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A scientific review on Dadrukushta with special reference Dermatophytosis and its management through to Ayurveda

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ABSTRACT

Skin is the largest organ of the body and skin diseases has a high prevalence throughout the world and fungal infection of skin is one of them. In the high populated countries like India and China the incidence of skin diseases is considerably increased in recent years due to predisposing factors like warm, humid climate, crowded living conditions, hygiene and poor nutrition. In Ayurveda all the skin related diseases are explained under main heading of Kushta and skin fungal infections termed as Dadrukushta (Dermatophytosis). Ayurveda has a versatile approach towards skin disorders depending on the requirement of the patient. The present article is aimed at understanding the disease *Dadrukushta* with special reference to Dermatophytosis and its management through Ayurveda.

Key words: Kushta, Dadrukushta, Dermatophytosis, Ayurveda, Skin, Fungal

INTRODUCTION

Sushruta explained Dadrukushta Acharya as Sankramika or Aupasargika Roga. Dadru spreads person to person by Krimi through Sweda Mala. It can be diagnosed by the symptoms like Raga, Pidaka, Mandala in the Adhishtana that is Twak.^[3] Dadrukushta is mentioned under Kshudra Kushta by Acharya Charaka^[2] and Acharya Sushruta under

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Access this article online **Quick Response Code** Website: www.jaims.in DOI: 10.21760/jaims.8.5.7 Mahakushta.^[1] Dadrukushta is Pitta-Khapaja Vyadhi as per Acharya Charaka^[4] and Acharya Vaghbhata.^[5] On the other hand Khaphaja Vyadhi as per Acharya Sushruta.^[6]

Causative factors for all skin disorders according to Avurveda are as follows

- Mithyahara Vihara (Improper and irregular diet habits)
- Dosha Vaishamya (Vitiation of the Biological forces)
- Srotavarodha (Obstruction of the channels)
- Vegadharana (Suppression of natural urges)
- Viruddhahara (Incompatible diet)
- Krimi (Infections)
- Manovikaras (Emotional stress factor)

Modern view

In modern science there are three genera of superficial dermatophytosis as Trichophyton Microsporum and

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Epidermophyton. They are grouped according to their natural habitat as geophilic (soil), zoophilic (animals), and anthrophilic (humans).^[7] Transmission may be indirect or direct bodily contact. Clinically, these fungal infections are labeled according to the region involved. These are as follows:^[13]

- **1.** Tinea capitis occurring on the scalp, especially in children.
- 2. Tinea barbae affecting the region of beard in adult males.
- **3.** Tinea corporis involving the body surface at all ages.
- 4. Tinea cruris occurs most frequently in the region of groin in obese men, especially in hot weather.
- 5. Tinea pedis or 'athlete foot' is located in the web places between the toes.
- 6. Onchyomycosis shows disintegration of the nail substance.
- **7. Tinea vesicolor** caused by Malassezia furfur generally affects the upper trunk.

Predisposing factors

Warm, humid climate, poor nutrition and hygiene, obesity, diabetes mellitus and debilating illness.^[7]

Symptoms

Common symptom is pruritus in all types of dermatophytosis.^[7] Other clinical features are intense itching, annular erythematous scaly lesions, the active border consists of papulovesicular lesions, and in advancing stage the lesions spread peripherally with central clearing and pigmentation.^[8]

Clinical features of *Dadrukushta* and Dermatophytosis (Mycoses / Tinea / Ringworm) are similar with each other so the co-relation between *Dadrukushta* and Dermatophytosis is done on the basis of similarities of clinical features in both *Ayurveda* and Modern medicine.

Prevalence rate

The prevalence rate of this infection is 2% among young adults and increases to 20% among individuals

of 40-60 years age.^[11] 39% of the world population is suffering from Tinea infections. In India also, 5 out of 1000 people are suffering from Tinea infections.^[12]

Nidana for Dadrukushta

There is no separate *Nidana* for *Dadrukushta*. *Dadrukushta* spreads from person to person by *Malaja Krimi* through *Sweda* (contact with the infected person and contact with the wearables of the infected person etc.)^[14] Due to the sharing of towels, bed sheets, soap, hand kerchief etc. of infected person causes the spreading of micro - organism from one person to another person.^[15]

Dadrukushta is likely similar to fungal infection of the skin in which the fungal spores has been transferred from a diseased person to a healthy person by above explained modes.

