

Biochemical effects of exposure to electromagnetic field in mice

Authors:

**Peighambarzadeh SZ and
Tavana M.**

Institution:

Veterinary Department,
College of Agriculture,
Shoushtar Branch, Islamic
Azad University

Corresponding author:

Tavana M

ABSTRACT:

The present study evaluated the effects of electromagnetic field radiated from cell phones with frequency between 500 to 900 MHz on total protein, albumin, Blood Urea Nitrogen (BUN), creatinine, cholesterol, glucose, Alanine Amino Transferase (ALT), Aspartate Amino Transferase (AST) and Thyroid Stimulating Hormone (TSH) of Swiss albino mice. In this study, sixty adult Swiss albino mice were divided in three groups, each consisting of twenty animals. Test groups were exposed to electromagnetic wave twice a day for 21 days. Blood samples were prepared from heart and some biochemical factors were measured and statistical analysis was also performed using SPSS. According to the results BUN, ALT and AST were increased and the average amount of body weight, creatinine, fasting blood sugar, protein, albumin, cholesterol and TSH were decreased in the test group. Electromagnetic wave has influence on the biochemical parameters in mice.

Keywords:

Bulk density, clay content, soil moisture, soil texture and TDR