



Research Article



Ayurvedic Management of Stress Induced Psoriasis (*Kitibha Kustha*) -A Case Study

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Abstract: Psoriasis is a chronic, inflammatory, and hyperproliferative skin disorder. Psoriasis appears as tiny (1 to 2 cm in diameter) lesions over the upper trunk and proximal extremities. We will contrast Kitibha Kushta with it based on its clinical characteristics. About 2% of people with psoriasis have it their entire lives. Medical sciences have adopted numerous therapeutic approaches, however they come with a variety of negative effects. So in this instance, Kitibha kushta's case was successfully treated with Shodhan, Shaman, and Bahirparimarjan chikitsa. In this single-case study, a 49-year-old male patient complained of numerous little red lesions on his chest, belly, and back of his thigh, which have been accompanied by acute itching for the past four years. Shodhan and Shirodhara were used in the patient's treatment. 90% of the patient's primary and related problems were resolved, and both during and after the end of therapy, the patient's quality of life improved. Shirodhara and Chikitsa are administered following Shodhana and Shaman. The patient's symptoms were satisfactorily relieved.

Keywords: Psoriasis, Kitibha Kushta, Shodhan Chikitsa, Shirodhara, Bahirparimarjan Chikitsa

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Received On 19 October 2022

Revised On 21 December 2022

Accepted On 01 January 2023

Published On 01 March 2023

Citation Utkarsha Khaire ,Dnyanesh Joshi ,Rajkumar Chintla , Deepak yadav , Ayurvedic management of stress induced Psoriasis (kitibha kustha) -A case study.(2023).Int. J. Life Sci. Pharma Res.13(2), L1-L9 <http://dx.doi.org/10.22376/ijlpr.2023.13.2.SP1.L1-L9>



I. INTRODUCTION

A persistent inflammatory and hyper proliferative skin condition is known as psoriasis. It is distinguished by well-defined, erythematous, scaly plaques that mostly affect the scalp, nails, and extensor surfaces.¹ In Ayurveda, it is comparable to *Kitibha Kustha*. All skin conditions are included together under the heading *Kustha*. *Mahakustha* and *Kshudra kustha* are the two subtopics that comprise *Kustha*. *Kustha* is *Tridoshaj vyadhi* and more evident in people who indulge in unhealthy lifestyles.² As per *Sushrut Samhita*, *kusthas* are *vatayukta*, *pittayukta*, *kaphayukta*, and *krimiyukta*. It can be labelled based onto the *dosha*'s dominance.³ It is a sickness that is challenging to treat since *Kustha* is *Asthamahegada Vyadhis* (octa ominous disorder)⁴ There is manifestation of symptoms by *Nidan sevana* like intake of *guru*, *ati snigdh aahar*, all the three *doshas* get vitiated and forms *shithilya* of the *rakta* and *mamsa* *dhatu* along with vitiation of the *twaka* and *ambu*. The vitiated *dushya* again vitiates the *tridosha* and it gets accumulated at the place of *dhatu shaithilya*.⁵ *Kitibha kustha* develops as result of vitiation of *kapha* and *vata dosha*. It shows *kapha* and *vata* dominant symptoms like circular patches on skin, dull black color, rough, dry in touch and sometimes secretions are present.⁶ PUVA and corticosteroids are the mainstays of contemporary medical therapy for psoriasis.⁷ However, the illness keeps coming back and has severe side effects like liver and renal failure as well as bone marrow depletion. Here, Ayurveda plays a significant role; the current study is being conducted to offer a secure and efficient treatment for psoriasis. In classical text mentioned that, for *chikitsa* of the *kustha*, *shodhan*(purification) and *shaman*(pacification)⁸ Both treatments were chosen for this study's objectives. Before snehapana Lavangadi vati 2tab before food given for 3 days for agnideepan. Snehapana was completed the Pancha tiktaka Grita is given in (Table no.6). Due to the fact that it contains Bhallata, which is described under *Kusthaghna Mahakashaya*. snehapana given in increasing quantity of 30ml, 60ml, 90ml and 120ml along with pathya of laghu ahara, Luke warm water intake. For external snehan Marichyadi taila was used and Sarvanga swedan done with Dashamoola kwath. On the day of virechan Icchabhedi rasa 2 tab given with the triphala kwath in the morning. After the virechan karma, 5 days sansarjan krama given. As stress is the main causitive factor in this case, Shirodhara procedure is planned with Jatamansi phanta to reduce stress and insomnia. Gandhaka Rasayana 2 tablet twice daily, Sukoshnajalaas Anupana and Mahamanjisthadi kwath 20 ml twice daily with 20 ml of warm water, along with external application of Dermafax ointment twice a day after bathing. Brahmi vati 2 tab at night with Luke warm water(Table no.9 and 10). The patient has received advice from Pathyapathy and NidanaParivarjan.

