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# A REVIEW ON EFFECT OF NEELITULSYADI KASHAYAM IN DADRU VIZ- A -VIZ TAENIA CORPORIS

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#### **ABSTRACT**

The skin of a person is the index of psychosomatic health. Nowadays various types of fungal diseases are on the rampage, *Dadru* is one of them. *Acharya Charaka* described *Dadru* under *Kshudra Kushtha*, which is characterized by *Udagata Mandala* (raised patch) associated with *Kandu* (itching), *Raga* (redness), and *Pidika* (eruptions) and is *Pitta Kaphaja* predominance skin disease. It has a resemblance to fungal dermatophytosis. The recurrence of this disease is common while treating with modern medicines and has side effects too. To overcome adverse consequences, the need arises for natural herbal remedies. This study aimed to explore and review the probable role of *Neelitulasyadi Kashayam* in the management of *Dadru*. *Neelitulsyadi Kashayam* is an Ayurvedic polyherbal formulation which contains fourteen ingredients which are specifically indicated to *Luta Visha*, but is widely used in chronic skin

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disorders in Keraliya Ayurvedic Practice. As Dadru Mandal Sannibham is specific characteristic

of Lutavisha, and because the Kashayam is Tridoshahara, Srotoshodhak, Kushthaghna and

Vishaghna hence the drug of choice for the research work. This article aims at reviewing the

clinical evaluation of Neelitulasyadi Kashayam in Dadru.

Research paper

Key words: Dadru, Lutavisha, Neelitulasyadi Kashayam, Taenia corporis.

INTRODUCTION

Skin is the most important and largest organ from the protective as well as cosmetic point of

view thereby playing an important role in the expression of beauty. Skin disease account for 10-

15% of all consultations in general practice where 5 out of 1000 people are suffering from

Tinea infection<sup>2</sup>. Tinea corporis is a frequently occurring skin disease, especially with poor

hygienic conditions. It may have a variety of appearances; most easily identifiable are the

enlarging raised red rings with a central area of clearing (ringworm)<sup>3</sup>. The prevalence rate of

superficial mycotic infection worldwide is 20%-25% (World Health Organization). In India, 5

out of 1000 people, suffer from Tinea infections<sup>4</sup>. In the present era, everyone is partaking

Viruddhahar directly or indirectly, in one way or the other. In accordance with

Vagbhatacharya's quotation, this Viruddhahar can be termed as 'Garavisha'. 11On similar lines

the long term and consistent consumption of Viruddhahara can result in the formation of

Dushivisha which in turn can become an etiological factor of Kushtha<sup>3</sup>.

Hence, besides Nidan Parivarjan it is essential to eliminate (Shodhan) and pacify (Shaman) the

systemic Doshadushti arising thereof. It can be managed by Shodhana, Shamana and

Bahiparimarjana (topical) Chikitsa. So, Neelitulasydi Kashayam pacify the condition by its

Tikta Rasa, Vishaghna and Sroto-shodhana properties. Ingredients are having Kaphavatahara

(reduce Kapha and Vata), Vishagna (anti-toxic), Kushtagna (pacifies skin diseases),

Vedanasthapana (reduce pain), Rakthaprasadana (Purifies blood) properties.

Nidana Panchaka of Dadru Kushtha:

Detail about Nidana Panchaka of Dadru Kushtha is depicted in Table. 1

Samprapti Ghataka

Table 2 provides information on Samprapthi Ghataka of Dadru Kushtha. Acharya Charaka

gave a description, Dadru is found in Tvaka's fourth layer. Kushtha was described by Acharya

Sushruta in the fourth and fifth layers of Tvaka. Both Charakacharya and Vagbhatacharya

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emphasised the roles of *Agni* and *Viruddhahar* in the *Samprapti* of many ailments, including *Kushtha*<sup>6</sup>. This *Viruddhahar* is a causal factor of *Raktadushti* and *Kushtha*<sup>7</sup>, with the latter also stated as one of *Raktapradoshaj Vyadhi's Lakshana*<sup>8</sup>. As a result, *Viruddhahar* generates *Raktadushti*, who manifests as *Kushtha*, one of the eight *Mahagada*<sup>9</sup> 10. *Dadru* is classed as a *Kshudra Kushtha* by *Acharya Charaka* and a *Maha Kushtha* by *Acharya Sushruta* among the eighteen types of *kushtha roga*.

