Antibiotics and bacterial infections

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Aloe Vera gel formulation for wound dressing: Comparison of different polymers using factorial 2³ design

Nida'a M.A. Wadi PhD

College of Pharmacy , National University of Sciences and Technology "NUST", Muscat, Oman

Human skin is known to be the most fragile and sensitive part of the body, it covers entire body, and has various functions in regulating the body temperature and providing a shield against microorganisms such as bacteria1.

Different topical preparations containing antibacterial for treatment wound infection are available in market. Antibiotics are highly effective in wound healing, however their side effects such as irritation and skin allergy reaction are troublesome to the body and if absorbed it will cause systemic side effect. These drawbacks could be avoided if the therapy was switched from synthetic to a natural active ingredient like the plant Aloe Vera.

A promising, but still an underrated group of potential antibacterial agents that can be integrated into wound dressings are known as natural products, especially plant like Aloe vera which help to switch from chemical to natural product treatment2, 3. Leaves of this plant are green resembles with cactus leaves filled with a clear gel like fluid, which is viscous in nature.It can be used alternative for minor sunburn and cosmetics2,4,5. It has been demonstrated that Aloe vera has UV protective, anti-inflammatory, and wound healing properties

Biography

Nida'a M. A. Wadi :Register pharmacist for more than 30 years. She is Assistant lecturer at (NUST, National University of Science and Technology (formally named Oman medical College). She has practiced as lecturer in Medical college and Sr. lecturer Pharmacy College for several years. She has many contributions as speaker, poster presenter as well as published some articles. She teaches in the graduate pharmacy program different pharmacy subjects and she is chairperson of training program for national and international training coordinator with West Virginia pharmacy college, USA & JSS India . Her interest of research on antibiotic delivery system and formulation and evaluation of local delivery system.

nidaaliwadi@nu.edu.om