I.1 Relationship between *chinta* (stress) and *kitibha kustha* (*Psoriasis*)

Kushta vyadhi has several causes, one of which is *bahya, chinta* (stress). Stress is known as *chinta* (*dhatu kshyakarak*).⁹ The *vataprakop* has *chinta* (stress) as its cause. *Vyana Vayu Prakop* is a result of it. A *pittakrakop* may also result from it occasionally. *Rasavahasrotas dushti*¹⁰ which can produce *aam*, is primarily caused by *chinta*. Amplified by *prakrupit vyana vayu*, this *aam* can be produced and distributed throughout the entire body. They are all accountable for producing *Kitibha kustha* (*Psoriasis*).

I.2 Case report

A 49 yrs old male patient came to OPD with chief complaints of scaly, thickened silvery lesion on the back and back region of the thigh with on-off severe itching and burning sensation since 4 years. He is also suffering from the insomnia since 4 yrs.

I.3 History of present illness

The onset of disease was with the lower back and back of the thigh which was 4 years back. Initially there was whitish discoloration & the elevation of patch in the skin. With severe itching. For which patient took allopathic medicines including steroids for 2 years, he is also having insomnia due to stress, for that he is taking allopathic medicines since 4 years. patient consumes Excessive intake of curd, fish and salty food, *guru aahar* regularly, *Ajirnashana*(consumption of food before previously taken food is not digested.) patient was irregular with intake of medicine and it worsens the patient condition. So, he came to OPD for the treatment.

I.4 Clinical findings

- Silvery skin lesions with scaly appearance on lower back & spreading towards upper back.
- Severe Itching.
- Powdery discharge.

I.5 Personal history

Ahar: Curd, fish, Rice, cold drinks

Vihar: Ratri jagaran, travelling,

Nidra: *Anidra* (disturbed sleep)

Vyasan: Alcohol, Tobacco

Vyayam: *Atiyayam*

Table No: I – Examination

Physical examination	Asthavidha Pariksha	Dasha vidha pariksha
Pulse: 84/min	Nadi : <i>Vata kaphaj</i>	Prakriti: <i>Vatapradhan kapanubadhi</i>
BP: 138/ 88mm of hg	Jivha: Coated	Vikriti: <i>Twaka</i>
RS: Clear	<i>Mala:Baddhata</i>	<i>Satmya: Dadhi</i>
CVS: S1 S2 heard clearly	Mutra: 4-5time/day	Sara: <i>Asthisara</i>
P/A: Soft	Saprsha: <i>Ruksha</i>	Aharshakti: <i>Manda</i>
Skin examination: Candle grease sign was positive.	Aakruti: <i>madhyam</i>	Samhanana: <i>Madhyam</i>
	Shabda: <i>Spastha</i>	Samhanana: <i>Madhyam</i>
	Druk: <i>Sthir</i>	Praman: <i>Madhyam</i>
		Vaya(<i>Avastha</i>): <i>Madhyam</i>
		Vyayamshakti: <i>Heena</i>

Asthavidha pariksha, Dasha vidha pariksha and systemic examination are mentioned in Table no. I.

