

STUDY OF RELATIONSHIPS OF THE TRANSFERRIN TYPE TO RESISTANCE AGAINST MAREKS DISEASE IN NATIVE CHICKEN.

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ABSTRACT

This study was conducted to identify transferrin types in blood native chicken and relationships to Mareks' disease by measuring many parameters weekly such as Body weight , Lesion signs and Mortality rate .in this study was carried out on 120 chick one day old which reared on a litter until the end of experiment 28 wks'.in the 12 wks'old, blood samples have taken directly from heart and blood serum was isolated . Transferrin types were isolated by gel electrophoresis technique , three types of transferrin were identified and value A= 48 , AB= 32 , B=40 . The chicks were divided in such type as random to two groups , First is control and the second is Treated , and divide into subgroups 15 chicks . The treated subgroups were infected with the Mareks' disease virus (MDVs) suspension at 14 wks' of age . The usual clinical signs and the postmortem signs which associated with Mareks' disease were noticed 4wks' after the artificial infection . The results explained that , there were significant differences at Level $P < 0.05$ of the mean of body weight , Lesion signs and Mortality rate between control and treated groups , there was also significant differences in means at the same Level in treated subgroups especially type A with AB, B. This study was explained that a different in resistance against Mareks' disease between types of Transferrin, but (Homozygosity) type A gave the best result' when compared with another types of Transferrin in case of selection and resistance against disease in native chicken.

Key words: Native Chicks, Transferrin Types, Gel Electrophoresis, Mareks Disease ,Resistant.