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AYURVEDIC MANAGEMENT OF DADRU KUSHTHA (TINEA CORPORIS): A CASE STUDY

Dr.Shivanand Majjagi1, Dr.S.S.Kalyani2, Dr.Sunilkumar M. Chabanur3

1. Post Graduate Scholar,

2. Professor Dept of Kayachikitsa

3. Associate Professor and HOD, Department of Kayachikitsa,

BVVS Ayurvedic Medical College and Hospital, Bagalkot

ABSTRACT

Dadru Kustha is one among Kshudra Kustha which involves vitiation of Rasa, Rakta and Mamsa Dhatu¹. It is one of the Kaphapitta Pradhana Twakvikara. It is characterized by Kandu, Raga, Pidaka, Daha and Uttsanna mandala. Clinical features of dadru kustha resembles with the deramatological condition called Tinea Corporis. The Prevalence of this infection is ~2% among young adults. 39% of world Population is suffering from Tinea. In India also, 5 out of 1000 people are suffering from Tinea infection. A 21yrs old male came with complaints of blackish and reddish circular elevated lesions over left shoulder region and right knee joint with severe itching and burning sensation since 4months. Nimbadi churna with Chinna (guduchi) kwatha was prescribed as internal medication and kasamaradadi lepa was advised as external application for 30 days. After completion of treatment, significant improvement was observed in the parameters like Kandu (itching), Raaga (Erythema), Pidika (eruptions) and Utsaana mandala (elevated circular skin lesion). Nimbadi Churna mentioned in Bhaisajyaratnavali is indicated in Dadru Kustha. It has Kandugna, Krimigna, Rakthashodaka, Anulomaka ingredients. Kasamardadi Lepa mentioned in Yogaratnakara Samhitha is indicated in Dadru Kustha. It has ingredients like Kasamarda mula which is Krimigna in action. Souveera Phala(Badara Phala) which is Pittahara, Dahanivarana in action. These properties helped in elimination of vitiated doshas and thus in samprapti vighatana. This case study gave us encouraging results in the management of Dadru kushta.

Key Words: Dadru Kushta, Kandughna, Kushtaghna, Tinea corporis.

INTRODUCTION

In Vaidyaka Shabda Sindhu, Dadru is mentioned as a type of Kshudra kushta having the characteristics of tortoise.²

As per Sir Monier William's Sanskrit English Dictionary, Dadru is a type of Leprosy (kushta i.e. skin disease) characterized by skin lesions, which resembles tortoise³.

All the skin diseases in Ayurveda have been classified under the broad heading of 'Kushta' which are further classified into Mahakushta and Kshudrakushta. Dadru is one amongst them⁴. Acharya Charak has included Dadru in Kshudrakushta⁵, whereas Acharya Sushruta and Acharya Vagbhata have explained under Mahakushta⁶. Dadru has been classified as Sita and Asita⁷.

All the nidanas mentioned for kushta can be the nidanas for Dadru also. These etiological factors are categorised into aharaja, viharaja, chikitsa apacharaja, krimija and upasargaja. They include viruddahara, mityahara, atyashana, ajeernashana, asatmya ahara, shitoshna vyatyasa sevana, ativyayama, ativyavaya, atisantapa sevana, santarpana apatarpana vyatyasa, panchakarma apacharaja etc.

Some of the nidanas are highlighted as a specific causitive factors for Dadru in particular, viz; Among aharaja nidana there is an indication that, consuming matsya and ksheera together (viruddahara) causes shonita roga⁸. Dadru being one among the shonita roga the above mentioned specific type of aharayoga if consumed in excess causes Dadru⁹. In upasargaja nidana¹⁰, upasarga of infected vastra, gatra, mala and lepa acts as a specific nidana for developing Dadru.Krimi – the bahya krimi which develops in unhygienic condition ^{11 12} causes Dadru.

Dadru Kustha is one among *Kshudra Kustha which involves vitiation of Rasa, Rakta, Mamsa Dhatu.* It is one of the Kaphapitta Pradhana Twakvikara¹⁴. It is characterized by Kandu, Raga, Pidaka, Daha and Uttsanna mandala¹⁵. Clinical features of dadru kustha resembles with the deramatological condition called Tinea Corporis.

The Prevalence of this infection is ~2% among Young adults. 39% of world Population is suffering from Tinea. In India also, 5 out of 1000 people are suffering from Tinea infection¹⁶.

Tinea corporis is the ringworm infection of glabrous skin and it includes lesions of the trunk and limbs excluding specialized sites such as the scalp, feet and groins¹⁷.

In Modern medicine, Tinea is treated with oral Antifungal, topical medication and steroids¹⁸. it needs to take long term ,may develop resistence to drug and more adverse effect. thus Alternative mediacines are used in this case study Nimbadi Churna¹⁹ has Pitta Kapha Shamaka Karma ,Kandugna, Krimigna, Rakthashodaka action. Tridosha Shamaka, Anulomana action. Kasamardadi Lepa²⁰ has having Kaphahara and Pittahara , Krimigna, Dahanivarana action.

