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# Tuvaraka Rasayana in Psoriasis – A Case Report

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Abstract: Psoriasis is a multifactorial disorder influenced by both genetic and environmental factors. Weather and climate can induce or exacerbate the condition in many patients. Psychological or emotional stress is a commonly reported exacerbating factor in Psoriasis. The prevalence of psoriasis in India is estimated to be between 0.44% and 2.8%. The current treatment modalities for this condition are reported as not much effective as a lot of relapses occurs. In Ayurvedic literature most of the skin aliments are clustered under "Kushta" (a general terminology for skin ailments). In Kushta, skin ailments are explained based on their morphological characters and hence several modern dermatological conditions could be diagnosed as a specific Kushta based on their clinical presentation. Ayurvedic therapies including Sodhana, Samana and Rasayana prayoga seems clinically effective in many of such disorders with immunological relevance and having multifactorial causation. A 65year old male, presenting with complaints of itchiness over the head, whole back, lateral aspect of bilateral upper and lower limbs with marked skin lesions. Patient also had complaints of non-pitting oedema associated with burning sensation in bilateral lower legs since 3 months. He was a known case of Diabetes mellitus (since 4years) and was a chronic smoker. From the clinical features, the case was discussed under Kitibha Kushta having Vata-kapha dominance with vitiation of pitta up to an extent. He was administered with internal and external therapies along with Sodhana (bio-cleansing procedures) followed by administration of Tuvaraka rasayana. The total duration of the treatment was 41 days and the subject was assessed before and after treatment by PASI score. He positively responded to the proposed Ayurvedic management. Itching, oedema and burning sensation as well as PASI score got reduced.

**Key Words:** Kushta, Sodhana, Tuvaraka rasayana, Psoriasis, PASI score.

## 1. INTRODUCTION:

The disease Kushta (skin diseases) is one among the Ashta mahagada (Eight great disorders) and santarpanajanya vyadhi (diseases of over nutrition). The vitiation of the tridoshas and sapta dhatus (bodily tissues) occurs in kushta. Ayurveda explains eighteen types of Kushta under two categories named Maha Kushta (major skin diseases) and Kshudra Kushta (minor skin diseases), based on severity in their manifestations. Each one among in the categories is further explained in detail with the dosha involvement and skin appearances. The disease psoriasis is mainly compared with either Eka kushta, Sidhma Kushta, or Kitibha Kushta, which are of Vata-Kapha in origin. Ayurveda has given par importance to both Sareera and manas along with some codes and conducts of life which everyone should follow to be healthy both physically and mentally. In 21st centaury people have changed their lifestyle and this dramatic adoption of westernisation plays an important role in the vitiation of tridosha which further lead to vitiation of dhatus and results in the manifestation of different kind of life style diseases and skin disease is one among them. Among all skin diseases, Psoriasis is a chronic, noncommunicable, painful, disfiguring and disabling disease for which there is no complete cure and with great negative impact on patients' quality of life. It can occur at any age, and is most common in the age group 50-69. In 2014 the World Health Organization recognised psoriasis as a serious non-communicable disease and the accompanying WHO report (2016) emphasised the need to better understand the global burden of the disease. The reported prevalence of psoriasis in countries ranges between 0.09% and 11.4%, making psoriasis a serious global problem [1]. Indian Prevalence of Psoriasis is 0.44-2.8 % and it commonly affects individuals in their third or fourth decade with males being affected two times more common than females [2].

Psoriasis is a very distressing disease both for the patients and physicians because of its pathogenic mechanism characterised by brownish coloured scaling, thickened-rough skin lesions, in severe cases covers entire body [3].

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Majority of the skin diseases in Ayurveda have been discussed under the broad heading of "*Kushta*". The disease psoriasis is mainly compared with either *Eka kushta*, *Sidhma Kushta*, or *Kitibha Kushta*, which are of *Vata-Kapha* in origin. *Kitibha kushta* is considered as one of the *Kshudra kushta* having *Vata-kapha* dominance. In this case the symptoms of patient were closely similar to symptoms of *Kitibha kushta*, as the symptoms were *rooksha*(dryness), *kinakhara sparsha* (roughness), *kandu*(itchiness), *parusha*(hardness) and *asita varna* (blackish discolouration) closely resembles with symptoms of Psoriasis [4].

