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Pathogenesis of Canadian 4/91 IBV variant in layers

Infectious Bronchitis Virus (IBV) is commonly found in commercial layer flocks, resulting in low egg production and poor egg quality. There are hundreds of IBV variants exist globally and emerging continuously. Multiple vaccinations are common, but effectiveness varies due to the number of IBV strains present in poultry. IBV 4/91 strain is one of the common IBV strains isolated in Eastern Canada between 2014-2018 from laying flocks affected poor egg production. However, little is known about it.

The present study was designed to determine the impact of Canadian 4/91 IBV isolate on egg production, its tissue tropism and to determine the immune response in chickens challenged with 4/91 IBV.

Determining the characteristics of 4/91 IBV will provide insight into production implications for industry and help develop mitigation & control strategies