Table no 2: Hetu of Kitibha Kustha(Psoriasis)¹¹

Hetu	Causative factor
• Dadhi, matsu and lavana, guru aahar sevan	Intake of curd, Fish, Salt and heavy to digest food
• Vegadharana	Supression of natural urges
• Atiyayam	Excessive exercise
Ati sweda pravriti	Excessive sweating
• Atichinta, Atikrodha, Bhaya	Psychological factors like stress, anger, fear

Table no. 3: Comparison in kitibha kustha and psoriasis.¹²

Kitibha kushta	Psoriasis
Shyava /snigdha	Erythematous lesion turn too
Krishna varna	black in chronic case
Kharatvam	Candle grease sign –Positive
Parushatvam	Abnrmal hardning is observed in chronic case
Rukshatvam	Scales are hard to touch
Ugra kandu	Severe itching

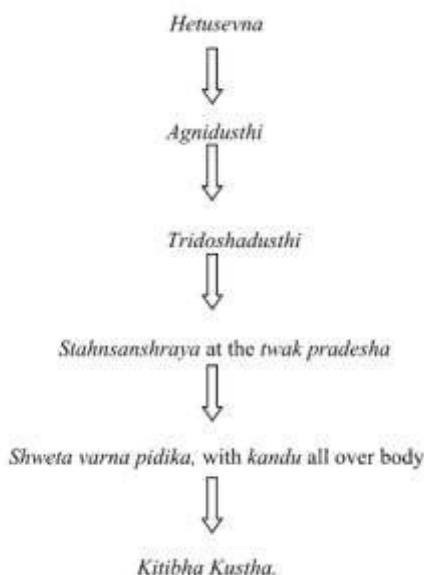
In this table no.3 Psoriasis and Kitibha kushta are compared on the basis of external appearance of lesion.

1.6 Samprapti Ghatakas

Dosha- Tridoshas Roga marga: Bahya
 Dushya- Twaka, Rakta, Mamsa, Lasika Udhbhavsthana: Amashaya
 Ama- Jatharagni janyak ama. Vyaktasthan: Twacha
 Agni- Jatharagni Rog swabhav: Chirkari
 Strotas -Rasawaha, Raktavaha Srotodushti prakara: Sanga
 Sadhya Sadhyata: Sadhya

1.7 SAMPRAPTI

Hetusevna
 Agnidusthi
 Tridoshadusthi
 Stahnsanshraya at the twak pradesha
 Shweta varna pidika, with kandu all over body
 Kitibha Kustha.

**Samprapti flow chart****Table no 4 : Differential Diagnosis**

Kitibha	Alasak	Dadru	Pama	Vicharchika	
Varna	Shyava	Rakta	Rakta	Shweta	Shyava
Strava	-	-	-	-	++
Dosha	VK	VK	PK	PK	K

*V= Vata, P= Pitta, K= Kapha

Table no 4: Assesment of clinical features:

Kitibha	Kustha	Psoriasis¹⁵
<i>Charak</i> ¹³	<i>Sushrut</i> ¹⁴	
<i>Shyava varna</i>	<i>Krishna Varna</i>	Erythematous plaques
<i>Khara sparsha</i>	<i>Snigdha Sparsha</i>	silvery scales
<i>Parusjha (kathor)</i>	<i>Srava, Vritta Ghana,</i>	
<i>Ugra kandu</i>	<i>Ugra Kandu</i>	Severe itching

1.8 CHIKISTA

1.8.1 Treatment Plan

Treatment is given to patient in Following heads

- Agnideepan
- Shodhanchikitsa
- Shaman chikitsa

Table no 5: Agnideepan chikitsa:

Date	Preparation	Dose	Kala	Anupan
29/04/2022 to 01/05/2022	<i>Lavangadi Vati</i>	2tab	<i>Apan kala</i>	With luke warm water

Table no 6: Shodhan chikitsa-**Virechan**

Date	Treatment	Medicine	Procedure
02/05/2022	<i>Snehabana</i>	<i>Panchatikta ghrita</i>	30ml
03/05/2022			60ml
04/05/2022			90ml
05/05/2022			120ml
06/05/2022		<i>Marichyadi taila for sarvanga snehan</i>	
07/05/2022	<i>Abhyanga and swedana</i>	<i>Dashamoola kwath for nadi swedana</i>	
08/05/2022	<i>Virechana</i>	<i>Icchabhedi rasa + Triphala kwath 8 am morning</i> <i>Total virechan vega- 13</i>	

