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Plants used to treat skin diseases

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Abstract

Skin diseases are common, many of the plants in the vicinity have been used by traditional healers in the treatment of skin diseases. Many of these plants have been validated scientifically for their activity against various skin diseases. Some of the plants are also known to be poisonous. Therefore, a need was felt to compile the information available in the literature on the plants used in the treatment of skin diseases. This review is an attempt in this direction.

Keywords: Dioscoreales, herbs, medicinal plants, skin diseases

Introduction [Go to]

Human skin is the outer covering of the body. It is the largest organ in the body. It constitutes the first line of defense. Skin contains sweat, sebaceous oil and sebum glands. It is divided into three main layers viz. epidermis, dermis and subcutaneous tissue. Epidermis is the outermost layer of skin and is composed of five layers. Underneath the basal cell layer is the dermis. It is composed of connective tissue and contains blood vessels, nerves, hair follicles, sebaceous glands and sweat glands. The thickness of the dermis is different depending on the location of the skin. It is 0.3 mm on the eyelid and 3 mm on the back of the body. The subcutaneous tissue is composed of fat cells and connective tissue. The subcutaneous tissue is a layer of fat and connective tissue that protects the underlying muscle and bone. It also helps to regulate the temperature of the body and stores energy. The skin is the largest organ of the body. It is estimated that the skin of an adult human covers an area of approximately 1.8 square meters.

Functions of skin [Go to]

Skin has many functions. It protects the body from the outside world, such as from bacteria and other microbes, chemicals, and physical damage (like cuts and scrapes). It also helps to control body temperature and holds in body fluids so we don't dry out. Skin is also filled with blood vessels that help control body temperature, and with sensory receptors that detect touch, pressure, pain, and temperature. Skin helps to make vitamin D. Skin also stores water, fat, and vitamin D. Skin is made of cells, tissues, and structures that work together to perform these functions.

Common skin problems [Go to]

Skin problems can affect people of all ages, from the newborn to the elderly, and skin can be affected by many different types of problems. Sometimes these problems are the result of a disease that affects the skin, but these disorders can be categorized into one common type.[1]

Eczema

A rash is an area of red, inflamed skin or a group of red dots/spots. There can be caused by irritation, allergies, infections, or other medical problems. Eczema is a general term for an inflammatory condition of the skin. It causes the skin to become red and itchy. It is common in children but can occur at any age.

Viral infections

There are many viruses that can produce skin rashes and infections which the same basis of the skin. Examples include chickenpox, cold sores, genital herpes, shingles, and warts. Viral infections can be mild or severe infections, such as cholera and measles, may also affect the skin. Viral infections caused by warts with papillomavirus.

Bacterial infections

Such infections are caused by a variety of bacteria. Many of the most common cases being staphylococci and streptococci. Impetigo is a common, highly contagious skin infection. It is usually caused by staph or strep bacteria. Cellulitis is a bacterial infection that causes redness, swelling, and pain in the skin. Examples include cellulitis and Lyme disease. Bacterial infections are better treated with antibiotics.

Fungal infections

Dermatophytes fungi are phyla present on the skin. Infection occurs when these organisms enter into the body. Fungi can cause infections in the skin, hair, and nails. Fungal infections are usually caused by a specific fungus and organism. Examples of fungal infections include athlete's foot, ringworm, and candidiasis (yeast infection). Fungal infections are usually treated with antifungal medications.

Parasitic infections

These infections occur when organisms in parasites such as lice and bedbugs.

Pigmentation disorders

Pigmentation disorders are problems in the amount of melanin being produced by the body. Melanin is what gives skin its color. Some pigmentation disorders can cause areas of the skin to lighten, sometimes to color or chromosome, or even to appear of turbulent. An increase in pigment (hyperpigmentation) can also occur in certain areas of the skin. Examples include freckles, age spots, and melasma (a condition that causes dark, brown patches on exposed skin). Pigmentation disorders may be caused by genetics, hormones, or medications.

