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Effective herbs on the wound and skin disorders: a ethnobotanical study in Lorestan province, west of Iran

Bahram Delfan¹, Mahmoud Bahmani^{1*}, Zohre Eftekhari², Mahyar Jelodari³, Kourosh Saki⁴, Tahereh Mohammadi⁵¹Razi Herbal Medicines Research Center, Lorestan University of Medical Sciences, Khorramabad, Iran²Institute of Biomedical Research, Postdoc of Veterinary Medicine, Tehran University, Tehran, Iran³Faculty of Veterinary Medicine, Urmia University, Urmia, Iran⁴Shahid Beheshti University of Medical Sciences, Tehran, Iran⁵Tarbiat Modares University, Tehran, Iran

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ABSTRACT

Objective: To identify medicinal plants in Lorestan Province (west of Iran) in treatment of wound healing and skin lesions.**Methods:** Questionnaire were made by health volunteers who were trained. The questionnaire about the beliefs and herbal therapy were filled by liaisons trained in the villages.**Results:** Questionnaire survey showed that 18 medicinal plants from 11 plant families were detected in the province for treating and healing skin lesions.**Conclusions:** The achieving information in the study reported that bioactive substances in some plants have pharmacologic effects in regulating biological processes which can accelerate healing, reducing inflammation and improving health effects. Suggested ideas in this study should be tested in clinical trials and the effectiveness of their therapeutic effects, their effective recognition and secondary materials in the form of natural medicine must be detected for releasing into the pharmaceutical market.

1. Introduction

Skin health in humans and animals is crucial for protection against water loss, bleeding and the entry of microorganisms. The healing of damaged skin is a complex and sophisticated mechanism. In the process of healing, the wound is caused by the rupture, quickly closed; once re-epithelialization on wound surface occurred, the new matrix will quickly replace in the lost dermis[1].

When that barrier was broken and skin damaged, the skin became infected. Wound infection is one of the most serious complications that will occur in the acute phase of injury. Pseudomonas infections are very common in this area and are resistant to most antibiotics. If the infected wound healing was delayed it eventually would lead to chronic ulcers and infections could be sustained. Chronic wounds

can cause tissue trauma and even death of tissue[2,3]. Wound healing is a coordinated response among the extracellular matrix, blood cells and parenchymal cells[4]. For the treatment of skin injuries some agents are used such as betadine solution, acetic acid, saline and antibiotic ointments. However, recent research indicates that many of the solutions used for skin wound healing are toxic to fibroblasts, lymphocytes and cells[5].

Using natural products for medical and therapeutic purposes, dated back to thousands of years ago, was known in Iran as Iranian traditional medicine[6]. Research results show that the use of natural products and traditional medicine in the treatment of many diseases and injuries has spread throughout the world[7,8]. Studies show that more than 80% of the world population uses traditional medicine for the treatment and approximately one third of all drugs were traditionally used for skin disorders and wounds[9–12].

Traditional healing has a long history. Egyptians, Assyrians, Chinese, Greeks and Romans have used the honey alone or in combination with medicinal plants to treat the wounds[13]. In countries like China and India

*Corresponding author: Dr. Mahmoud Bahmani, Razi Herbal Medicines Research Center, Lorestan University of Medical Sciences, Khorramabad, Iran.

Tel: 0986613204005

E-mail: mahmood.bahmani@gmail.com

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where traditional medicine has a long history, the important information regarding the use of plants to treat wounds is unknown[14].

Several attempts have been made to find drugs in traditional medicine to accelerate healing of skin lesions. However, studies continue to find wound healing due to the introduction of a certain drugs to increase the rate of wound healing, herbal medicine and its impact[15]. Today because of marked adverse effects, adverse and unintended result of the use of chemical agents, reuse of medicinal plants is increasing and studies about this matters become enhanced. Therefore, use of drugs and antibiotics medicine are derived from industrial plants such as antibiotics has been considered[16,17].

Scientists always try to find new and effective treatment of plants' medicine so as to improve wound healing. The use of some medicinal plants is suggested by the World Health Organization. It is necessary to study the effects of herbal drugs[18,19].

Due to the importance of ethnobotanical studies, this study was carried out to identify medicinal plants native in Lorestan Province (west of Iran) for the treatment of wound healing and skin lesions.

