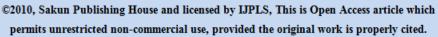


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A comprehensive review on Herbal Treatment of Psoriasis

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Abstract

Psoriasis is a multifactorial inflammatory disorder that has a negative impact on one's quality of life. Around 80% of patients with plaque psoriasis have mild-to-moderate disease that can be treated with topical therapies in primary care, especially through pharmacies. Psoriasis was once thought to be merely a skin condition; however, it is now more accurately defined as a multifactorial, inflammatory disorder. While psoriasis is not life-threatening, it is associated with a substantial reduction in quality of life, affecting work, family, and sexual relations, as well as psoriasis is thought to affect between 2% and 4% of the population in Westernised countries. The present paper enumerate the herbal treatment of the disease.

Keywords: Psoriasis, Herbs, Treatment

Introduction **Psoriasis: Overview**

A skin disease is the most common disease and is mainly ignored in our societies. Eczema, bacterial infections. fungal/yeast infections. parasitic infections, infections. autoimmune disease, and other skin diseases are very prone and common in present day [1]. Psoriasis and eczema (such as seborrhoeic eczema) are the type of autoimmune disorder. [2–7]. Since it will lead to direct impact on quality of life, psoriasis is important all around the worlds and World Psoriasis Day is celebrated. [8, 9].

Psoriasis is listed as a rare inflammatory chronic persistent skin disease by the National Organization for Rare Disorders (NORD) [7, 8]. Psoriasis affects an estimated 125 million people worldwide (roughly 2–3% of the total population). Furthermore, according to the national psoriasis foundation's figures from 2014, psoriasis prevalence in African Americans was 1.3 percent compared to 2.5 percent in Caucasians, while it was 0.2–3 percent in Bulgaria. [8-10].

Psoriasis affects patient life physically, mentally and socially and soe recent data reveal the impact on quality of life as diseases namely diabetes, cameer, hypertension, depression etc. [11-12].

There are several formulation indented to be used for the treatment of diseases at local site or top layer of the skin. Among them topical formulations are basically preferred due to more penetration of the drug.

Biology of psoriasis disease

Psoriasis is characterized as a disease with over proliferation of keratinocytes such as skin cells (around 3-4days) and cell development with keratinocyte abnormal differentiation. Proliferation of cells is in the basal layer doubles and the normal cell cycle (which is around 28days) and hyperkeratosis (the hyperkeratosis leads to induration or skin thickening) and parakeratosis develop (the granular layer is either absent or reduced).

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The color of the psoriatic plaque may be masked by a covering of silvery, white skin scales. Also,

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high level of vascular activity within the psoriatic plaques, there is the change in color of the skin and inflammation, itching and redness of skin [13].

In fact, psoriasis is a hyper-proliferative disorder with significant inflammatory components and belies a complex cascade of immune reactions, finally, stimulation of the skin. Indeed, psoriasis is recognized as the most prevalent T-cell-mediated1 inflammatory condition in humans [13, 14, 15]. Moreover, TNF plays an important role in inflammatory processes of psoriasis.

Types of psoriasis

Plaque psoriasis: The most common form, plaque psoriasis causes dry, raised, red skin patches (lesions) covered with silvery scales. The plaques might be itchy or tender, and there may be few or many. They usually appear on elbows, knees, lower back and scalp.



Nail psoriasis: Psoriasis can affect fingernails and toenails, causing pitting, abnormal nail growth and discoloration. Psoriatic nails might loosen and separate from the nail bed (onycholysis). Severe cases may cause the nail to crumble.



Guttate psoriasis: This type primarily affects young adults and children. It's usually triggered by a bacterial infection such as strep throat. It's marked by small, drop-shaped, scaling lesions on the trunk, arms or legs.



Inverse psoriasis: This mainly affects the skin folds of the groin, buttocks and breasts. Inverse psoriasis causes smooth patches of red skin that worsen with friction and sweating. Fungal infections may trigger this type of psoriasis.



Pustular psoriasis: This rare form of psoriasis causes clearly defined pus-filled lesions that occur in widespread patches (generalized pustular psoriasis) or in smaller areas on the palms of the hands or the soles of the feet.



Erythrodermic psoriasis: The least common type of psoriasis, erythrodermic psoriasis can cover your entire body with a red, peeling rash that can itch or burn intensely.



