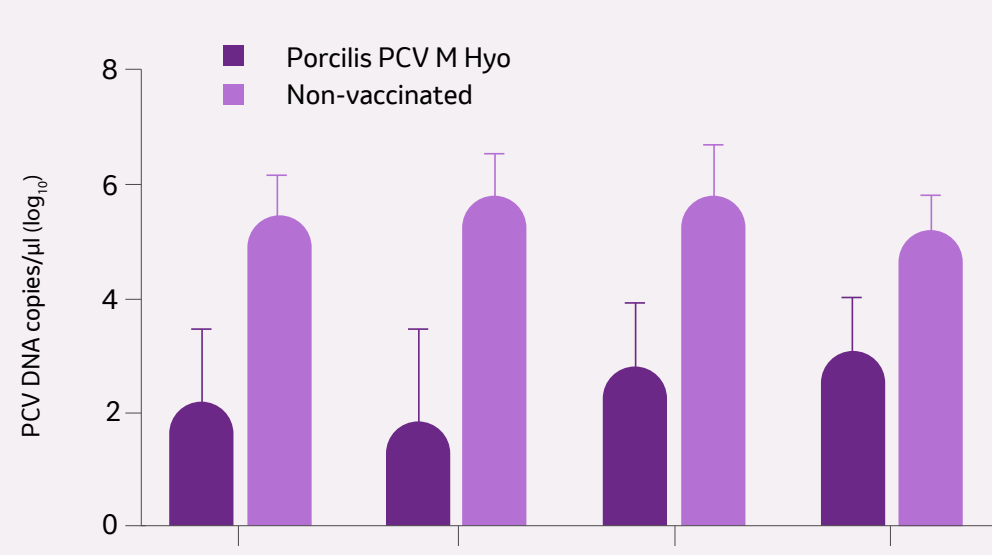
Three-week old piglets were vaccinated or kept unvaccinated and challenged with PCV2d 4 weeks after vaccination. All pigs were euthanized and necropsied 3 weeks after challenge.

Porcilis PCV M Hyo reduces PCV2d shedding in feces after challenge



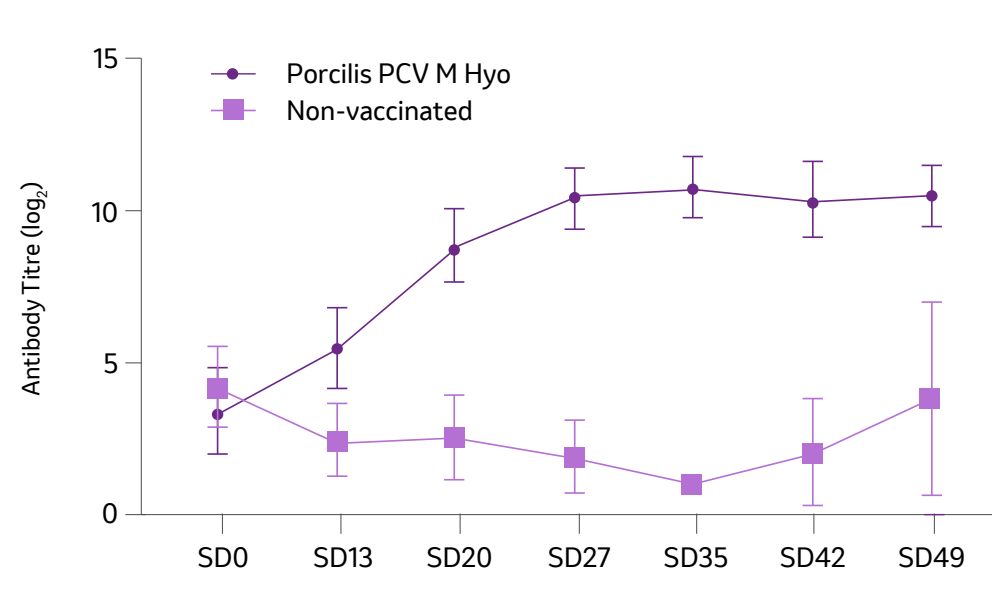
Viral load in rectal swabs from pigs vaccinated with Porcilis PCV M Hyo vs non-vaccinated pigs.

Porcilis PCV M Hyo reduces PCV2d load in different body tissues after challenge



Viral load in inguinal and mesenteric lymph nodes, tonsils and lungs from pigs vaccinated with Porcilis PCV M Hyo vs non-vaccinated pigs.

Porcilis PCV M Hyo stimulates high and consistent PCV2-antibody titers



PCV2-antibody titers from pigs vaccinated with Porcilis PCV M Hyo vs non-vaccinated pigs.

Keypoints

- 01 Vaccination with the **PCV2a-based Porcilis PCV M Hyo vaccine** protects against the heterologous challenge with PCV2d.
- 02 In the event of a challenge with PCV2d, Porcilis PCV M Hyo vaccine:
 - Reduces PCV2d viremia.
 - Reduces PCV2d shedding in feces.
 - Reduces PCV2d load in lymph nodes, tonsils and lung.

1. Franzo G, and Segalés J. Porcine Circovirus 2 Genotypes, Immunity and Vaccines: Multiple Genotypes but One Single Serotype. MDPI. 2020

Ref.: van Swaay A. et al. Efficacy of the Porcilis® PCV M Hyo vaccine in pigs against heterologous challenge with a PCV2d strain. APVS. 2019