Case study -

A 21 years old male approached to *Kayachikitsa* OPD of BVVS Ayurvedic college and Hospital, Bagalkot with Chief complaints of Blackish and reddish circular elevated lesions over the left shoulder region and right knee joint with severe itching and burning sensation since 4months.

Patient was apparently healthy before 4 months, and then he gradually developed the round and reddish elevated lesions over the left shoulder region and right knee joint with severe itching and burning sensation. For that he had taken Allopathic treatment from local practitioner but didn't get satisfactory result, then he developed with blackish and reddish circular elevated lesions over left shoulder and right knee joint with severer itching and burning sensation aggravated since 10days so, he came to BVVS AMC and Hospital for better management. There was no any past history of Diabetes mellitus, Hypertension, Hyperthyroidism & Hypothyroidism, All family members are said to be healthy.

CLINICAL FINDINGS :

Patients pulse rate was 80/min, blood pressure was 130/70mmhg, respiratory rate was 16/min, weight was 62kg, height was 168cm.

SYSTEMIC EXAMINATION:

:Conscious and Well Oriented
:S1 and S2 Heard and No Murmmrs
:Air entry bilatreal equal and NVBS, No added sounds
:Soft , Non Tender and No Organomegaly

EXAMINATION OF SKIN:

	Left shoulder	Right knee joint
Distribution	: Asymitr <mark>ical</mark>	Asymitrical
Pattren of the Lesion	: Circular	Circular
Size of the Lesion	: 14cm	10.5cm
Nature of the Lesion	: Dry	Dry
Colour of the Lesion	: Blackish	Blackish and Reddish

Table 1: Treatment Given.

Table 1: Treatment Giv	ven.			1	
Aushadha	Matra	Anupana	Aushada sevana kala	Kala	Route
Nimbadi Churna	1 gram TID	Guduchi	After food	30days	Internally
		<i>kwatha</i> -15ml			
Kasamardadi Lepa	0.25thickness	-	Morning	30days	External
	(1/4 angula)				application

Assessment criteria

The result will be assessed before & after the treatment, based upon Subjective and Objective Parameters.

Changes in the symptoms were noted with full gradation of subjective and objective parameter.

Gradation of Parameters SUBJECTIVE PARAMETERS-

1) Kandu

Grade 0	No Kandu
Grade 1	Mild
Grade 2	Moderate(Disturbs the work)
Grade 3	Severe (Disturbs the sleep)

2)Raga

Grade 0	Normal skin colour
Grade 1	Mild Redness(Pinkish)
Grade 2	Moderate Red(Pinkish)
Grade 3	Deep Brown

3)Pidaka

- CO	
Grade 0	No Eruptions
Grade 1	Eruptions in 0-25% of affected
	area
Grade 2	Eruptions in 25-50% of
	affected area
Grade 3	Eruptions in 50-75% of
1.14	affected area

4)Daha

Grade 0	No burning sensa	ition
Grade 1	Mild	1000
Grade 2	Moderate	Real Providence
Grade 3	Severe	

5)Rooksha

Grade 0	No dryness
Grade 1	Loss in skin's normal
	unctuousness
Grade 2	Moderate dryness of the skin
Grade 3	Excessive dryness of the skin

6)Utasanna mandala

Grade 0	No elevation of the skin
Grade 1	Mild elevation of the skin
Grade 2	Moderate elevation of the skin
Grade 3	Severe elevation of the skin



OBJECTIVE PARAMETERS²⁶-

1)Size of lesion

Grade 0	Below 0.5-1cm
Grade 1	1-2cm
Grade 2	2-3cm
Grade 3	3-4cm
Grade 4	4-5cm
Grade 5	More than 5cm

2)Number of lesions

Grade 0	No lesion
Grade 1	Only 1
Grade 2	2 lesions
Grade 3	3 lesions
Grade 4	4 lesions
Grade 5	More than 5lesions

Observation and Results

SUBJECTIVE PARAMETERS:

Complaints	Before treatment/	Observation period/	After treatment	On F/U <mark>40th day</mark>
	1 st day	15 th day	(31 st day)	
Kandu	Grade 3	Grade2	Grade0	Grade0
Raga	Grade 3	Grade3	Grade1	Grade1
Pidaka	Grade0	Grade0	Grade0	Grade0
Daha	Grade2	Grade2	Grade0	Grade0
Rooksha	Grade2	Grade2	Grade1	Grade1
Uttsanna mandala	Grade1	Grade1	Grade1	Grade1

OBJECTIVE PARAMETERS:

	Before treatment/ 1 st day	Observation period/ 15 th day	After treatment (31 st day)	On F/U 40 th day
Size of lesion	14cm,10.5cm	13.8cm, 10.5cm	12cm 9.5cm	12cm, 9.5cm
Number of lesion	2	2	2	2

