



Title	HISTOPATHOLOGICAL STUDIES OF GIZZARD EROSION IN DAY OLD CHICKENS
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Citation	Japanese Journal of Veterinary Research, 13(2), 52-52
Issue Date	1965-06
Doc URL	http://hdl.handle.net/2115/1809
Type	bulletin (article)
File Information	KJ00002369135.pdf



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18 hours, and the length of the latent period was 18 hours. The new virus particles were released outside of the cells following this latent stage. The estimated yield of virus particles was about 250 PFU per infected cell at 42 hours.

The remarkable difference in the infectivity: hemagglutinin ratio between extracellular phase and intracellular phase suggested that there exists at least two stages in the course of the virus multiplication.

In making the diagnosis of infectious canine hepatitis complement fixation test, hemagglutination inhibition test and agar gel precipitation test were all found useful using the antigen prepared from infected tissue culture fluid.

HISTOPATHOLOGICAL STUDIES OF GIZZARD EROSION IN DAY OLD CHICKENS*¹

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Out of a large number of day old chickens which had been diagnosed as having weakness of the body, one hundred and two cases were sacrificed at random within 12 to 24 hours of hatch. The autopsies of all the cases revealed erosions of the gizzard. All of the cases were histopathologically investigated from a general point of view.

The most fundamental histo-pathogenetical processes in the gizzard erosions were the alteration of the vessel walls (edematous loosening to swelling and hyaline swelling to hyalinization) and the degeneration of the intramural nervous plexus (formation of globular substances, etc.); the degeneration of the nervous plexus was regarded as what took part in the alteration.

*¹ The original report of this work will appear in this Journal in the near future.

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