#### Aim and objectives

To review and explore the role of *Neelitulsyadi Kashayam* in the management of *Dadru*.

#### MATERIALS AND METHODS

The present paper is based on an examination of historical data, pertinent published research works, and contemporary literature. Through a review of the literature available, an effort has been made to explore the likely role and mode of action of *Neelitulsyadi Kashayam* in the management of *Dadru*.

#### **DRUG REVIEW**

#### Neelitulsyadi Kashayam

The detail about ingredients *Neelitulsyadi Kashayam* is mentioned in Table 3<sup>11</sup>. Properties and action of contents of *Neelitulsyadi Kashayam* are depicted in Table 4<sup>12</sup>.

#### **Method of preparation:**

All ingredients are taken in equal quantity and made into course powder. 8 parts of water is added to it and made to boil and reduced to 1/4th part<sup>13</sup>.

#### **DISCUSSION**

# Neelitulsyadi kashayam

Neelitulsyadi kashayam<sup>14</sup>; a formulation from Prayog Sammuchayam, a Malayalam text, is Vishaghna especially indicated in Luta Visha but is widely used in chronic skin disorders in Keraliya Ayurvedic Practice. As Dadru mandal Sannibham is specific characteristic of Lutavisha, and because the Kashayam is Tridoshahara Srotoshodhak, Kushthaghna and Vishaghna hence the drug of choice. The Kashayam pacify the condition by its Tikta Rasa, Vishaghna and Sroto-shodhana properties. Ingredients are having Kaphavatahara (reduce Kapha and Vata), Vishagna (anti-toxic), Kushtagna (pacifies skin diseases), Vedanasthapana (reduce pain), Rakthaprasadana (Purifies blood) properties.



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#### Mode of action of Neelitulsyadi kashayam in Dadru Kushtha

The maximum ingredients in Neelitulsyadi kashayam contains Tikta, Katu, and Kashaya Rasa. In addition to having qualities like *Deepana* and performing activities like *Kandughna*, Vranaprasadana, and Krimighna, Katu Rasa is also reported expand the Srotas<sup>15</sup>. Tikta Rasa possesses Vishaghna, Krimighna, Dahaprashamana, Kandughna, and Kushthaghna properties. 16 Kashaya Rasa possesses Vranaropana, Kledashoshaka, and Kapha-Rakta-Pitta Prashamana. 17 The majority of the ingredients contain Laghu and Ruksha Guna. Laghu Guna has Lekhana and Ropana qualities. 18 Ruksha Guna possesses the qualities of Shoshana and Rukshana. 19 The majority of the constituents are Ushna Veerya, which contains Vatakaphashamaka and Ashupaka properties that allow it to act quickly in minute channels.<sup>20</sup> Katu Vipaka assists in Srotas Shodhana (removal of obstructions in microchannels).

