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Antimicrobial activity of *Oliveria decumbens* Vent. extract against isolated microbes from the environment

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Objective: Prevalence of diseases originated from air pollution such as asthma and allergies, which is caused by pathogenic bacteria, is the main reason for transmitting of the bioaerosols. Bacteria and fungi are the main sources of hospital infections, which cause the most diseases and mortality. The aim of this study was to determine antimicrobial activity of the ethanolic extract of *Oliveria* decumbens leaf against five bacterial strains such as *Staphylococcus aureus*, *Entrococcus faecalis*, *Escherichia coli*, *Klebsiella pneumonia* and *Pseudomonas aeruginosa* and three candida species such as *Candida albicans*, *C. glarate* and *C. tropicalis* derivative from the infected environment of hospital in southeastern of Iran.

Methods: Selected Plant extract was prepared by using maceration. Minimum inhibitory concentration of extracts was determined by well diffusion agar method.

Results: The ethanolic extracts of *Oliveria decumbens* leaf was found to be moderate antimicrobial potential, but it was the highest antimicrobial activity against Staphylococcus aureus with minimal inhibitory concentration (MIC) 1.25 mg ml-1. Also, it was active against Candida spp. with MIC 2.5-5.0 mg ml-1.

Conclusion: It was observed the ethanolic extracts of *Oliveria decumbens* leaf could be a potential bioactive agent as detergent for the inhibition of growth of microbial environmental specially soil microbes.

Biography

Batool Sadeghi-Nejad is working as an assistant professor at the Abadan School of Medical Sciences, Abadan, Iran. She has extended his valuable service for many years and has been a recipient of many award and grants. Her international experience includes various programs, contributions and participation in different countries for diverse fields of study. Her research interests reflect in his wide range of publications in various national and international journals.

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