	08/05/2022	09/05/2022	10/05/2022	11/05/2022	12/05/2022
Morning	Virechan Procedure	Peya	Vilepi	Soup with Ghee	<i>Mansa rasa with ghee or oil</i>
Evening	Peya	Vilepi	Soup without ghee	<i>Mansarasawithout ghee or oil</i>	Normal diet

Sansarjana krama

1.9 Shaman Chikitsa

1. Shirodhara
2. Aushadhi

Table no 8: Shirodhara procedure

Date	Medicine	procedure
13/05/2022		
14/05/2022		
15/05/2022		
16/05/2022		
17/05/2022	<i>Shirodhara</i>	<i>Jatamansi phanta</i>
18/05/2022		
19/05/2022		

Table no 9: Shaman Aushadhi

Sr.no	Aushadhi Dravya	Dose	Kaala	Anupan
1.	<i>Mahamanjisthyadi kwath</i>	20ml	BD	20ml With Luke warm water
2.	<i>Gandhak Rasayana</i>	2tb	BD	With Luke warm water
3.	Dermafex Ointment	Local application	TDS	
6.	<i>Bramhi vati</i>	2tb	HS	With water

1.10 On Discharge Medicine

LavangadiVati for improvement of agni. GandhakRasayana for correction of the Kandu and for its raktashodhan property. Brahmi vati for reduce stress and improvement in insomenia.

Table no 10: Selection of medicine

Medicine	Lakshana in patient	Action of the medicine
<i>Lavangadi Vati</i>	Less appetite Coated Toungue	<i>Deepan Pachan</i>
<i>Panchatikta ghrita</i>	<i>KanduRukshatva</i>	<i>kandughna</i>
<i>Mahamanjisthyadi kwath</i>	Blackish Discolouration of skin,	<i>Varnya, KaphaPittashamak, Shothahar</i>
<i>Gandhak Rasayana</i>	<i>Daha,Blakishdisoluration</i>	<i>Vranaropak,Dahaprashamana</i>
<i>Bramhi vati</i>	Insomenia	<i>Nidrajaran</i>

1.11 Pathya Apathya advised

Pathya

: Nimba, Mudga, Jangal Pashu mansarasa, Patola, purandharga.

• Apathya: Guru Ahara, Amla dravya, Dugdha, Dadhi, Matsya, Anup Mansa, Guda and taila.

2. RESULTS

The PASI score was used to evaluate the patient's improvement.¹⁶

Table no 11: Lesion score before treatment and after 2 months.

	Before treatment			After treatment		
	Trunk	Legs	Total	Trunk	Legs	Total
Erythema	3	2	5	0	1	1
Scaling	3	3	6	0	1	1
Thickening	3	2	5	0	1	1
Itching	4	3	7	1	1	2
Total lesion score(A)	13	10	23	1	4	5

The following lesion score occurs

- 0- None
- 1- Slight
- 2- Moderate
- 3- Severe
- 4- Very severe

Table no 12: Lesion score before treatment and after 2 months.

Percentage area affected	Before treatment		After treatment	
	Trunk	Legs	Trunk	Legs
Area score (B)	3	2	1	1

Here is the area score:

- 0 – 0% 3 – 30% - 49%
- 1 – 1% - 9% 4 – 50% - 69%
- 2 – 10% - 49% 5 -70% - 89%

Table no 13: Subtotals				
	Before treatment		After treatment	
Subtotal (C)	Trunk	Legs	Trunk	Legs
C=A×B	39	20	1	4

Table no 14: Body surface area.				
	Before treatment		After treatment	
Body surface area	Trunk	Legs	Trunk	Legs
Total(D)	11.7	8	0.3	1.6

Multiply each of the subtotal © by amount of body surface area represented by that region, i.e., 0.1 for head and neck, 0.2 for arms, 0.3 for trunk and 0.4 for Legs and together each of the score body region to give the final PASI Score.

