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PROCEEDINGS



atural medicines and bioactive agents in times of climate chan

## Anti bacterial screening and anatomy of the word of Bombax cells: Resementhan Nicoh\*, K.Niranjar\*, N.Ravinannar\* and K.Sounthararaian\*

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Bombarcollais a traditional medicinal plant belonging to family widely used in Siddley preparations in Sri Lanka since ancient times. Review of literature revealed less work on this plant. Before recommending it for clinical use scientifically we need to test it for antibucterial activity. This was done by agar well diffusion method. Bucteria used were Fcoli, Protess sulgares, Klebnella sp. Suphyllococcus awars, Perulomonas arraginosa and Bueslies carculous. This 5 may revealed that some bacteria were inhibited differently (7 ±00 to 30 ± 00 mm) and some were not at all inhibited by the extracts used. Dried powder estracted with ethanol and water showed comparatively higher inhibition against test organisms than water and ethanol extracts of fresh parts of storn. But Protess radgors was not inhibited by water extract of both fresh and dried stem powder. Ethanol extract of dried powder showed more or loss equal inhibition like streptomycin. This varies from (15 400 to inhibition against test regerisms and the results obtained were found to be higher than that with streetersyoin for a set of the bacteria. This may be due to the synergistic effect of the bio active compounds costent in the crude extract. Control experiment indicated that the mixture of DM90 and arctone did not affect the anowh of test perhapses. We used this nacture of Accorde in 1:1 ratio to dissolved the crude extract. Because of the only mature of DMSO this prevents the vaporization of extract. DMSO: Acetone (1:1) mixture as control did not affect the growth of test pathogens. This study indicates the presence of active interedients in the crude extracts. Water and ethanol extract of Bomber ceibe stem deied powder could be used for further isolation and purification of novel bio active molecules which may be used in siddha and other drug proparations. Anatomical studies were done using the stereo microscope. The wood is usually white/pale pink turning pale yellow on exposure. Further studies are required to do a companitive analysis between different species.

Keywords: Bondex, Ambacterial, Anatony, Inhibition