

Original Research

Effect of acute water immersion stress on immunity markers of albino rats

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Abstract

Aim and objective: Stress can affect the immunity system through different physiological pathways and also alters the inflammatory markers. The current study has designed to evaluate the effect of acute water immersion stress on selected immunity markers on albino rats.

Materials and methods: Twelve male albino rats were selected and examined. Rats were divided into two groups as control and experimental. Acute water immersion stress was induced in experimental group. Blood samples were collected and inspected for immunity markers.

Results: All the markers showed marked changes in acute stress. Changes in CD4 and CD8 showed strong significant changes.

Conclusion: The study reported the immunomodulatory effect of acute stress in albino rats.

Keywords: Acute stress, Albino rats, immunity markers

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