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Haemagglutination activity of chick embryo chorio-allantoic membrane experimentally inoculated with foot and mouth disease aphthous virus

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Abstract
This study was designed to investigate the clinical and gross pathological features of the porcinophilic strain of Foot-and-Mouth Disease virus (FMDV) (O/Iraqi/014) in experimentally infected chicken embryo. Fifty-five specific pathogen free (SPF) chick embryo of 10-11 days age, were used in this study. All chick embryos were inoculated in the chorio -allantoic membrane with 0.1 ml of the porcinophillic strain (O/Iraqi/014/FMDV), the viral suspension containing $10^{4.7}$/ ml Egg Infectious Dose fifty (EID50). This virus strain was isolated from the epizootic of FMD in Iraqi sheep in 2014. Five chick embryos were inoculated with 0.1 ml of phosphate buffer saline only and acted as the control. The EID50 was calculated according to Reed and Munch method. The results approved the gross pathological changes in the chorio-allantoic membrane. In addition, haemagglutination test was approved the virus activity in the chick embryos harvest.

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