

**PACKED CELL VOLUME, HEMOGLOBIN AND ERYTHROCYTE
QUANTITY AT CAT HAD BEEN INFECTED *Isospora felis*
AND USING ULTRA VIOLET IRRADIATION**

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ABSTRACT

The aims of the research is to analyze effect of different ultra violet irradiation lasting on *I. felis* oocysts to packed cell volume, hemoglobin and erythrocyte quantity. Twenty cats, 2 to 3 months old divided into 4 groups. Each group consisted of 5 cats. The 1st group cats were orally infected with 25 minutes of ultra violet irradiation oocysts. The 2nd group, cats were inoculated with 50 minutes of ultra violet irradiation oocysts. The 3rd group, cats were inoculated with 75 minutes of ultra violet irradiation oocysts. The control group, cats were infected with normal of *Isospora felis* oocysts. Blood collections were performed 7 to 12 days post infection and calculated packed cell volume, hemoglobin and erythrocyte.

The result of the research showed that there was significantly different ($P < 0.01$) on packed cell volume, hemoglobin and erythrocyte between control group and the other groups (25 minutes of ultra violet irradiation oocysts, 50 minutes of ultra violet irradiation oocysts and 75 minutes of ultra violet irradiation oocysts). The highest mean of packed cell volume, hemoglobin and erythrocyte in group which infected with *Isospora felis* that given ultra violet during 75 minutes. While, the lowest mean of packed cell volume, hemoglobin and erythrocyte in control group.

Key words: packed cell volume, haemoglobin and erythrocyte.