



Conference Abstract

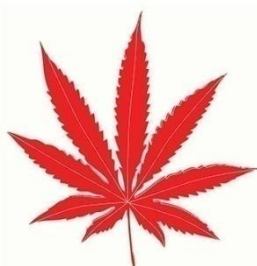
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Assesment of Moringa Oleifera Extract as Handwash

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ABSTRACT

Objective: The purpose of this study is to evaluate the antimicrobial activity of formulated herbal hand wash containing aqueous leaves extract of moringa oleifera against microorganism.

Background: In recent times, the use of plants as a source of vital compounds to fighting microbial infection has gained prominence. Moringa oleifera is a common plant known as drumstick for various medicinal properties and very useful tree in tropic countries. All these parts of moringa tree were used in different healing procedures for different disease. Plants leaves was very good nutrient supplement and also used as an antibiotic. Moringa oleifera was an exceptionally good source of vitamin A, vitamin B, vitamin C, mineral. Hands are needed to protect from bacterial pathogens as they are most prominent part of the body. Proper hand hygiene is the single most important, simplest, and least expensive means preventing from infections. It's required to protect human from disease, to save life of person. The present research work was conducted to investigate phytochemical analysis and antimicrobial activity of aqueous leaves extract of moringa oleifera. Research was done to construct and evaluate herbal hand wash.

Methodology: The phytochemical analysis of sample performed for tannins, saponins, reducing sugar, flavonoids, and phenolic flavonoids, anthraquinones, anthocyanosides. The antimicrobial activity of moringa oleifera was tested against bacterial pathogens i.e. Escherichia Coli, Pseudomonas aeruginosa, Klebsella pneumoniae by agar well diffusion & also compared with commercially prepared antibiotic disc by Kirby disc diffusion, also the efficiency was checking by using the hand wash on volunteers, also performed the antimicrobial activity of hand wash against above gram -ve clinical pathogens.

Result: The phytochemical analysis of sample showed the presence for tannins, saponins, reducing sugar, flavonoids, and phenolic flavonoids & the entire test organism had shown sensitivity against herbal handwash of extract of moringa oleifera.

Conclusion: The current study concluded that Moringa oleifera leaves as a miracle drug trees against ailments and useful for the treatment of many diseases and also the source of natural antibacterial and antifungal infection, also showed that the aqueous leaves extract of



moringa oleifera contain hand wash formulation was more efficient in reducing the number of organisms. Thus it can be used as antimicrobial hand wash with less or no side effects.

Keywords: Formulation of Herbal handwash, phytochemical screening, Antimicrobial and Antibacterial activity, Moringa oleifera.