Samprapti of Dadrukushta

Sharing the wearables of infected person (contagious/Sankramika)

 $\mathbf{1}$

Sankramika of Krimi from Purusha to Purusha (Malaja - Bahya Krimi)

 $\mathbf{1}$

Krimi enters into Twak through Sweda and vitiates Tridosha, Twak, Rakta and Lasika

 $\mathbf{1}$

Dadrukushta (Kandu, Pidika, Raaga, Mandala, Visarpini)

Table 1: Secondary causes for Dadrukushta(Dermatophytosis) as per Ayurveda.

| Mithyahara | Ch.S [16] | Su.S [17] | B.S [18] | H.S [19] | M.N [20] |
|--------------------------------------|---------------------|--------------|--------------------|-------------|--------------------|
| Adhyashana | + | + | - | + | + |
| Vishamashana | + | + | - | - | - |
| Atyashana | + | + | - | - | - |
| Intake of food during indigestion | + | + | - | - | + |

| Continuous and excessive use of Madhu, Fanita, Matsya, Lakucha, Mulaka, Kakamachi, and intake of above substances while having Ajirna | + | - | - | - | - |
|---|-----|-------------|---|-------------|-----|
| Excessive Snehana | - | - | - | - | - |
| <i>Vidahi Ahara</i> without emesis of undigested food | + | - | + | + | - |
| Rasataha | | | | | |
| Excessive intake of <i>Amla</i> and <i>Lavana</i> <i>Rasa</i> | + | - | - | - | + |
| Dravyataha | | | | | |
| Excessive intake of <i>Gramya, Anupa,</i> | - | - | + | - | - |
| Audaka, Mamsa | | | | | |
| Audaka, Mamsa Navanna, Dadhi, Masa, Matsya, Mulaka, Tila, Pishtanna, Kshira, Guda | + | - | - | - | + |
| Navanna, Dadhi, Masa, Matsya, Mulaka, Tila, Pishtanna, Kshira, | + | - + | - | - | + |
| Navanna, Dadhi, Masa, Matsya, Mulaka, Tila, Pishtanna, Kshira, Guda | + | - + - | - | - - + | + |
| Navanna, Dadhi, Masa, Matsya, Mulaka, Tila, Pishtanna, Kshira, Guda Dushivisha | + + | - + - | - | - - + | + + |

Abbreviations: Ch.S - Charak Samhita, Su.S - Sushrut Samhita, B.S - Bhel Samhita, H.S - Harit Samhita, M.N -Madhav Nidan

Table 2: Dosha Dushya Sankalpana.

| | Ch.S | Su.S | A.H | A.S | M.N |
|-------|------------------|-------|------------------|------------------|------------------|
| Dosha | Pitta - Kapha | Kapha | Kapha - Pitta | Kapha - Pitta | Kapha - Pitta |

| Dushya | Twak, | Twak, | Twak, | Twak, | Twak, |
|--------|--------|--------|--------|--------|---------|
| | Rakta, | Rakta, | Rakta, | Rakta, | Rakta, |
| | Mansa, | Mansa, | Mansa, | Mansa, | Lasika, |
| | Ambu | Ambu | Ambu | Ambu | Ambu |
| Srotas | Rasa, | Rasa, | Rasa, | Rasa, | Rasa, |
| | Rakta | Rakta | Rakta | Rakta | Rakta |

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Abbreviations: Ch.S - Charak Samhita, Su.S - Sushrut Samhita, A.H - Ashtanga Hridaya, A.S - Ashtanga Sangraha, M.N - Madhava Nidana

Table 3: Sign & symptoms of Dadrukushta accordingto various Acharayas and Modern Science.

