

The effect hydro-alcoholic extract of yarrow (*Achillea Officinalis*) on blood factors of female mice**Mehrdad Modaresi¹, ²Shabnam Hassanzadeh Roohalai,****Islamic Azad University¹, Iran****Noor University, Isfahan² Center, Isfahan, Iran***Umm AL- Qura University, Saudi Arabia*

Yarrow (*Achillea officinalis*) is one of the plants from the Asteraceae family. In fact, it is one of the most famous medicinal plants that boosting the immune system is one of its benefits. Current research was carried out to study the effect of hydroalcoholic extract of yarrow (*Achillea officinalis*) on blood factors of female laboratory mice. Fifty female mice were divided into five groups including control group, placebo and three treatment groups which received 50, 100 and 200 mg/kg of hydroalcoholic extract injections in peritoneum for twenty days every other day. After twenty days blood samples were taken from the heart the number of blood cells was measured using an automatic cell counter machine. Results showed that the number of white blood cells, lymphocytes and monocytes were increased significantly in 50 all treatment groups in proportion to control group. WBC was increased in 50 mg/kg group showed significantly increase. The number of RBC was significantly increased by 200 mg/kg dose whereas the number of neutrophils was decreased significantly in all three doses. According to results, yarrow extract showed a significant effect on blood factors in all three doses and can have a positive effect on the number of red blood cells and white blood cells.

Biography

Mehrdad Modaresi is currently working as an Associate Professor in the Department of Animal Science at Islamic Azad University, Iran. His research fields are herbal drugs and animal physiology. His research work reflects in wide range of publications in various national and international journals. He has completed his PhD from Islamic Azad University, Research and Science Branch.

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