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PHARMACODYNAMIC PERSPECTIVE OF DRUGS USED IN SKIN AILMENTS: AN AYURVEDIC REVIEW

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ABSTRACT

Ayurveda is oldest medical system which provides therapeutic options for many health ailments including skin diseases. These diseases are classified under the heading of Kshudra Roga in which Visarpa, Visphota and Sheetapitta are common skin ailments. Drugs possessing Rakta Shodana, Vishagna and Krimighna properties can be used for treating such diseases. The skin disorders referred as Twak Vikaras in ancient Ayurveda which mainly arises due to the several factors including environmental, genetic, dietary and daily routine, etc. Drugs with Tikta and Katu Rasas exert Kandughna, Lekhana, Shodhana and Kusthprashamana properties, thus relieves symptom of many skin diseases. The drugs such as Khadira, Nimba, Haritaki, Vibhitaki, Guduchi, Amalaki, Karanja, Chakramarda and Vasa, etc. are considered useful in skin diseases due to their antimicrobial, antioxidant, woundhealing and anti-inflammatory properties. This Ayurvedic review expresses descriptions of drugs used in skin ailments with special emphasis to their pharmacodynamic roles in skin problems.

KEYWORDS: Ayurveda, Skin, Twak Vikaras, Pharmacodynamic, Kustha.

INTRODUCTION

The skin is one of the important organs of human body which is very vulnerable to many disorders due to the continuous exposure to the external environment. Factors such as poor sanitation, pollution, poverty, genetic predisposition, allergic susceptibility and drug abuse, etc. may become causes of skin problems. The major skin diseases are Udumbara, Kapala, Mandala, Rsyajihva, Siddhma, Kakanaka, Pundarika, Charma Kushta, Vipadika, Alasaka, Kitiba, Dadru, Pama, Sataru, Vicharchika, Sphota and Charmadala, etc. The pathogenesis of disease initiated due to the vitiation of Dosha and disturbance in Rakta Dhatu as mentioned in Figure 1. Vitiated Vata causes Rukshata and Kharata, Pitta imbalances may leads fluidity and itching, Kapha is the root cause of such types of disease which creates obstruction in Strotas, leading to edema and other symptoms.[1-4]

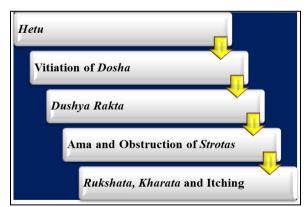


Figure 1: Pathogenesis of Twak Vikara.

Ayurveda provides comprehensive approaches for managing various skin diseases. The therapeutic regimen of Ayurveda exhibits *Kusthaghna*, *Krimighna*, *Kandughna*, *Varnya* and *Lekhana* properties, therefore cures symptoms of skin problems. According to modern science drug possessing antifungal, antibacterial, anti-inflammatory, hepato-protective, antihistaminic and antiviral effects can be used for treating skin related disorders. [4-6]

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Ayurvedic Drugs for Twak Vikara^[5-8]

- Kustha possesses Katu and Tikta Rasas along with Laghu, Tikshna and Ruksha Gunas. It alleviates Kapha and Vata Doshas thus acts as a Kusthaghna, Krimighna, Swedajanana and Varnya agent.
- Khadira possesses Tikta & Kashaya rasas, Laghu & Ruksha gunas and Katu vipaka, by virtue of these properties Ayurveda drug reduces Kapha and Pitta doshas. Shothahara and Kandughna actions relive symptoms of disease.
- > Guduchi offers Katu and Kashaya rasas, Laghu guna, Madhura vipaka and Ushna virya, these attributes imparts Krimighna, Dahaprashmana and Kusthaghna properties which help greatly in skin problems.
- Nimba contains Tikta and Kashaya Rasa, Laghu gunas, Katu vipaka and Sheeta virya, thus imparts Kustaghna, Vranashodhaka and Kaphapitta hara actions
- ➤ Haritaki offers Laghu gunas, Madhura vipaka and Ushna virya thus provides Kusthaghna, Krimighna and antioxidant effects.
- Amalaki is known for Sheeta gunas and Madhura vipaka acts as Kusthaghna, Rasayana, Dahaprashmana and Krimighna agent. These properties give therapeutic benefits in various skin disorders.
- Vibhitaki offers Kashaya rasa, Laghu gunas, Madhura vipaka and Ushna virya; due to these properties it imparts Tridoshahara, Krimighna and Raktashodhaka properties.
- Karanja has Tikta and Kashaya rasas, Laghu gunas, Ushna virya and Katu vipaka. It imparts Kandughna, Vranaropaka and Kusthaghna properties.
- ➤ Vasa exhibit Tikta and Kashaya rasas, Laghu gunas, Katu vipaka and Sheeta virya. These characteristics provide Krimighna, Kusthaghna and Raktashodhaka actions therefore give therapeutic benefits in skin problems.
- > Chakramarda offers Katu rasa, Ruksha gunas, Katu vipaka and Ushna virya, by virtue of these characteristics it possess Lekhana, Krimighna and Kusthaghna actions in skin ailments.