#### Pharmacological action

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*Neeli* (*Indigofera tinctoria*) has the anti-bacterial and epidermal layer repairing properties<sup>21</sup>. Tulasi (Ocimum sanctum) shows antimicrobial activity, antifungal activity, Wound healing activity and antioxidant properties. 22 Ishwarimool (Aristolochia indica) has antimicrobial activity, Anti-inflammatory activity<sup>23</sup>. Sariva (Hemisdesmus indicus) is commonly found throughout India. Studies have revealed its use in anti-inflammatory, antimicrobial, antiulcerogenic, anti-oxidant<sup>24</sup>. Nirgundi (Vitex negundo) found to have significant antifungal activity, Immunomodulatory effect<sup>25</sup>. Saussurea lappa have biological activities like antitumour, anti-bacterial, anti-inflammatory, immunomodulation, antiulcer, etc<sup>26</sup>. Yashtimadhu (Glycyrrhiza glabra) possess good anti-fungal activity, immunostimulatory effects and antimicrobial properties<sup>27</sup>. Chandana (Santalum Album) contains antibacterial and antifungal principles. It is used as blood purifier and tonic for heart, stomach and liver, and also in fever and memory improvement<sup>28</sup>. Tagara (Valeriana Jatamansi) have Antidepressant and antianxiety activities, anti-proliferative property and is traditionally used as snakebite antidote, ringworm killer and to treat skin<sup>29</sup>. Ashwagandha (W. somnifera) possesses various pharmacological activities anti-inflammatory activity, antibacterial activity, antifungal activity, antiviral activity, antitumour activity, immunomodulatory activity, anti-stress/adaptogenic activity.



#### **CONCLUSION**

Neelitulsyadi kashayam la having Garavishahara, Rakta Shodhaka (Blood purifying), Krimighna (Antimicrobial and antifungal), Kushthaghna (Beneficial in skin diseases), Kandughna (Reduces itching), Dahaprashamana (Reduces burning sensation) properties as well as antimicrobial, antifungal, anti-inflammatory, antiproliferative actions, expected to exert significant impact on the pathogenesis of Dadru Kushtha or fungal dermatophytosis.

#### FINANCIAL SUPPORT AND SPONSORSHIP

Nil.

#### CONFLICTS OF INTEREST

There are no conflicts of interest

Table 1: Nidanapanchaka of Dadru Kushta

Nidanapanchaka	Details					
Nidana	Aharaja, Viharaja, Acharaja, Sansargaja, Kulaja, Chikitsa Vibharamsajanya Hetu, etc,					
Poorvaroopa	Asveda, Atisveda, Parushyam, Atishlakshnata, Vaivarnyam, Kandu, Toda, Suptata, Paridaha, etc <sup>30</sup> .					
Roopa	Udagata Mandala associated with Kandu, Raga and Pidika <sup>31</sup> .					
Upashaya	Tikta, Laghu Ahara, Proper sleep and purification of body and bloodletting.					
Samprapti	Due to various <i>Nidana Sevana Tridosha</i> get vitiated, enter the <i>Sira</i> and vitiate <i>Twak</i> , <i>Raktha</i> , <i>Mansa</i> , and <i>Ambu</i> and create <i>Vaivarnya</i> in <i>Twak</i> and later on spread to further <i>Dhatu</i> <sup>32</sup>					

Table 2: Samprapti Ghatak of Dadru Kushta

Samprapti Ghatak	Details of Samprapti Ghatak			
Nidana	Sankramika Bahya Malaja Krimi			
Dosha	Tridosha (Kapha Pitta Pradhana)			
Dooshya	Twak, Rakta, Lasika (Ambu), Sweda			
Srotas	Rasa, Rakta			
Adhishthana	Twacha			
Rogamarga	Bahya			



Table 3: Ingredients of Neelitulasyadi Kashayam

S. N.	SANSKRIT NAME	LATIN NAME	Quantity
1	NILI MULA	Indigofera tinctoria	1 part
2	TULASI	Ocimum sanctum	1 part
3	ISHWARMULI	Aristolochia indica	1 part
4	SARIVA	Hemisdesmus indicus	1 part
5	NIRGUNDI	Vitex negundo	1 part
6	RASONA	Allium sativum	1 part
7	KUSHTHA	Saussurea lappa	1 part
8	YASHTIMADHU	Glycyrrhiza glabra	1 part
9	CHANDAN	Santalum album	1 part
10	TAGAR	Valeriana jatamansi	1 part
11	NAGAR	Zingiber officinalis	1 part
12	MARICHA	Piper nigrum	1 part
13	PIPPALI	Piper longum	1 part
14	ASHWAGANDHA	Withania somnifera	1 part