Before treatment Gradation of *Kandu* was 3 (Severe Itching which disturbs the sleep) which reduced to 2 (Moderate) during first follow up 15th day and it was absent on day 31st day and 40th day that is after completion of treatment. Before treatment Gradation of *Utsanna mandala* was 2 (moderate elelvation of the skin) which reduced to 1 (Mild elevation of the skin) during first follow up 15th day and it was absent on day 31st and 40th day that is after completion of treatment. Before treatment *Raaga* (Erythema) was present that persists during first follow up and it was 1 mild redness on day 31st,40th day that is after completion of treatment. Before treatment of day 31st and 40th day that is after completion of size of the lesion 14cm(left shoulder region), 10.5cm (Right knee joint) and it was 12cm and 9.5cm on 31st day and 40th day that is after completion of treatment was observed in all subjective parameters and Moderate improvement was observed in objective parameters after completion of treatment. Same can be seen in following pictures taken before, during and after treatment.



DISCUSSION

The basics principles of hetu of Dadru have been mentioned in Brihattrayi and Laghutrayi in the Kustha Nidana. Most of the Apathya Ahara Vihara mentioned in Ayurveda for causes of Kushtha, produces the healthy environment for the growth of fungal infection in the skin tissues. In modern science the clinical manifestation of Dadru is closely similar to Tinea infection which is caused by contact with diseased person, the weak immune system, poor nutrition, stress, obesity and contact with contagious things etc. In modern science KOH scraping (a Fungal Culture) would be useful to diagnose the Tinea along with clinical manifestations

It is one of the Kaphapitta Pradhana Twakvikara⁻⁻ Due to Nidana Sevana, the Tridoshas are vitiated simaultaneouly and also Shaithilyata in the Dhathus such as Twak, Raktha, Mamsa and Lasika. hence the disease Kustha gets manifested.

Dosha Tridosha - Pittakapha pradhana		
Dushya Twak, Rakta, Mamsa, Lasika		
Agni	mi Jatharagni and Dhatvagni	
Ama	Tajjanya	
Srotas	Rasavaha, raktavaha, mamsavaha, swedavaha,	
Srotodushti prakara	Sanga, vimarga gamana and atipravritti	
Rogamarga	Bahya rogamarga	
Udabhavasthana	Amashaya	
Sancharastahana	Triyaka-gami sira	
Vyaktasthana	Twacha	
Adhisthana Chaturtha twacha-Tamra		
Swabhava Chirakari		

Table Showing Samprapti Ghataka of Dadru

Lakshanas and dosha pradhanyata

Lakshanas	Dosha
Kandu 🦯 👘	Kapha
Raaga	Pitta
Pidaka	Pitta
Utsanna mandala	Kapha
Atasipushpa varna	Pitta
Tamra varna	Pitta
Visarpanshila	Vata

Labahanag and Dhatugatatua

Lakshanas	Dhathu
Kandu	RasaRakta
Raaga	Rakta
Pidaka	RaktaMamsa
Utsanna mandala	Mamsa
Atasipushpa varna	Rakta
Tamra varna	Rakta
Visarpanshila	Rakta

In the Classics of Ayurveda, Shodana, Shamana and Bahirparimarjana Chikitsa explained for Dadru Kustha.

Nimbadi Churna mentioned in Bhaisajyaratnavali is indicated in Dadru Kustha. it is having ingredients mainly Nimba, Khadira, Bakuchi is having Pitta Kapha Shamaka Karma due to Sita Virya, Katu Vipaka and Kandugna, Krimigna, Rakthashodaka in action. Haritaki, Amalaki, Guduchi is Tridosha Shamaka, Kandugna, Krimigna, Anulomana in action. Vidanga, Devadaru, Kustha, Vacha is having Kaphahara Karma due to Usna Virya, Katu Vipaka, Krimigna and Kandugna in action.

Kasamardadi Lepa mentioned in Yogaratnakara Samhitha is indicated in Dadru Kustha. it is having ingredients like Kasamarda mula is having Kaphahara due to Usna Virya, Katu Vipaka and Pittahara due to Tiktha Rasa and Krimigna in action. Souveera Phala(Badara Phala) is having Pittahara, Dahanivarana due to Madura Rasa, Sheeta Virya.

CONCLUSION

Dadru Kustha is one among Kshudra Kustha which involves vitiation of Rasa, Rakta, Mamsa Dhatu.It is one of the Kaphapitta Pradhana Twakvikara. It is characterized by Kandu, Raga, Pidaka, Daha and Uttsanna mandala. Based on the similar Clinical features, Dadru Kustha can be closely compared with Tinea Corporis. As it is a contagious disease, personal hygiene is an important part in its management. From this case study it may be concluded that use of Chikitsa upakramas described in Ayurveda like Shamana chikitsa Nimbadi Churna With Chinna(Guduchi Kwatha) and Bahiparimarjana chikitsa i.e kasamaradadi lepa are effective in the management of Dudru kushta(Tinea Corporis).

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