JUMLAH SEL PLASMA PADA CAECA TONSIL BROILER YANG TERPAPAR HEAT STRESS KRONIS YANG DIVAKSIN ND (Newcastle Disease)

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ABSTRACT
The purpose of this study was to know immune response by observing number of plasma cells as an antibody producer in the caeca tonsil of broiler exposed by chronic heat stress and ND vaccines. This study using 24 DOC (Day Old Chick) broiler Cobb strain and divided randomly into four groups. P0 (without heat stress treatment and vaccines) : given the normal temperature 30-32°C. P1 (with heat stress treatment and without vaccines) : given temperature 35- 35,5°C during four weeks (8 hours/day). P2 (without heat stress treatment and with vaccines) : given the normal temperature 30-32°C and ND vaccines on second week after heat stress treatment. P3 (with heat stress treatment and vaccines) : given temperature 35-35,5°C during four weeks (8 hours/day) and ND vaccines on second week after heat stress treatment. The result of this study show that very significant differences ($p<0,01$) between treatment groups and control groups. In conclusion, broiler exposed by chronic heat stress and ND vaccines that there were changes, that is an increase of plasma cells number in caeca tonsil.