TO INVESTIGATE BIOACTIVE COMPOUNDS AND CHECK ITS EFFECTIVENESS AS ANTIMICROBIAL ACTIVITY FOR PERISTROPHE BICALYCULATA

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***ABSTRACT*: -** Peristrophe Bicalyculata is a straight, hispid herb 70 to 180 cm tall, found in forests and waste lands almost across the country. The species are herbaceous plants or shrub, with two-lipped flowers. Peristrophe Bicalyculata (Acanthaceae) is up to 60-180 cm in height and established almost throughout Africa, India and Afghanistan. Peristrophe Bicalyculata is commonly known as kakajhanga in Sanskrit and kali aghedi in Hindi. The herb is used for its anti-bacterial properties like snake poison, in bone fracture, cold, cough, fever, sprain and for ear and eye treatments. The chemical constitutes of the dried aerial parts be seen 14-methyl-tritriacont-14-en-15-ol and 35-hydroxynonatriacontanal. Extract of this plant posses' various pharmacological parameters such as antimicrobial, antioxidant, anti-diabetic, anti-inflammatory, enzyme inhibitory activities without any side effects. The diverse parts of this plant has been widely used in treating various skin infections.Pioneerwork was done by our Shushrut, Saints Charak and several others, which was collected in the form of vedas (Rigveda,Ayurveda) Samhita, Nighantu and Aryabhishak. Peristrophe bi- calyculatta (Retz-Nees) is reported to be the useful remedy for the treatment of T.B,Antiseptic,Jaundice,Manorhaegia, andAnti-venom agent in indigenous system of medicine.
In this review we have studied the detailed phytochemical of stem and leaf as well asphysiochemical parameters, phytochemical screening and leaf or seed constant. The solvent extract is used in checking antimicrobial activity against all the clinically isolated microorganisms.

***IndexTerms*- Peristrophe Bicalyculata, Bioactive compounds, Solvent Extract, Anti-microbial activity, skin treatment.**