

SWINE HEALTH

Title: Determination of the virulence of an emerging porcine parvovirus (PPV2) and its possible interaction with PCV2 in PCVAD – **NPB - #13-004**

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Scientific Abstract

The objective of this study was to characterize a novel PPV previously designated as PPV2 in pigs and to determine the interaction of PPV2 and PCV2. Colostrum-deprived pigs experimentally infected with PPV2 did not show any clinical signs or lesions despite developing PPV2 viremia and having high tissue levels of PPV2 DNA. Similarly, conventional pigs infected with PPV2 showed no clinical signs and had no macroscopic or microscopic lesions. When pigs were co-infected with PCV2 and PPV2, coinfecting pigs had more severe microscopic lesions compared to singular-PCV2-infected pigs. The results of this study indicate that PPV2-PCV2 coinfection can result in enhanced disease and lesions consistent with PCVAD and intervention strategies to control PPV2 infection in pigs may help control PCVAD.

These research results were submitted in fulfillment of checkoff-funded research projects. This report is published directly as submitted by the project's principal investigator. This report has not been peer-reviewed.

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