## 2. CASE HISTORY:

A 65 year old male apparently healthy before 4 years, developed itchiness over the scalp with exfoliation of skin and consulted an allopathic doctor and attained considerable relief. In the succeeding years, the symptoms aggravated and lesions were noted on bilateral arms and thighs, which was later relieved by allopathic treatment. He had Herpes zoster infection over right upper limb 5 months ago and recovered completely. Before 3 months he got admitted in a hospital with complaints of weakness of body and bilateral pedal oedema and also difficulty in appreciating touch, pain and temperature sensation over C7-T1 distribution. Later the case was diagnosed as Brachial plexopathy secondary to Herpes zoster infection and he underwent for the appropriate treatment. Since last 2 months patient complaints of increased itching over the head, bilateral upper and lower limbs, upper and middle back with marked skin lesion. Also bilateral pedal oedema, which was pitting in nature. Patient attended Kayachikitsa OPD of the institution, and was diagnosed as *Kitibha kushta* with predominance of *vata* and *kapha* with association of pitta. He was admitted to IPD for further management.

#### 3. CLINICAL EXAMINATION:

On examination of Vitals - pulse rate was 70/min, regular and of full volume, Heart rate was 70/min, Blood Pressure was 140/90 mm Hg (right arm sitting), Respiration rate was recorded as 14/min and body weight was 69 Kg, having height of 154cm on measurement.

On integumentary systemic examination, lesions were blackish brown in colour, distributed as symmetrical and well demarcated; discoid shape in head, vastly spreaded in bilateral legs and back (small hard elevations), rough and hard to touch. Both Candle grease sign and Auspitz's sign were positive.

## 4. INVESTIGATION DETAILS:

- Doppler study of both lower limb venous system shows bilateral saphenofemoral junction incompetent and several multiple incompetent perforators.
- Echo showed mild mitral regurgitation.
- Blood investigation showed normal leukocyte counts with elevated ESR, mild hyponatraemia and hypoalbuminemia with A/G reversal and elevated ALP.

#### **5. MANAGEMENT:**

Table no 1: Internal medicines administered

Internal medicines	Dose	Rationale		
Gulucyadi kwatha <sup>[5]</sup>	90ml, bd, before food	Deepana – pacana, Rakta		
		prasadana		
Punarnavadi kwatha <sup>[6]</sup>	90 ml, bd, after food	Deepana – pacana, Sophahara		
Chandraprabha vati <sup>[7]</sup>	1 bd, after food	Vatakapha hara, Kushtahara		
Arogyavardhini vati <sup>[8]</sup>	1 bd, after food	Kushta nasaka		
Vilwadi gulika <sup>[9]</sup>	1 bd, after food	Dushi vishaghna		
Triphaladi choorna <sup>[10]</sup>	1 teaspoon at bedtime with luke	Bowel regulation and stress		
(5gm) + Shankhapushpi	warm water	management		
choorna <sup>[11]</sup> (3gm)				

Table no 2 - Procedures done

PROCEDURE	MEDICINE	DURATION	RATIONALE	OBSERVATIONS	
Sarvanga seka	Triphala Kashaya	7 days	Vranaghna,		
			sophaghna	Itching reduced,	
			antimicrobial,	pedal edema reduced	

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			anti-		
			inflammatory property		
Snehapana	Aragwada	6 days	Kushtaghna,		
(50-190ml)	mahatiktaka ghrita		kandughna		
	(50 -190ml)			Itching reduced	
Deha abhyanga	Eladi keram <sup>[12]</sup>	3 days	To bring back		
and ushnodaka	(100ml)		dosha from		
snana			sakha to koshta	Lightness of body	
Virecana	Avipatti churna <sup>[13]</sup>	1 day	Pitha hara,	11 vegas obtained	
	(25gm) +		alpa vyapat,	Lightness of body	
	Icchabhedi rasa <sup>[14]</sup>		sukha		
	(1 tablet)		virechaka		
Samsarjana kriya –	4 days				
Sirodhara	Takra +	7 days	Vrana sodhana,	Tension reduced,	
	Aragwadhadi gana		vrana ropana,	itching reduced,	
	[15] (2L)		kandughna,	improvement in quality of sleep	
Nasya	Anu taila [16]	3 days	Vataghna,	Improvement in	
	(1ml/nostril)		brimhana	quality of sleep	
Virechana	Hareetakyadi	1 day	Preparing the	9 vegas	
	<i>sodhana</i> <sup>[17]</sup> (45gm)		koshta for	Weakness observed	
			rasayana		
			therapy		
Samsarjana kriya –	1 day				
Rasayana	Tuvaraka rasayana	8 days	Kushtaghna	Itching & pain	
prayoga	[18] (3ml – 20ml)	-		reduced	