| S N | Signs & Symptoms | Char aka | Sushr uta | A. H | A .S | M .N | Y. R | Mod ern |
|--------|--|-------------|--------------|---------|---------|---------|---------|------------|
| 1 | <i>Kandu</i> (itching/pru ritus) | + | - | + | + | + | + | + |
| 2 | <i>Raga</i> (redness/er ythema) | + | - | + | + | + | + | + |
| 3 | Atasi Pushpavat Pidika (macular rashes similar to flax flower) | - | + | + | - | - | - | - |
| 4 | Tamra Varna Pidika (copper coloured macular rashes) | - | + | - | - | - | - | - |
| 5. | <i>Visarpani</i> <i>Pidika</i> (diffused macular rashes) | - | + | + | + | - | - | - |
| 6 | Dirgha Pratana (tendril like macular rashes) | - | - | + | + | - | - | - |

| 7 | <i>Unnata Mandala</i> (raised border ring) | - | - | + | + | + | - | - |
|---|--|---|---|---|---|---|---|---|
| 8 | Scaling | - | - | - | - | - | - | + |
| 9 | Vesiculation s | - | - | - | - | - | - | + |

Abbreviations: A.H - Ashtanga Hridaya, A.S - Ashtanga Sangraha, M.N - Madhava Nidana, Y.R - Yogaratnakara

Table 4: Differential diagnosis ofDadrukushta(Dermatophytosis).

| S N | Disease | Symptoms | Diagram |
|--------|---|--|---------|
| 1. | <i>Vicharchika</i> (Eczema) | Bahusraav a Yukta Pidika originate in Vicharchika | |
| 2. | Pama Kushta (Scabies) | Scattered <i>Pidika</i> with different <i>Varna</i> (white, red, black) | |
| 3. | <i>Dadrukushta</i> (Dermatophyt osis) | Atasi Pushpa like Pidika, Varna with Mandala (round patches) | 0 |

Clinical examination as per modern medical science^[21]

Typical infections have an annular appearance that patients refer to as "ringworm" and following table showing sign and symptoms of Tinea.

| ġ | SN | Type of Tinea | Clinical manifestations | Prevention |
|---|----|---------------|---|--|
| 1 | 1. | Tinea pedis | Most common infection of foot, Variable erythema, | Prevention strategies include allowing |

| | | Edema, Scaling, pruritis, and occasionally vesiculations, Involvement may be widespread or localized but generally involves the web space between the fourth and fifth toes. | the feet to breathe plenty of air and keeping them clean and dry. Wearing sandals in public showers or in locker rooms is a smart idea. |
|----|---------------|---|---|
| 2. | Tinea capitis | Infection of the scalp, produce a relatively non- inflammatory infection with mild scale and hair loss that is diffuse or localized | One should not share towels, combs, hairbrushes, hats or pillowcases with other family members, friends or visitors. Wash the towels in warm, soapy water after each use. |
| 3. | Tinea cruris | Mainly involvement of groin region, Scaling, Erythematous eruption sparing the scrotum | Basic hygiene can also be of assistance in treating and preventing ringworm. Holding the skin clean and dry may help to prevent infection. Public safety includes wearing sandals in public showers or locker rooms and avoiding shared towels and items. |
| 4. | Onchyomycosis | Mostly affected nails, Opacified, thickened nails, Sub-ungual debris, Distal-lateral variant is most | Avoiding yeast infections begins with a healthy diet and proper hygiene. Wearing loose- |

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| | common, Proximal | fitting garments |
|--|-------------------|------------------|
| | subungual | made of natural |
| | onychomycosis | fabrics can also |
| | may be marker for | help avoid |
| | HIV infection | infection. |
| | | Washing |
| | | undergarments |
| | | in very hot |
| | | water and |
| | | adjusting |
| | | feminine items |
| | | will also help |
| | | avoid fungal |
| | | growth too. |
| | | - |

Diagrams of various Fungal Infections



Tinea pedis



Tinea capitis



Tinea cruris



Onchyomycosis

Pathological Examinations

a) Potassium Hydroxide (KOH) Microscopy^[9]

Potassium hydroxide (KOH) may be used to diagnose tinea from skin scrapings, nails scrapings, or hair direct microscopic examination.

b) Fungal culture^[10]

Skin scrapings should be sent for culture whenever infection of the dermatophytes is suspected. It takes at least two weeks before the fungus grows enough to identify itself. Nail clippings and hair samples should be examined in the same way as skin scrapings.