Psoriatic arthritis: Psoriatic arthritis causes swollen, painful joints that are typical of arthritis.

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Sometimes the joint symptoms are the first or only symptom or sign of psoriasis. And at times only nail changes are seen. Symptoms range from mild to severe, and psoriatic arthritis can affect any joint. It can cause stiffness and progressive joint damage that in the most serious cases may lead to permanent joint damage.

The evaluation of any patient with psoriasis should include a thorough medical history and physical examination of skin, scalp and nails. Doctors may take a small sample of skin (biopsy) for examination of psoriasis.

Psoriasis treatment

Psoriasis treatments are divided into two groups [13].

Topical: Topical therapies are generally used to manage mild-to-moderate psoriasis. This type of therapy may be also used to treat more severe psoriasis in combination with systemic regimes, for example, coal tar or short-contact dithranol in combination with UV light.

Systemic: Systemic therapies used to the more severe spectrum of the disease.

Herbal Medicine for the treatment of Psoriasis People have used herbs to treat skin conditions for centuries, and recent research has supported the idea that some herbal treatments may improve psoriasis symptoms. [16-18]

Psoriasis is an inflammatory autoimmune condition that affects the skin and causes red, scaly patches of skin to develop, often on the elbows, knees, or scalp. Psoriasis affects at least 2 percent of the population and is accompanied by a related condition called psoriatic arthritis. Psoriasis treatment methods vary, from topical creams to light therapy to oral medication. There is no cure for psoriasis, though treatments and natural remedies can help people to manage their symptoms. Many herbs have the potential to reduce inflammation or slow down skin cell growth, which can help with psoriasis symptoms. Several researches are being done and is going on to discover natural remedies for the treatment of psoriasis. Some of the prominent

herbs used to treat the disease are mentioned

below:

Mahonia aquifolium



Fig. 1: Mahonia aquifolium

It is a flowering plant that comes from the mahonia shrub. It is also known as Oregon grape. This herb has a history of use in treating inflammatory conditions, including psoriasis. It contains berberine, which may help to suppress some of the inflammation that psoriasis causes. The plant also has antiproliferative effects, meaning it can slow down the growth of skin cells. This ability helps with psoriasis because the condition causes the skin cells to divide too rapidly, which leads to scaly skin and plaques. According National Center to the Complementary and Integrative Health (NCCIH), Mahonia aquifolium has the strongest evidence bases trusted Source of all herbal remedies for treating psoriasis.

Indigo naturalis



Fig. 2: Indigo naturalis

Also known as qing dai, is a traditional Chinese herbal medicine that people use for treating skin conditions. Recent clinical trials suggest that the treatment can help with psoriasis, and a systematic review from 2015 found that, along with Mahonia

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aquifolium, indigo naturalis was an effective herbal remedy for psoriasis.

Aloe vera



Fig. 3: Aloe vera

Creams and gels containing extract from the *Aloe* antibacterial *vera* plant have and inflammatory properties. They may help soothe the skin and fight bacteria that could cause infections. The NCCIH state that there is some evidence that Aloe vera could help with psoriasis, evidence than for Mahonia though less aquifolium and indigo naturalis. There are many methods of using Aloe vera, which people can find in many different products. For psoriasis, apply a topical aloe vera gel to areas of the skin that psoriasis affects.

Curcuma longa



Fig. 4: Curcuma longa

Turmeric is part of the same family as the ginger plant. Its active ingredient is called curcumin. Turmeric has unique anti-inflammatory and antibacterial properties, which have led scientists to study it as a treatment for psoriasis. A gel that contained curcumin was used in a study of people with psoriasis. This treatment was mixed with

topical steroids and a low-dairy diet. The people in the study reported a dramatic improvement in their psoriasis symptoms.

Capsaicin



Fig. 5: Capsaicin

Capsaicin is the active ingredient in chili peppers. It's the reason you feel a burning sensation when you eat food seasoned with chilies. The ability to create a "burning" of cells might actually help heal psoriasis flares. Moderate and severe psoriasis that was treated with topical capsaicin cream during a six-week study.

Other natural treatments

There is currently not enough evidence that other herbal remedies are effective treatments for psoriasis. However, herbs that may be useful treatment options for people to try include:

Neem

Extracts of sweet whey Witch hazel Licorice extract Dandelion tea

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