Table no 15: PASI Score				
	Before treatment		After treatment	
	19.7		1.9	

Table no 16: Showing results:				
Features	Before Treatment		After Treatment	
Varna	Silvery		Reduced	
Kandu	Severe		Absent	
Lesion size	Big and larger		Reduced	
Lesion number	More		Decreased	
Depression	Present		Normal	
Scaling	Present		Absent	
PASI Score	19.7		1.9	
General look	III		I	



Fig: 1 Before Treatment



Fig: 2 Before Treatment



Fig: 3 After Treatment



Fig: 4 After Treatment

3. DISCUSSION

In discussion, Probable mode of action of the medicines, content of the medicine, and action of the procedure is mentioned.

3.1 *Lavangadi Vati*¹⁷

Has Agnideepan and Amapachan properties which increases Agni and Digestion of Ama and excrete toxins from the body. It is mentioned under *Agnimandhya Chikitsa* in *Bhaishajya Ratnawali*

3.2 *Action of Snehanpan Panchatikta ghriti*¹⁸

Tika rasa, ruksha, and laghu guna are the components of Panchatikta. It mostly affects the doshas and dhatus that are vitiated kled, meda, lasika, rakta, pitta, and kapha. Deepan, Pachan, Strotoshodhak, Raktashodhak, Raktaprasadak, Kushtaghma, Kandughma, and Varnya are some of its qualities. The Ghrit enters the cell at the cellular level and delivers to mitochondria and nuclear membrane, helping to convey medications to the target organs. It keeps the skin's regular texture¹⁹

3.3 *Gandhak Rasayana*

It acts well on skin problems like Psoriasis. Gandhak Rasayana's action. Kushtaghma, Kandughma, Dahaprashtaman, Raktashodhak, Vranaropak, Twachya, and Krumighma are all

embodied by Gandhak rasayan. It mostly appears in Kushta roga. It has antibacterial, antiviral, and antimicrobial properties.²⁰ Sulfur that has been refined can be used to treat many kinds of skin conditions. It lessens infection and irritation, benefits digestion and the appearance of the skin. It can be applied both internally and externally to treat skin conditions.

3.4 *Dermafex Ointment*

Its component Gul babuna (Matricaria chamomilla Linn.)²¹ Kampillaka (Mallotus philippensis Muell.-Arg)²², Daruharidra (Berberis aristata DC.)²³ Pashanbhedha (Bergenia saxifraga)²⁴ contains anti-inflammatory, antibacterial, and antioxidant effects. Similar qualities are shared by Malati (Jasminum officinale Linn. Var.), which also contains phytosteroids.²⁵ Jivanti (Leptadenia reticulata W. & A.) root and leaves can be helpful in treating skin conditions.²⁶

3.5 *Bramhi vati*

For its medhya (nootropic) properties. *Bramhi* [bocopo maniera pennel] and its preparations have been widely tested medicine is effective in *Nidravikara* (sleep disorder) and *Manoroga* (psychotic disorders) Attributes in *bramhi vati*.²⁷ Having nootropic (medhya) Rejuvinating(rasayana), sleep inducing(Nidrajan), anti-inflammatory (shothahar) and cardiotoxic (hrudya) properties.

3.6 Abhyanga's action with the Marichyadi tail

The Marichyadi tail is used for abhyanga or Bahya snehana (external oleation). The majority of the dravyas in the Marichyadi tail have ushna virya, katu, tikta, and kashay rasa qualities, which are shamans for the vata and kapha doshas. The rukshatva, kharatva, and parushata are decreased by its snighdha guna. Such assets like Raktashodhan, Kushtaghna, and Kandughna are present. Because of its Sukshmagamitva nature, tail aids in the appropriate absorption of medications by allowing them to enter tiny channels. These dravyas' Kashay rasa aids in lowering Kleda.²⁸ Marichyadi tail possesses properties that are antiseptic, antifungal, anti-inflammatory, and immunomodulatory. These characteristics make the Marichyadi tail useful for treating *kitibha kushta* symptoms.