## **6. ASSESSMENT:**

Table 3 - PASI score – before and after treatment

Lesion score (Sum		10 3 - 1715	130010 0	crore and	arter treati	Hent		
Plague	Head		Upper limb		Trunk		Lowe limb	
characteristic	BT	AT	BT	AT	BT	AT	BT	AT
Erythema	2	1	2	1	2	1	3	2
Induration/	1	0	2	0	2	0	3	2
thickness								
scaling	2	1	1	0	2	0	2	2
Total	5	2	5	1	6	1	8	6
Area Score (Sum B	3)							
Degree of	Head		Upper limb		Trunk		Lowe limb	
involvement of	BT	AT	BT	AT	BT	AT	BT	AT
body region	3	1	2	1	4	1	5	3
Subtotals C	BT	AT	В	ATT	BT	AT	BT	AT
(Lesion score A *	15	2	10	1	24	1	40	18
Area score B)								
Body surface	Head (*0.1)		Upper limb		Trunk (*0.3)		Lowe limb	
area			(*0.2)				(*0.4)	
	BT	AT	BT	AT	BT	AT	BT	AT
Totals D	1.5	0.2	2	0.2	7.2	0.3	16	7.2

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Figure 1 : Skin lesion – Bilateral lower limb (before and after treatment)





Figure 2: Skin lesion - Upper back (before and after treatment)





Figure 3 : Skin lesion – Thigh (before and after treatment)





#### 7. DISCUSSION:

Psoriasis is a common non-infectious disease of the skin characterized by the well-defined erythematous plaque with large adherent silvery scales. Its exact aetiology remains unknown but has a genetic predisposition, and certain stimuli provoke the psoriasis- like trauma, climate, post infection, adverse drug reaction, psychogenic stress, cigarette

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smoking and alcoholism. Among all, stress is said to be the key stimuli. The primary psychological stress is acting as a precipitating factor in the causation psoriatic lesions. The presence of disease will then again become the causation of secondary stress, making the disease worst. *Kushta* is the term used in Ayurvedic text for most of the skin disorders including leprosy. The *Vata-Kapha* variety of *Kushta* shows resemblance with psoriasis in symptomatology

#### **NIDANA:**

Patient had increased stress, irregular diet pattern including excessive intake of non-vegetarian diet, pickles, and lavana - katu rasa pradhana ahara, extensive cigarette smoking and presence of anya vyadhi such as prameha, and sthoulya resulted in the manifestation of Kitibha kushta. After examining the patient, treatment protocol has been planned by the Ayurvedic principles including samana, sodhana and rasayana. Patient's chief complaints were itchiness over the head, whole back, lateral aspect of bilateral upper and lower limbs with marked skin lesion and non-pitting type of oedema associated with burning sensation in bilateral lower legs since last 3 months.

## INTERNAL MEDICINES WITH MODE OF ACTION OF DRUGS:

Cikitsa was commenced with Gulucyadi Kashaya and Punarnavadi Kashaya which are not only meant to be deepana- pachana, but also raktaprasadana and sophahara respectively. By considering the formation of Dushi visha in kushta, Vilwadi gulika was administered because of its vishaghna property. According to Rasaratnasamucchaya, Bhaisajyaratnavali and Bharata bhaisajya ratnakara the drug Arogyavardhini vati possess the pharmacological action such as Kushta nasaka (can alleviate skin diseases). Also the drug is having the properties like-pachana (digestive), deepana (appetizer), pathya (wholesome for channel), hridya (cardio protective), medonasaka (can alleviate the diseases arising from hyperlipidemia), malashuddhikari (cleaning of waste materials from body), Sarvaroga prashamani (can alleviate all types of disorders from body) [19]. By considering the vatakapha hara property along with pramehaghna, kushtaghna, agni deepana property Chandraprabhavati was selected. Since the patient had constipation Vara churna mixed with Sankhupushpi churna was advised at bed time, it has action on neurological level also by decreasing the stress [20] along with regulation of bowel. During the same time external procedures started with Sarvanga Triphala kashayadhara for 7 days. During dhara, there had marked changes in itching.

