

MORFOFUNCTION STUDY OF SPLEEN OF THE BROILER WITH SUPPLEMENT OF *CRUDE CHLORELLA* AND *NEWCASTLE DISEASE* VACCINATION

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ABSTRACT

The aim of this study is to find out the effect of supplement of *crude chlorella* and ND vaccination on the white pulp diameters and the length of red pulp of spleen and the total of lymphocyte. Thirty days old chicken broiler divided randomly into two groups. The first group has vaccinated and given supplement of *crude chlorella* 0 %, 5%, 10 %. The second group has not vaccinated and given supplement of *crude chlorella* 0%, 5%, 10%. Ten days after vaccination, they were sacrificed and the spleen were collected to histological examination. The data were analyzed by Univariate ANOVA using *SPSS for windows 13.00*. The result showed that supplement of *crude chlorella* 5 % and has not vaccinated had significant effect on the white pulp diameters and the length of red pulp. Supplement of *crude chlorella* 10 % and vaccination had significant effect on the total lymphocyte.

Key words : *Crude chlorella*, Spleen, Vaccination