Pharmacodynamic Role of Ayurvedic Drugs in *Twak Vikara*

The Ayurvedic drugs used in skin disease offers *Tridoshahara* properties, thus pacifies *Kapha* and *Pitta doshas* mainly. These drugs possess specific properties as mentioned below which helps in skin problems:

- Kushtaghna (anti-skin disease)
- **♣** *Krimighna* (antimicrobial)
- * Rasayana (rejuvenative)
- **♣** Vrana Shodhana (wound cleansing)
- **↓** *Varnya* (complexion-enhancing)

Ayurvedic drugs affect *Twak Dhatu* through their *Raktashodhaka* and *Raktaprasadana* actions. These

drugs act as rejuvenatives and immune modulators thus reduces symptoms of allergy and improve overall skin health. The *Vranaropaka* and *Vranashodhaka* effects help to cleans wound of skin. Ayurvedic drugs relieve symptoms of *Kandu*, *Vaivarnya*, *Rukshata*, *Srava*, *Daha* and *Ruja*, etc.

The topical formulations (*Lepa*) impart *Kandughna*, *Krimighna*, *Varnya* and *Kusthaghna* properties thus reduce infection and inflammation. Ayurvedic drugs penetrate deeper skin tissue and their *Lekhana* property cures skin problems effectively. The *Tridoshaghna* action of natural drug alleviates symptoms of *Vicharchika* and other skin diseases. The *Tikta* and *Kashaya* properties of most of the Ayurvedic drugs help in the reduction of *Ama* which imparts *Srotosuddhi* action. [7-9]

Modern Perspectives

According to modern research the natural remedies possesses anti-inflammatory, immunomodulatory, antiallergic, cytoprotective, antimicrobial and antioxidant properties. These properties works as follows in skin problems^[10,11]:

- ✓ The anti-allergic effects counteract the main cause of skin disease
- ✓ Antioxidant actions protect tissues from oxidative damage thus reduces risk of skin lesion.
- ✓ The immunomodulatory action helps to diminish hypersensitivity against allergens.
- ✓ The immune boosting effect increases combating power against the allergic probability.
- ✓ Some compounds increases phagocytic activity and NO synthesis thereby manifests protective effect.
- ✓ The antimicrobial property of some drugs reduces infections of skin disease, offers anti-inflammatory action and suppresses atopic dermatitis formation, thereby gives symptomatic relief in skin diseases.

CONCLUSION

Kushtha is a Tridoshaja Vyadhi of skin mainly dominated by Kapha dosha. Therefore Kaphavatahara type of drugs possessing Katu and Tikta Rasa along with Ushna potency gives therapeutic relief in disease symptoms. Ayurvedic drugs which offer Rakta Shodhana and Kapha balancing properties can be recommended for different skin ailments. The anti-inflammatory, antimicrobial, immunomodulatory and antibacterial activities of natural remedies provides relief in disease manifestations. The Kusthaghna, Kandughna, Krimighna, Raktashodhaka, Raktaprasadaka, Rasayana, Shothahara and Srotoshodhana actions of Ayurvedic drugs provides skin protecting action.

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