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Effects of the induced electromagnetic field on some hematological and biochemical blood parameter in rabbits female

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Introduction: According to the fast developing of technology and change our life rhythm by using and live around a lot of electrical devices which produce electrical magnetic field (EMF) differs in its density and have harmful effects in long exposure periods to it. This study was aimed to investigate the physiological effects of induced electromagnetic field (EMF) on some hematological and biochemical parameters in rabbits blood.

Material and Methods: Twelve female rabbits divided into two groups; 6 rabbits in each group were put in a cage. First group control and the second group was experimental group exposed to EMF with intensity 510 guess for (10 minutes/day) for a period of 14 days.

Results: The result show in experimental group significant increase ($p \leq 0.05$) in the lymphocyte percentage to (62.51)%, platelet count (225.83) 106/mm3, creatinine (1.11)mg/dl and total protein level (59.50)mg/dl, in compared with control group which show respectively (31.7)%, (90.91) 106/mm3, (0.7)mg/dl and (54.00)mg/dl while significant decrease ($p \leq 0.05$) in granulocyte percentage (31.06)%, total cholesterol (90.50)mg/dl and triglyceride (25.80)mg/dl. In compared with control group (64.66)%, (192.36)mg/dl and (79.25)mg/dl respectively.

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