

PDF - CORRELATION BETWEEN THE SERUM LEVELS OF HOMOCYSTEIN AND MALONDIALDEHYDE (MDA) IN MALARIA INFECTED MICE TREATED WITH SEED AND STEM EXTRACTS OF PHYLLANTUS AMARUS - researchcub.info **ABSTRACT**

Herbs constitute an integral part of human health therefore; they are used for the treatment of several diseases. One of such popular herbal plant is Phyllanthus amarus. This herb has been in traditional medicine for over 3,000 years and has, thus, served as a lead for several experimental investigations that explored its phytochemical constituents and pharmacological uses of herbs. So, this present study, investigates the correlation between serum levels of homocysteine and malondialdehyde in malaria infected mice treated with seed and stem extracts of Phyllanthus amarus. Thirty (30) adult Swiss albino mice (22-27g) body weight were procured and randomly divided into six groups (n=5/groups) for the study. Group 1: Positive Control (given distilled water); Group 2: Negative Control (infected with Plasmodium Berghei); Group 3: Experimental 1 (administered 150 mg/kg/d of seed and stem extracts); Group 4: Experimental 2 (administered 300 mg/kg/d of seed and stem extracts); Group 5: Experimental 3 (administered 450 mg/kg/d of seed and stem extracts), and Group 6: Standard (administered Chloroquine 5 mg/kg/d). Each group was treated for 7days after which the animals were sacrificed under chloroform anaesthesia following an overnight fast. Whole blood was collected into an anticoagulant container and prepared for biochemical assay of homocysteine and malondialdehyde serum levels using standard methods. Results show that there was correlation between the serum levels of homocysteine and malondialdehyde in malaria infected mice treated with Phyllanthus amarus ethanolic seed and stem extracts, with the following correlations for seed and stem extract analysis respectively i.e Group 1 (r= 1.0 and 0.3), Group 2(0.1 and 0.1), Group 3(0.3 and 0.7), Group 4(-0.6 and 0.9), Group 5(-1.0 and 0.6), and Group 6(0.6 and 0.9). Also, there was significant reduction ($p < 0.05$) on the levels of homocysteine and malondialdehyde when the seed and stem extracts where administered at 150 mg/kg/d ($35.7 \pm 2.5 \mu\text{M}$, $34.2 \pm 2.9 \mu\text{M}$; $42 \pm 6.5 \mu\text{M}$, $25.7 \pm 0.9 \mu\text{M}$), 300 mg/kg/d ($35.8 \pm 2.6 \mu\text{M}$, $37.6 \pm 1.9 \mu\text{M}$; $46.3 \pm 2.9 \mu\text{M}$, $25.3 \pm 2.9 \mu\text{M}$) and 450 mg/kg/d ($35.7 \pm 1.7 \mu\text{M}$, $37.6 \pm 2.1 \mu\text{M}$; $46.3 \pm 3.1 \mu\text{M}$, $26.3 \pm 2.9 \mu\text{M}$) when compared with the control mice; positive control (17.4 ± 5.4 , 37.5 ± 3.3 ; 38 ± 2.9 , $35.7 \pm 4.8 \mu\text{M}$) negative control (64.3 ± 4.7 ; $65.8 \pm 11.3 \mu\text{M}$), values represented for homocysteine seed and stem, and malondialdehyde seed and stem respectively. The active chemicals responsible for this beneficial observation need to be identified and purified for further study.

CORRELATION BETWEEN THE SERUM LEVELS OF HOMOCYSTEIN AND MALONDIALDEHYDE (MDA) IN MALARIA INFECTED MICE TREATED WITH SEED AND STEM EXTRACTS OF PHYLLANTUS AMARUS

The complete project material is available and ready for download. All what you need to do is to order for the complete material. The price for the material is NGN 3,000.00.

Make payment via bank transfer to Bank: Guaranteed Trust Bank, Account name: Emi-Aware technology, Account Number: 0424875728

Bank: Zenith Bank, Account name: Emi-Aware technology, Account Number: 1222004869

or visit the website and pay online. For more info: Visit <https://researchcub.info/payment-instruct.html>

After payment send your depositor's name, amount paid, project topic, email address or your phone number (in which instructions will sent to you to download the material) to +234 70 6329 8784 via text message/ whatsapp or Email address: info@allprojectmaterials.com.

Once payment is confirmed, the material will be sent to you immediately.

It takes 5min to 30min to confirm and send the material to you.

For more project topics and materials visit: <https://researchcub.info/> or For enquiries: info@allprojectmaterials.com or call/whatsapp: +234 70 6329 8784

Regards!!!