



The effect of *Cajanus Cajan* extraction on some haematological parameters among haemorrhagical anaemic rats in khartoum –sudan

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Abstract:

Background:

Worldwide different plants were studied for their role in the treatment and correction of different types of anaemia's, their iron content and their ability to enhance iron absorption in the body, So herbal medications can be considered as one of the solutions to dietary of iron deficiency and can be the replacement for food supplementation programs especially in areas of illiterate populations where natives lack appropriate health care. The Medicinal and Aromatic Plants Research Institute (MAPRI) of the National Centre for Research (NCR) plays major role in medicinal and aromatic plants investigation, determination of therapeutic properties, then documented the result of researches and contributes with local healers in different regions of Sudan.

Methods:

This study used to determine the effect of *Cajanus Cajan* seeds extract on the some haematological parameters among hemorrhagic anaemia rats, Khartoum –Sudan.

Experimental randomised controlled trial study conducted among 24 healthy Wistar albino rats with both sex, ages (6weeks) and weighing between (75-130g), they were feed with standard laboratory chow and water. The rats were divided into four groups each one consist of six rats and labelled A, B, C, D. This study utilize the quantitative approach to measure blood parameter (RBCs, HB, PCV, MCV, MCH, MCHC, PLTs count, and WBCs count) in haemorrhagic anaemic rats received *Cajanus Cajan* seeds extraction.

Result:

High dose group(800 mg/kg/day) represent highly significant increases HB in W0&W1 P value < 0.001, and W0&W3 p value is 0.0002. while the dose of 400mg/kg/day significant increase in W0&W1 p value is < 0.003 and W0&W3 p<0.00004, in the lowest dose of extraction 200mg/kg/day represent also significant increase at W0&W1 p<0.005 and in W0&W3 p<0.007 respectively, when compared to control values(Group1).



Conclusion:

This study revealed that there are increased in some haematological parameters(Hb, RBCs, PCV). This studies proved that, the overall study lend support to the use of ethanol seeds extract of *Cajanus Cajan* in treatment of hemorrhagic anaemia. and the study has clearly showed the increase in some haematological parameters after administration of the extraction of *Cajanus Cajan* seeds.

Biography:

Khalid Mohamed Khalid Elhussain is from Faculty of Medical Laboratory Sciences, Omdurman Islamic University, Sudan. He appreciates the effort of the staff members of Medicinal and Aromatic Plants Research Institute (MAPRI), National Centre For Research (NCR), Khartoum, Sudan, for their permission and grate helps to carry out this work

4th International Conference on Natural Products and Medicinal Plants Research; September 25-26, 2020; Montreal, Canada.

Citation: Khalid Mohamed Khalid Elhussain; The effect of *Cajanus Cajan* extraction on some haematological parameters among haemorrhagical anaemic rats in khartoum –sudan; September 25-26, 2020; Webinar