Research and Reviews: Journal of Agriculture and Allied Sciences

Medicinal Plants Used in the Treatment of Skin Diseases– A Review

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Review Article

Received date: 22/08/2016
Accepted date: 29/08/2016
Published date: 31/08/2016

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Keywords: Medicinal plants, Skin Disorders, Ethno medicine, Herbs, Skin Diseases, In-vitro studies.

ABSTRACT

Skin illnesses have been of significant concern as of late because of their relationship with the Human Immunodeficiency Virus and Acquired Immunity Deficiency Syndrome (HIV/AIDS). The study territory has the most astounding HIV contamination rate in South Africa, which made them more inclined to an extensive variety of skin conditions. Contagious diseases because of the hot atmosphere and congestion family units are normal around there, and also blaze mishaps because of the utilization of wood as the real fuel for cooking. It is realized that the laypeople around there rely on upon therapeutic plants for their essential social insurance. However no review has been done in northern Maputaland to report the therapeutic plants used to treat different skin issue. Skin illnesses are various and an every now and again happening wellbeing issue influencing all ages from the neonates to the elderly and cause hurt in number of ways. Keeping up sound skin is critical for a solid body. Numerous individuals may create skin maladies that influence the skin, including tumor, herpes and cellulitis. Some wild plants and their parts are often used to treat these ailments. The utilization of plants is as old as the humankind. Common treatment is shoddy and guaranteed to be protected. It is additionally reasonable crude material for generation of new engineered operators. A survey of a few plants for the treatment of skin infections is given that condenses the late specialized progressions that have occurred around there amid the previous 17 years.

INTRODUCTION

Human skin, the external covering of the body, is the biggest organ in the body. It additionally constitutes the primary line of barrier. Skin contains numerous specific cells and structures. It is isolated into three primary layers viz epidermis, dermis and hypodermis [1]. Every layer gives an unmistakable part in the general capacity of the skin. Epidermis, the external most layer of the skin, changes in thickness in various districts of the body. It is the most slender on the eyelids (0.05 mm) and the thickest on the palms and soles (1.5 mm). The dermis additionally fluctuates in thickness relying upon the area of the skin. It is 0.3 mm on the eyelid and 3.0 mm on the back of the body. The dermis is appended to a basic hypodermis or subcutaneous connective tissue [2,3]. The subcutaneous
tissue is a layer of fat and connective tissue that houses bigger veins and nerves. This layer is critical in the control of temperature of the skin itself and the body. The measure of this layer differs all through the body and from individual to individual. Hair follicles, sweat organs and sebaceous organs are the primary skin members. Skin health is fundamental to total health. Plants have traditionally served as man’s most important weapon against pathogens.

FUNCTIONS OF SKIN

- Since it interfaces with the earth, skin assumes a key part in ensuring (the body) against pathogens and exorbitant water loss.
- Its different capacities are protection, temperature direction, sensation, stockpiling and combination of vitamin D by activity of bright (UV) and the insurance of vitamin B folates, ingestion of oxygen and drugs and water resistance.
- Severely harmed skin will attempt to recuperate by framing scar tissue. This is regularly stained and depigmented.

COMMON SKIN PROBLEMS

Rashes
A rash is a change of the skin which influences its shading, appearance, or surface. A rash might be limited in one a player in the body, or influence all the skin. Rashes may bring about the skin to change shading, tingle, turn out to be warm, uneven, dry, dry, split or rankled, swell, and might be difficult. The causes, and in this way medications for rashes, differ broadly. Determination must check such things as the presence of the rash, different side effects, what the patient may have been presented to, occupation, and event in relatives. Rash can last 5 to 20 days, the finding may affirm any number of conditions. The nearness of a rash may help conclusion; related signs and manifestations are demonstrative of specific maladies. For instance, the rash in measles is an erythematous, morbilliform, maculopapular rash that starts a couple days after the fever begins. It traditionally begins at the head, and spreads downwards.

Skin pigmentation
Pigmentation implies shading. Skin pigmentation issue influence the shade of your skin. Your skin gets its shading from a color called melanin. Extraordinary cells in the skin make melanin. At the point when these cells get to be harmed or unfortunate, it influences melanin creation. Some pigmentation issue influence just fixes of skin. Others influence your whole body. On the off chance that your body makes an excessive amount of melanin, your skin gets darker. Pregnancy, Addison's illness, and sun introduction all can make your skin darker. On the off chance that your body makes too little melanin, your skin gets lighter. A man with albinism may have no shading, lighter than ordinary skin shading, or inconsistent missing skin shading. Diseases, rankles and blazes can likewise bring about lighter skin.

