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COMPARATIVE ANTIBACTERIAL SCREENING ON *BIOPHYTUM SENSITIVUM* AND *MIMOSA PUDICA* FOR DIABETIC FOOT ULCER.

Kularathna D.P.D.N.^{1*}, Pushpakumara A.A.J.¹, Dayarathna M.T.A.²

¹Department of Shalya Shalakya, Gampaha Wickramarachchi Ayurveda Institute, University of Kelaniya, Sri Lanka

²Department Cikitsa, Gampaha Wickramarachchi Ayurveda Institute, University of Kelaniya, Sri Lanka

*wiitharaagii@gmail.com

Biophytum sensitivum (L.) DC. (Oxalidaceae) and *Mimosa pudica* L. (Fabaceae) are identified as "Lajjalu" in Ayurveda. These plants have been used in the form of decoctions and infusions to treat infections and also claimed to be effective against skin conditions like psoriasis, acne, wounds etc. The present investigation was carried out to study the antibacterial activity of these plants with respect to their traditional use as wound healing agents.

Boiled extracts of *Biophytum sensitivum* and *Mimosa pudica* were screened for their antimicrobial activity against *Staphylococcus aureus* (ATCC 25923), *Streptococcus agalactiae*, (ATCC 12386) MRSA (Methicillin-resistant *Staphylococcus aureus*) (ATCC 25923) and *Pseudomonas aeruginosa* (ATCC 27853) against a positive control of Amoxicillin (10mg/ml), using pour plate method and agar well diffusion method.

Boiled extracts showed significant antibacterial effect on MRSA. The pour plate method gave a colony count of 1.5×10^4 CFU/ml for *Mimosa pudica* and 2.2×10^4 CFU/ml for *Biophytum sensitivum* with 0CFU/ml in the positive control. The well diffusion method showed 7mm and 5mm diameter zones of inhibition for *Mimosa pudica* and *Biophytum sensitivum* respectively, where as the zone of inhibition for the positive control was 25mm.

The extracts had no significant antibacterial affect on other organisms.

Keywords Antibacterial activity, Diabetic foot ulcer, Pour plate technique, Lajjalu