ANTI-MICROBIAL ACTIVITY OF AQUEOUS AND ETHANOLIC EXTRACTS OF ROOTS AND LEAVES OF MURRAYA KOENIGII.

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ABSTRACT:

Murraya koenigii, family Rutaceae, commonly known as Curry leaf plant is a highly valued plant for its medicinal value and characteristic aroma. The plant shows varied pharmacological activities like antimicrobial, antifungal, hypoglycemic, antiobese, antipyretic, hepatoprotective etc.,

The plant is a rich source of carbazole alkaloids containing mahanimbine as a major alkaloidal constituent in its major proportion which was proved by mayer's alkaloidal test. The aqueous and ethanolic extracts of roots and leaves of the plant were screened for antimicrobial activity for Staphylococcus aureus, Pseudomonas aeruginosa and Escherichia coli.

The antimicrobial activity was tested by diffusion assay method in which cup plate method was chosen. The study shows that aqueous and ethanolic root and leaf extracts possess remarkable antimicrobial activity when compared with standard cephalosporin. Thus,Murraya Koenigii shows tremendous antimicrobial activity with root and leaf extracts.

Keywords: Murraya koenigii, Antimicrobial Activity, Mahanimbine, Diffusion Assay Method,Cephalosporin.