Fungal infections
Innocuous parasites are constantly present on surface of the skin. Disease happens when these life forms go into the body. These diseases are typically shallow, influencing the skin, hair, nails and incorporate competitor's foot, lock tingle and ringworm. Be that as it may, in individuals with smothered resistant framework or who have been taking anti-infection agents for long stretch, the growths may spread to profound inside the body, creating more genuine sickness.

Parasitic infections
These diseases happen after presentation to parasites, for example, lice and scabies.

Scabies
Scabies is a skin infestation which is caused by a tiny mite known as Sarcoptes scabiei. These mites can live on our skin for up to 2 months.

TREATMENT OF SKIN DISEASES

Topical therapies
Topical therapies involve the application of a topical agent on affected sites of skin. Topical agents are compounds of a main agent and a vehicle (base). The main agent acts on lesions, whereas the vehicle acts supplementary to increase absorption of the agent. The horny cell layer in the outermost layer of skin is water-repellent and dense. It prevents water from evaporating from the body, which means it is the
strongest barrier for the topical agent to overcome (70-72) (i.e., the rate-controlling step). The water-repellant horny cell layer generally has a thin sebum membrane on the surface that also functions as a barrier. The site below the granular cell layer is characterized by hydrophilicity and ready absorption of agents.

**Ointments:** Ointments are the most frequently used topical agents. They are less stimulative than other vehicles and are highly protective. They are transparent or translucent semisolids.

- **Oleaginous ointments:** Various oils such as olive oil, vaseline, paraffin, and plastibase are the most frequently used vehicles for oleaginous ointments (73). These ointments are free of water, absorb little water, and are insoluble in water. They are also called water-repellant ointments. The vehicle itself protects and softens the skin and works as an anti-inflammatory. Oleaginous ointments are the least stimulative, and are applied on all kinds of eruptions (74,75). (Examples: white petrolatum, zinc oxide ointment, various steroids).

- **Emulsified ointments:** These are water-in-oil ointments containing emulsifiers such as polyethylene glycol.

**Creams**

Creams, also called oil-in-water emulsive vehicles, are semi-solid mixtures of oil suspended in water containing emulsifiers. Creams are less sticky than ointments, and the color disappears when they are applied thinly (vanishing cream) (76-80).

**Lotions**

Lotions are liquids (usually water) with an agent mixed in. When applied topically, the liquid evaporates, bringing cooling, astringent and protective effects. The agent remaining on the skin acts pharmacologically (81-83).

**Other topical agents**

Tinctures: agents dissolved in alcohol or in alcohol and water, Aerosols: vaporized liquid agents.

**Powder**

The main ingredients of powders are zinc oxides, talc (magnesium silicate), and starches. Powders dry affected sites by absorbing moisture. They also cool the skin, reduce friction, and smooth the skin surface (84). The herbs which are used to treat skin disorder:

- Worm killer (Adu theenda palai), The Bishop’s weed (Oam), Wild turmeric (Kasthuri manjal), True indigo (Sivanar vembu), Black cumin (Karun Seeraham), China root (Paranki pattai), Sweet obtuse leaved mimusops (Theem palai), Indian beech (Pungu), Indian bdellium tree (Valenthira bolam), Indian mulberry (Nuna), Snake wood (Etti), The Portia tree (Poovarasu) [85].

**CONCLUSION**

Herbals can possibly cure various types of skin maladies [86-88]. More than 80% of individuals in India rely on upon customary human services and utilize distinctive plant based items for curing skin related issues. Contrasted and the routine allopathic medications, they have moderately minimal effort and can be of incredible advantage to the number of inhabitants in India when all is said in done and needy individuals specifically. Herbals are a rich wellspring of dynamic fixings and can be more secure and savvy treatment for skin sicknesses extending from rashes to loathsome skin disease [89-92]. More than half of plant species valuable for treatment of skin sicknesses seem, by all accounts, to be limited to woods, so exercises, for example, deforestation, environment devastation, urbanization and so forth may represent a genuine danger to these species. Preservation of these plants with the assistance of nearby cooperation and completing of broad exploration in this appreciation to widen the possibilities of home grown medications in skin ailment treatment is the need of great importance. Unlike other chronic diseases, skin disorders are unique in the sense; they carry a high level of morbidity than mortality. Abatements and recerbations are regular with dermatological conditions. Medications which are powerful, time tried, practical and without uncommon reactions is need of great importance. In that way, a rundown of single herbs and solutions which are prominent in conventional Siddha drugs are being looked into and recorded. Later in-vitro study results led all through the World gives more confirmation in regards to the adequacy of the single herbs which has been being used from time immemorial [100].

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