Table 4: Properties and action of ingredients of Neelitulsyadi Kashayam

S. NO	Sanskrit name	Rasa (taste)	Guna (properties)	Veerya (potency)	Vipaka (Post digestive taste)	Karma (action)
1	Nili Moola	Tikta (bitter)	Laghu (lightness), rooksha (roughness)	Ushna (hot)	Katu (pungent)	Kaphavatahara (reduce Kapha and Vata) Vishagna (anti-toxic), Kushtagna (pacifies skin diseases), Vedanasthapana (reduce pain) Rakthaprasadana (Purifies blood)
2	Tulasi	Tikta (bitter), katu	Laghu (lightness),	Ushna (hot)	Katu (pungent)	Kaphavatahara, Vishagna, Twakdoshahara,

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		(pungent)	Rooksha (roughness)			Vedanasthapana, Rakthaprasadana
3	Ishwarmu li	Tikta (bitter) katu (pungent), kashaya (astringent)	Laghu (lightness), Rooksha (rough ness)	Ushna (hot)	Katu (pungent)	Kaphavatahara, vishagna, vedhanasthapana, sophahara
4	Sariva	Madhura (sweet), Tikta (bit ter)	Guru (heaviness), snigdha (unctuous)	Sheeta (cold)	Madhura (sweet)	Tridoshagna, vishagna, kushtagna, rakthasodhana
5	Nirgundi	Katu (pungent), Tikta (bitter)	Laghu (lightness), Rooksha (roughness)	Ushna (hot)	Katu (pungent)	Kaphavatahara,kushtagna, vedanasthapana, rak thaprasadana
6	Rasona	Amla varjitha pancha rasa (five tastes except sour)	Tikshna (sharpness), guru (heaviness), snigdha (unctuous)	Ushna (hot)	Katu (pungent)	Kaphavatahara kushtagna, vedanasthapana, sophahara (reduce swelling)
7	Kushtha	Tikta (bitter), katu(pungent),madhura (sweet)	Laghu (lightness), rooksha (rough ness)	Ushna (hot)	Katu (pungent)	Kaphavatahara, kushtagna, vedanasthapana
8	Yashtima dhu	Madhura (sweet)	Guru (heaviness), snigdha (unctous)	Sheeta (cold)	Madhura (sweet)	Vatapittahara (pacifies Vata and Pitta), Kandughna, Ve danasthapana, Sophahara
9	Chandan	Tikta (bitter), madhura (sweet)	Laghu (lightness), rooksha (roughness)	Sheeta (cold)	Katu (pungent)	Kaphapittahara, vishagna, kushtagna, raktasodhana
10	Tagar	Tikta (bitter), katu (pungent), kashaya (astringent)	Laghu (lightness), snigdha (unctuous)	Ushna (hot)	Katu (pungent)	Kaphavatahara, vishagna, kushtagna, vranaropanam
11	Nagar	Katu (pungent)	Laghu (lightness), snigdha (unctous)	Ushna (hot)	Madhura (sweet)	Kaphavatahara, kushtagna, vedanasthapana, sophahara

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12	Maricha	Katu	Laghu	Ushna (hot)	Katu	Kaphavatahara, kushtagna,
		(pungent)	(lightness)		(pungent)	vedanasthapana,sophahara
			,tikshna			
			(sharpness)			
13	Pippali	Katu	Laghu	Anushna	Madhura	Kaphavatahara, kushtagna,
		(pungent)	(lightness),	sheeta	(sweet)	vedanasthapana, sophahara
			tikshna(sharp	(neither hot	(sweet)	
			ness), snigdha	nor cold)		
			(unctous)			
14	Ashwaga	Tiktha, katu	Laghu	Ushna (hot)	Madhura	Kaphavatahara, kushtagna,
	ndha	(pungent),	(lightness),		(sweet)	vedanasthapana, sophahara
		madhura	snigdha			
		(sweet)	(unctous)			

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