

# Avian H11 influenza virus isolated from domestic poultry in a Colombian live animal market

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© The Author(s) 2016. Live animal markets (LAMs) are an essential source of food and trade in Latin American countries; however, they can also serve as 'hotbeds' for the emergence and potential spillover of avian influenza viruses (AIV). Despite extensive knowledge of AIV in Asian LAMs, little is known about the prevalence South American LAMs. To fill this gap in knowledge, active surveillance was carried out at the major LAM in Medellin, Colombia between February and September 2015. During this period, overall prevalence in the market was 2.67% and a North American origin H11N2 AIV most similar to a virus isolated from Chilean shorebirds asymptotically spread through multiple bird species in the market resulting in 17.0% positivity at peak of infection. Phenotypically, the H11 viruses displayed no known molecular markers associated with increased virulence in birds or mammals, had ?2,3-sialic acid binding preference, and caused minimal replication in vitro and little morbidity in vi