# **SODHANA:**

After the attainment of *nirama Lakshana* (optimal symptoms of digestion), the patient was given *Snehapana* with *Aragwadamahatiktaka ghrita* because of its *kushtaghna* property. The initial dose was 30 mL. This was continued for another 5 days up to the dose of 190 mL, followed by *abhyanga* with *Eladi keram* and *bashpa sweda* (oil massage and steam bath) which help to bring back the vitiated *dosha* from *sakha* to *koshta*. On the 4<sup>th</sup> day after the *abhyanga* and *bashpa sweda*, the *Virecana* therapy was done with *Avipathi churna* and *Icchabhedi rasa*. *Icchabhedi rasa* is basically a *rasaushadhi* commonly used for *Virecana* and is indicated in *Kushta* also, where strong purgation is needed. *Madhyama shudhi* was observed and *Samsarjana krama* given for 4 days.

#### **SIRODHARA:**

After *samsarjana krama*, the patient was subjected to *Sirodhara* with *takra* processed with *Aragwadadi gana kashaya*. Due to the dripping of medicated liquid over the forehead, prolonged and continuous pressure causes tranquillity of mind and reduces stress by modulating nerve stimulation <sup>[21]</sup> and also the addition of *Aragwadadi gana* in *takra* aids *sodhana* and *ropana* of *vrana* and *kandughna*.

## **NASYA:**

Nasya was performed with Anutaila. Anutaila is used for the purpose of sodhana (sodhana nasya) and which is sukshma srtotogami in nature. Anutaila reaches to minute channels and mobilises the kaphadi dosha from their sthana. During nasya improvement was noted in the quality of sleep.

## TUVARAKA RASAYANA:

For Rasayana purpose, Tuvaraka rasayana was selected. Prior to the rasayana administration, the patient was subjected to Hareetakyadi sodhana which is typically indicated in rasayana adhikara of Caraka Samhita in order to make koshtasuddhi. Tuvaraka rasayana has properties such as kaphavata hara, kushtaghna, krimighna, pramehaghna, kandughna and possess ubhayabhaga shodhana property as it is a sodya rasayana. Because of its ubhayabhagaharatva, it cleanses the system and will pave a way for the formation of new skin. As per Ayurveda, the skin was formed from rakta dhatu. This was due to the effect of Tuvaraka on Pitta sameekarana (balancing the pitta by improving the dhatvagni). Tuvaraka rasayana administered with a starting dose of 3ml, then increased the dose up

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to 20ml and advised *seeta jala* as *anupana*. Even though the patient was weak during *Rasayana prayoga*, there was improvement in his lesions in terms of itching, pain and area of spread.

#### 8. CONCLUSION:

Modern medicine treats psoriasis with various medicaments like topical treatment such as application of corticosteroids, Keratolytics, Anthralin and Tars, Tazoterene analogues of Vit-D3. Systemic treatment consists of Cyclosporine, Retinoids, Methotraxate. Photo Therapy consists of UVB, PUVA, Bath PUVA and PDT. Despite their efficacy, these treatments have serious adverse effects like hepato-toxicity, pulmonary toxicity, pancytopenia, teratogenicity, metabolic disturbances and increased risk of malignancies. [22] Ayurveda have a great role in this arena, along with effective management of symptomatology, good quality life can be provide to the patients. Both the internal and external medications of Ayurveda helps to correct the complex pathophysiology of Psoriasis. This paper reports the efficacy of Ayurvedic management in Psoriasis. Further advanced researches has to be brought to light and the possibilities of the Ayurvedic treatment modalities in such cases has to be studied and reported for the benefit of the society, so as to improve the quality of life of the affected.

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