Modern management of Dermatophytosis

Tinea Pedis

Athlete's foot is often treated with topical antifungal ointments which can be purchased online or over-thecounter. Severe infections can also require supplementary oral medication. The feet will also need to be treated and kept dry in order to help kill the fungus.

Tinea Capitis

Although oral Griseofulvin has been the standard treatment for tinea capitis, newer oral antifungal agents such as terbinafine, itraconazole, and fluconazole are effective, safe, and have shorter treatment courses.

Tinea Curis

Tinea curis is commonly known as Jock itch. Jock itch care typically requires the use of topical antifungal ointments and proper grooming. Over-the-counter medications improve many cases of jock itch, though

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some require prescription medications. This may also help destroy the infection by washing the infected area and keeping this dry.

Onchyomycosis

Treatment of infections with leasts depends on their severity. Standard treatments include creams, tablets, or suppositories available through prescription, or over-the-counter, or online. Complicated infections can take complex therapies.

Ayurvedic management of Dadrukushta (Dermatophytosis)

The basic principle of treatment as per *Ayurveda* is *Nidana Parivarjana*. Hence avoid the causative factors and take special care to protect the skin. Following measures should be taken to reduce the risk of infection with the fungal skin and to prevent of spread.

- Dry the skin thoroughly after a bath.
- To remove any fungi, wash socks, clothes and bed linen frequently by soaking them in warm water
- Wear clean flip flops or plastic shoes in damp areas, as well as common areas such as showers, saunas and pools.
- Wear loose fitting clothes made of cotton or material to keep the skin away from moisture.
- Do not share towels, hair brushes and combs that might carry a fungus. The treatment of *Dadru* should be done on the basis of their cause.
- Make sure about the cleanliness of the equipment's at haircut shops & saloons.

As per Ayurveda treatment of Dadru are

- 1) Shodhana Chikitsa
- 2) Shamana Chikitsa
- 3) Lepana Karma (Local Applications)
- 1) Shodhana Chikitsa

The excretion of vitiated *Doshas* from the diseased individual is very important role of *Shodhana Chikitsa*. To remove vitiated *Pitta* and *Rakta* in *Dadrukushta*

Virechana Karma and *Raktmokshana* should be carried out.

Virechana Karma

Purvakarma

Snehana Karma - Snehana should be done with *Mahatiktaka Ghirta* daily by increasing manner starting from 50 ml, 150 ml, and 250 ml up to emergence of manifestation of *Samyak Snehana* in the early morning after the completions of physiological urges.

Swedana Karma - After the completion of the Snehana and before the Virechana Karma, Sarvanga Sweda should be given after Sarvanga Abhyanga.

Pradhankarma

Virechana Karma - Following *Samyak Snehana* and *Shodhana* and patient examination, the planned induce of purgation should be given to patients by giving *Trivrit Kwatha* early in the morning. Patients should be observed for *Samyak Virechana Lakshanas* and *Samsarjana Karma* should be followed as scheduled.

Rakta - Mokshana Karma - Rakta Mokshana should be done by using No.18 bore needle early in the morning and near about 60 ml blood should be withdrawn per sitting.