Tumors and cancers

Some growths on the skin which are thought to be harmful, these normal. Not every skin growth is cancerous. Some tumors are harmless and do not spread. Skin cancer is the most common of all the cancers. There are three major types of skin cancer: basal cell carcinoma, squamous cell carcinoma, and melanoma. Most skin cancers are caused by too much exposure to the sun's ultraviolet rays. Limiting sun exposure and avoiding tanning beds can help prevent skin cancer. Skin cancer is usually treated by surgically removing the cancer and damaging adjacent skin tissue. Early detection helps to improve the chances of cure. Regular self-examinations are therefore, recommended.

Trauma

Trauma describes an injury to the skin caused by a force, or set of forces. Whenever the surface of the skin is broken, the body releases clots to prevent blood loss and infection.

Other conditions

Other skin problems, such as skin irritation and rosacea are among those conditions that cause the world's ungrouped. Examples are a consequence of the collagen and vascular tissues. Rosacea is a chronic skin condition that causes redness and visible blood vessels in the face. It usually affects women who develop pimples, bumps and sores easily enlargement of the nose. Its cause is unknown. Spider veins and varicose veins are enlarged blood vessels that appear near the surface of the skin. Both are more common in women.

Conventional treatment of skin diseases [Go to]

The common medicines that might be used include:[2]

1. Antihistamines: These medicines, like Benadryl or Claritin, are often used to relieve or prevent infection caused by an allergic reaction. Some of these medicines can cause drowsiness.
2. Antibiotics: These medicines are used to treat bacterial infections. Examples of antibiotics include Keflex® and Cleocin®. Some antibiotics may cause stomach upset or diarrhea. Antibiotics should be used only as directed by a doctor because overuse can lead to bacteria that are resistant to antibiotics.
3. Antifungal agents: Common and antifungal drugs such as miconazole and nystatin can be used to treat some yeast infections.
4. Antiviral medications: Antiviral medications, such as acyclovir and famciclovir, can be used to treat viral conditions including some cases of psoriasis and eczema.
5. Steroids: Steroids, like Cortisone® and Prednisone®, are often used to treat psoriasis and other conditions. Perhaps a doctor may prescribe steroids, but these medicines can have many side effects.

Herbal drugs for skin diseases [Go to]

Herbal drugs are widely used in the treatment of various skin ailments such as either skin diseases. Some of the herbs have antibacterial activity, while the majority are used empirically due to long history of use. Results herbal medicines are also viewed more for the treatment of injury diseases than as preventive measures. Some of the herbs are used in the form of extracts, while others are used in the form of powdered material. Some of the herbal drugs have been found to be very effective in the treatment of skin diseases. Some of the herbal drugs which are commonly used in the treatment of skin diseases are mentioned below.

Achyranthes aspera (Common name: Prickly chaff flower, Devil's horsewhip. Family: Amaranthaceae)

Traditionally, the plant is used in boils, eczema and expulsion of dust and other skin diseases. The ASS-I, a saponin isolated from the plant has been found to be active against the skin fungus *Trichophyton rubrum*.[3] Other saponins isolated from the plant are achyranthosides A-D and oleanolic acid 3-O-beta-D-glucuronopyranoside.[4] Saponins (10%) at 4g/L by the Sabouraud dextrose broth dilution method were found to be active against *Trichophyton rubrum*, *Microsporum canis*, *Microsporum gypseum*, *Epidermophyton floccosum*, *Trichophyton mentagrophytes* and *Trichophyton tonsurans*.[5] Ethanolic extract of the plant has been found to be active against *Staphylococcus aureus*, *Bacillus subtilis*, *Escherichia coli* and *Pseudomonas aeruginosa*.[6] The plant has also been found to be active against *Candida albicans*.[7] Ethanolic extract of the plant has been found to be active against *Candida albicans*.[8] Ethanolic extract of the plant has been found to be active against *Candida albicans*.[9] Ethanolic extract of the plant has been found to be active against *Candida