3.7 Virechan karma action²⁹

Due to their strength, the Virechan dravyas, which have qualities like Ushna, Tikshna, Sukshma, Vyavayi, and Vikasi, penetrate into all of the dhamanis and circulate throughout the sthula and sukshma strotas. Due to its Agneya guna, it then causes the dosha sanghat to liquefy. Due to the purvakarma Snehan that was performed, this *Dosha sanghat* received *chhinnabhinnna* and circulated throughout the strotas without being stuck anywhere, just like honey does not stick to an oil-coated vessel. This *doshasanghat* goes toward the *koshtha* through the minuscule capillaries before arriving at the amashay. The *Jala* and *Prithvi mahabhuta*, the *purva karma*, are predominant in the virechan drug.

3.8 Action of Shirodhara³⁰

According to Ayurveda, shirodhara is quite effective for Vata and Pitta dosha. When the vata dosha is out of balance, it shows up as anxiety, fear, and racing thoughts. An out-of-balance Pitta dosha shows up as fury, annoyance, frustration, and judgement. Through its action and qualities, the liquid used in shirodhara is used to offset the harmful effects of the out-of-balance doshas. It calms, nourishes, and balances the doshas by applying the liquid to the forehead, scalp, and nervous system. The therapeutic liquid pouring pressure used in Dhara therapy may help to induce natural sleep by calming the mind. Corroborated by physiologic changes, including a drop in cortisol. It reduces muscle tension, brings blood pressure back to normal, and strengthens autonomic stability. Shirodhara caused numerous psychological changes that revealed lowered stress, including lowered anxiety and melancholy. Shirodhara results in a drop in plasma cortisol levels, a stress hormone. Antioxidant and anti-inflammatory properties found

in jatamansi can fight off free radicals and shield you from inflammation

3.9 Action of mahamajisthadi kwath³¹

Arishta (Azadirachta indica A. Juss.), Patolamula (Trichosanthes cucumerina Linn.), Katuka (Neopicrorhiza scrophulariiflora Royle ex Benth.), Bhringa (Eclipta prostrata L.), Magadha Piper, Trayanti (Gentiana kurroo Royle), and Patha (Cyclea pelt All of these medications have qualities similar to Varnya, Kapha Pittashamak, Shothahar (which reduces edoema), Kushtaghna (which treats skin conditions), and Vranropak (Wound healer). By virtue of Tikta (Bitter), Katu (Pungent), Kashaya Rasa (Astringent), Laghu (Light), Ruksha Guna (Rough property), and UshnaVeerya (Hot potency), the majority of medications have Kapha Pittahara or Tridoshaghna properties. Katu Vipaka is one such drug (Pungent post-digestive effect). Blood purification remedies include *Manjistha*, *Nimba*, *Haridra*, and *Vacha*. Other remedies include *Nimba*'s Kandughna, *Haridra*'s Kustaghna, and *Vacha*'s Sroto Shodhana (Channel cleanser). All of these medications follow the Samprapti Vighatana Chikitsa Siddhanta and carry out the therapeutic pharmacological action based on the innate attributes of *Rasa* (Taste), *Guna* (Properties), *Veerya* (Potency), *Vipaka* (Final Transformation), and *Prabhava* (Specific Potency) (Breaking of etiopathogenesis as a principle of treatment)

4. CONCLUSION

One type of *Kshudra Kushta*, *Kitibha Kushta*, and psoriasis is associated to one another. The *Kitibha Kushta* can be successfully treated with the Shodhan (Virechan), Shaman (internal drugs), Bahirparimarjan Chikitsa (External application), and Shirodhara As shown in Table no. 17 . According to the case study mentioned above, Given that this is a single case study, it is advised that more patients be included in the research study to demonstrate the efficacy of the treatment methods. Dr. Utkarsha Khaire conceptualised and design the study, curated data and prepared original draft. Dr. Dnyanesh Joshi discussed methodology. Dr. Deepak Yadav analysed the data. Dr Rajkumar chintala provide the needful inputs towards designing the manuscript. All authors discussed, analysed the data and thereafter approve the final version of the manuscript.

5. CONFLICT OF INTEREST

Conflict of interest declared none.

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