2) Shamana Chikitsa

Some commonly used classical *Ayurvedic* formulations in *Dadrukushta* are as follows:

Table 6: Ayurvedic formulations in Dadrukushta

| SN | Drug | Dose | Anupana |
|----|--------------------------|------------------------------------|--------------------|
| 1. | Arogyavardhini Rasa | 500mg twice a day | Luke warm Water |
| 2. | Gandhaka Rasayana | 500mg twice a day | Luke warm Water |
| 3. | Panchatiktaka Guggulu | 250mg twice a day | Luke warm Water |
| 4. | Kaishor Guggulu | 500 mg, twice a day, after food | Luke warm Water |

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| 5. | Panchtikita Ghrita Guggulu | 500 mg, twice a day, after food | Luke warm Water |
|-----|-----------------------------------|--|----------------------|
| 6. | Aaragvadhadi Kashaya | 15 - 20ml twice a day, before food | Sambhag Ghrita |
| 7. | Nimbadi Kashaya | 15 - 20ml twice a day, before food | Water |
| 8. | Aragwadha Kashaya | 15 - 20ml twice a day, before food | Water |
| 9. | Guduchyadi Kashaya | 15 - 20ml twice a day, before food | Water |
| 10. | Patolakaturohinyadi Kashaya | 15 - 20ml twice a day, before food | Water |
| 11. | Manjisthadi Kashaya | 15 - 20ml twice a day, before food | Madhu |
| 12. | Aragvadhasava | 15 - 20ml | Water |
| 13. | Khadirarishta | 15 - 20ml | Water |
| 14. | Chakramarda (Cassia tora Linn) | <i>Swarasa-</i> 10-20 gm <i>Churna-</i> 1- 6gm | Water |
| 15. | Panchnimbadi Churna | 5gm(3-5 <i>masha</i>) | Madhu, Ushna Jala |
| 16. | Haridra Khanda Churna | 3-5gm | Dugdha |
| 17. | Gomutra Siddha Haritaki | 5gm at night | Lukewarm water |
| 18. | Hinguliya Manikyarasa | 8mg/ml | Water |

3) Lepana Karma (Local Applications)

Lepa should be applied as per area of skin lesion. Mostly applied in the morning and bedtime.

- Dashanga Lepa
- Karanja Taila

- Durvadi Lepa
- Aragvadhadi Lepa
- Edagajadi Lepa
- Maha Marichyadi Tail
- Nimba Taila
- Chakramarda Taila

Pathya - Apathya to be followed in Dadrukushta

- Maintain daily dietary timings, vegetarian food will be better.
- Hold very hygienic.
- Regular exercise based on physical capacity, for at least 1 hour.
- Get breakfast sprouts, nuts, and vegetable juices or fruit juices.
- Stop excess salty, spicy, and fatty, candy, drug misuse and fast food.
- Ksheera and Ghritha are used every day as Rasayana.
- Body massage (Abhyanga)
- Minimum 7 8 hour sleep is compulsory
- Avoid late at night awakening (Ratri Jagarana)
- Follow Yogasanas to alleviate mental stress and release toxins
- Adopt holistic approach
- Practice positive thoughts

DISCUSSION

Dadrukushta is the prevalent disease in developing countries such as India, with the majority of the population living in unhygienic conditions. Dadru has mentioned nearly all the Acharayas along with their management. Thus, Ayurveda is able to cure the disease of the skin like Dadrukushta. As this is one among the relapsing type of skin disease so patient was advised to follow Pathyapthya like Ahara, Vihara, Achara, Vichara. Repeated Shodhana as per classics in accordance with Dosha, Kala, Agni and Desha etc., should be administered to control the frequency of

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recurrence and further spread chances of recurrences are more in fungal lesions. Utmost care should be taken for skin protection.

CONCLUSION

Dadrukustha is a specific skin condition that is clinically replicated by dermatophytosis or tinea. It can be concluded that the use of *Chikitsa Upakramas* mentioned in *Ayurveda* such as *Shodhana, Shamana* (formulations such as *Arogyavardhini Vati, Gandhaka Rasayana* etc.) and *Bahirparimarjana* (*Lepa* of local application *Karanj Taila, Nimba Tail* etc.) are effective in the management of *Dudrukushta*. Clinical features of *Dadrukushta* and Dermatophytosis (Mycoses / Tinea / Ringworm) are similar with each other so the corelation between *Dadrukushta* and Dermatophytosis is done on the basis of similarities of clinical features in both *Ayurveda* and Modern medicine.

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