



THE ARTICLE REVIEW ON, ANTIPARASITIC EFFICACY OF NYCTANTHES ARBOR-TRISTIS.

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ABSTRACT:

Nyctanthes Arbor -tristis is the medicinal plant which have antimalarial activity It also have anti-inflammatory activity the efficacy of Nyctanthes Arbor -tristis is mainly observed against malarial diseases

INTRODUCTON:

- kingdom:Plantae
- Clade: Asterids
 - Clade: Angiosperm
 - Clade: tracheophytes
 - Clade: Eudicots
- Order:Lamiales
- Family:Oleaceae
- Genus: Nyctanthes

HISTORY: it is mainly found in tropical as well as sub-tropical region of southwards to Godavari it is native in india and Pakistan etc. the leaves of this plant is mostly found in region of world, indian name, of plant nyctanthes arbor tristis is parijatak deciduous trees with drop 3 angle braclet it mainly occurs in august to September and fruits ripened January to February.



Fig No 1 - Nyctanthes arbor-tristis

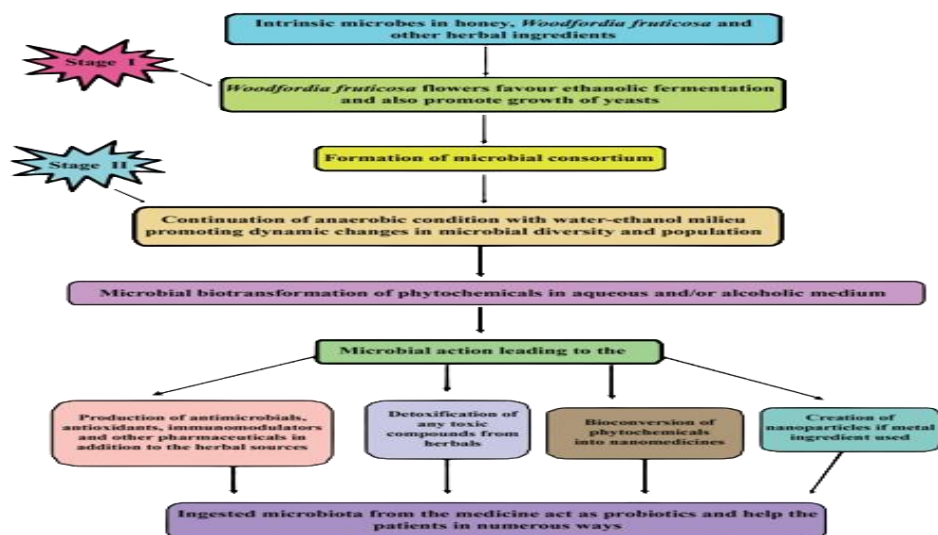


FIG NO 2 – EXTRACTION OF ARBOR-TRISTIS

USES:-

1. *Nyctanthes arbor-tristis* (NAT) is an ornamental garden plant traditionally used for treating many diseases such as malaria, and helminthiasis, arthritis.
2. It is also antipyretic antimicrobial antifungal.

ANTIMALARIAL ACTIVITY: *Nyctanthes arbor-tristis*

The study was done in the Department of Molecular Rapid biological system. Leaves of *Nyctanthes arbor tristis* (NAT) were chosen, dried leaves, grounded and extracted with solvent of flexible polarity. The bioactivity of NAT leaf extracts was carried out through *Plasmodium vivax* malaria induced in albino mice animal model. From experiment of was derived and from the second experiment the Ethanol 70% extract of NAT was found to be symptomatic of the plant biologically active. The experiment involving the combination therapy was taken up by combining 20mg/kg of 200mg/Kg and 400mg/Kg of Ethanol 70% extract of NAT.

CONCLUSION: This experiment helpful us for the NAT leaves can be used as a lead for combination of malarial therapy, further detailed experiments related to the safe pharmacokinetic property conclude need to be considered.

REFERENCES:

1. Sah AK, Verma VK, **Phytochemical and Pharmacological: Potential of *Nyctanthes arbor.tristis*.**, *International Journal of Research in Pharmaceutical and Biomedical Sciences*, (2012)
2. Sasmal D, Das S, Basu SP, **Phytoconstituents and therapeutic potential of *Nyctanthes arbor-tristis* Linn**, *Pharmacognosy Reviews*, (2007).
3. K R Kritkar B D Basu, LM Basu. **Indian Medicinal Plant, 1993 activity of stem bark extracts of *Nyctanthes arbortristis* Linn. (Oleaceae).** *International Journal of Pharmacognosy and Phytochemical Research.*, 2009.