2. Materials and methods

2.1. The study area

Lorestan is a province of Western Iran, located in the latitude and longitude of 33.4871 °N, 48.3538 °E. Lorestan has

four different climates (semi-dry, semi-moist temperate, semi-moist cold, altitude climate). Its area is approximately 28300 square acres of land. Minimum height above sea level is 330 m in Pole-Zal and maximum height above sea level is 4050 m in Oshtoran-Kooh.

The province has a varied climate and this variability is quite evident from the northeast to the southwest. Lorestan is neighbored on Hamedan and Markazi provinces in north, Isfahan in east, Khuzestan in south and Ilam and Kermanshah in west.

2.2. Method of identifying and collecting data of traditional medications

Data of traditional medications were provided through interviews and questionnaires, with assistance of Management and Planning Organization of Lorestan Province and Lorestan University of Medical Sciences. Local inhabitants data were also collected through cooperation with Health Networks of Dorud, Burujird, Khorramabad, Aleshtar Poldokhtar, Aligoodarz, Nurabad and Kouhdasht.

3. Results

The results of the review information about medicinal herbs revealed that 18 plants from 11 plant families are effective for curing wounds and skin lesions. And the information also included the use and the effect of the effective herbal treatment for skin lesions, their scientific name, family name, local name specified in Table 1.

Table 1

The ethnobotanical information of 18 effective herbs used for healing skin lesions.

Science name	Family	The local name	The Persian name	The used part	The season of collection	The treatment effect
<i>Althaea officinalis</i>	Malvaceae	Khatmi	Khatmi	Flower, seed	Spiring, early summer	Wound healing
<i>Artemisia annua</i>	Asteraceae	Khersdari	Dermaneh	Flower, stem	Spiring	Ulcers and warts healing
<i>Cherophyllum obliqua</i>	Euphorbiaceae	Ghiahe Dakh	Ghiahe Daghe	Leaf, stem, root	Spiring	Removal of moles, warts and pimples
<i>Citrus limonum</i>	Rutaceae	Limo	Limo	Fruit	Early autumn	Ameliorate skin rash
<i>Daphne mucronata</i>	Thymelaeaceae	Toli	Mazarion	Leaf	All seasons	Wound healing
<i>Echinops</i> spp.	Asteraceae	Ghan shakrouk	Tighal Sugar	Fruit	Summer	Treatment of skin ulcers and boils
<i>Lens culinaris</i>	Fabaceae	Adas	Adase Germez	Fruit	All seasons	Wound healing
<i>Malva neglecta</i>	Malvaceae	Touleh	Panirak	Leaf, stem	Spiring, early summer	Treatment of skin ulcers and boils
<i>Mentha longifolia</i>	Lamiaceae	Pineh	Pouneh	Leaf, flower	Spiring, summer	Disinfection and removal of skin allergy
<i>Narcissus papyraceus</i>	Amaryllidaceae	Narges	Narges	Root	summer, autumn	Wound healing
<i>Peganum harmala</i>	Zygophyllaceae	Espan	Espan	Seed	summer	Wound healing
<i>Picromon acarna</i> (L.) cass	Compositae	Khare Zard	Khare Zard	Flower	Spiring	The melancholy of wound healing, removing blemishes and acne
<i>Pistacia atlantica</i>	Anacardiaceae	Adamse Golang	Pesteye Kouhi	Sap	All seasons	Corrosion and disinfect the wound healing beam
<i>Pistacia khinjuk</i>	Anacardiaceae	Berije Kouhi	Boneh	Sap	Summer	Disinfection of wounds
<i>Plantago major</i>	Plantaginaceae	Khourchang	Barhang	Leaf	Spiring	Healing cuts, wounds and boils
<i>Scrophularia striata</i>	Scrophulariaceae	Toshang Darou	Ghole Meimouni	All Part of plant	All seasons	Wound healing
<i>Urtica dioica</i>	Urticaceae	Gazgazou	Gazane	Branch	Spiring, summer	Rash treatment
<i>Vigna radiata</i>	Fabaceae	Mash	Mash	Seed	autumn	Treatment of skin ulcers and measles

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