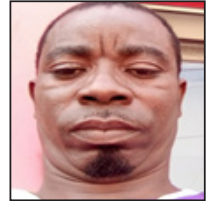


Efficacy of saraca asoca in the treatment of Malaria Sickness in Nigeria, Africa



Abstract

STATEMENT OF PROBLEM: Malaria is one of the killer diseases in Nigeria, according to WHO and UNICEF; the disease claims a higher percentage of infants' populations in the countries every year. Government spend huge amount on drugs for large amount of money could be reduced if this saraca tea can be taking regularly which shows no negative side effective on human system unlike the synthetic drugs produced.

METHODOLOGY

This was done in two ways

(i) Chemical extraction using a universal solvent (ii) Local extraction using not water

The leaves were collected from the tree and sun-dried for 3 day so as reduces the moisture content of the after drying is then grinded into powdery form so as to give large surface area during extraction. After grinding, the power is then put into a soxhlet extraction chamber and using a universal solvent and allow to stay for about 3 days or heated to extract the active juice which settles in the bottom of the soxhlet extractor The extract was then filtered so as to remove any residue from the extract and the solvent is then stored in a jar as solution. containing hot water to be taking twice daily at 8 hours interval by diseased individual at selected in 3 states Lagos, Ogun and Oyo. The blood sample of mouse and individual was then taken and examined again under the microscope. Using this method

Examination of blood sample

Blood smear on slide+ Giemsa stain => parasitized red blood cells gives a pink coloration.

RESULT

After the mouse has been injected with blood sample contain plasmodium falciparum the table below shows the observable parasitized red blood cell (RBC) which shows pink colorations upon viewing.

It was observed that the extract is very effective against malaria parasite which has been discussed on one of the most deadly disease in Africa according to WHO and UNICEF which has consumed much of life and goverment money for the past years. It is assumed that if this research is allow to see the light of the day, it will reduce a lot govt. spending and rate of mortality of infants and adults.

Publications

1. Adegunwa k (2013) Therapeutics Role of A.indica.
2. Adegunwa k (2012) The efficacy of A. indica (neem) in the treatment of malaria sickness in Nigeria
3. Adegunwa k (2009) The efficacy of A. saraca in the treatment of malaria sickness in Nigeria

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Biography

Adegunwa Adekunle is a microbiologist and a laboratory technologist in a tertiary institution with Odufeko Tosin, he desires to go into medical microbiology research with overseas research institutes with a view to explore same and widen his research work to attain greater height in the field of microbiology.



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