**Avian Metapneumovirus (aMPV) Seroprevalence in Layer Farms**

**in Chiang Mai Province, Thailand**

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Avian metapneumovirus (aMPV) is a significant viral pathogen affecting chickens and turkeys, responsible for causing acute upper respiratory tract infections and swollen head syndrome. This disease is highly contagious and can lead to substantial economic losses in poultry flocks around the world, particularly in Asia, due to its impact on flock health and productivity, especially when compounded by secondary infections. In this study, we conducted a serological survey of chicken sera from layer farms in Chiang Mai province, Thailand, using indirect ELISA. We collected a total of 98 serum samples from mid-layer (40-56 weeks old) aMPV non-vaccinated flocks between December 2023 to February 2024, located in high-density poultry farming areas of Chiang Mai. Out of these samples, 63 (64.2%) tested positive for aMPV antibodies. The results suggest that commercial poultry in Chiang Mai are exposed to aMPV or that the virus has infected layer chickens. Implementing biosecurity measures and maintaining excellent ventilation practices can help reduce infections among chickens. This study provides the first serological evidence of aMPV presence in Chiang Mai, Thailand, highlighting the need for ongoing surveillance and improved management practices to protect poultry health and industry profitability.