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# Management of Palmoplantar Keratoderma through Ayurveda: a case Report

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#### ABSTRACT

Palmoplantar keratoderma are abnormal thickening of the skin on the palms and soles. There is contiguous extension of hyperkeratosis beyond palmoplanter keratodermas. Palmo plantar keratoderma may be heridatory or acquired Acquired palmoplanter keratoderma can be correlate with the *vataj kushtha* mentioned in Ayurveda. In this case study patient of Palmoplantar Keratoderma was managed through Ayurveda using Ayurveda principles and *chikitsasutra* given by Acharya *charak* for*vataj kushtha* and we found better results without any side effect.

**Keywords:** Palmoplantar, Keratoderma.

#### **INTRODUCTION**

Palmoplantar keratoderma are abnormal thickening of the skin on the palms and soles. There is contiguous extension of hyperkeratosis beyond palmo planter Keratodermas. Palmo planter keratoderma may be heridatory or acquired.

Acquired palmoplanter keratoderma non hereditary, non frictional hyperkeratosis of palms and soles that involves fifty percent or more than fifty percent of the surface.<sup>1</sup>

The causes of acquired palmoplantar keratodermas including malignancies, systemic conditions like thyroid disease, circulatory disorders, malnutrition, skin conditions (psoriasis, eczema, pityriasis) and infectious causes e.g. syphilis, tuberculosis, human papilloma virus.

Palmoplantar keratoderma is diagnosed by detailed medical history and physical examination

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Management of acquired palmoplantar keratoderma includes firstly identifying the cause of it and treating the underline cause of palmoplantar keratoderma. Conservative treatment options are topical retinoid, corticosteroids.<sup>2</sup>

Palmoplantar keratoderma can be correlated with *Vatajkushtha*. It also called as *Kapalkushtha*. *Kapal* refers to broken pieces of earthen pot. It is characterized by *Krishna Arun Kapalabham* (skin looks like broken pieces of earthen pot). Skin have*ruksha* (dry) *Parush* (rough and thick to touch), *Todbahul* (pain). This ailment is difficult to cure .It is caused due to *Vatadosha*. *Acharya charak* advised *Ghritpana* internally for the management of *Vatajkushtha*.

So we planned firstly *Deepen karma* for *deepen karma* we used *Shunthichurna*3g 2 times with lukewarm water for 8 days.

After deepen karma start internal *Ghritapana* with *Panchatiktaghrit*20 ml internally For 1 month as a *shaman Snehapan*.

Sthanik (local) chikitsa with Shatadhautghrita two times for 1 month

And *Mahamanjishtadi kwath* 15 ml twice a day given for 1 month and adviced local hygine daily.

After 1 month we found effective results on *Kandu (itching)*, *Ruja (pain) and Rukshata (dryness)*. Skin texture of patient also improved by *Ayurvedic* management based on *Ayurved siddhant*.

#### **CASE REPORT**

37 year old female patients come to our OPD with symptoms both sole excessive dryness with scaling blackish discoloration, difficulty in walking. Cracked palms with painful condition also had both pedal oedemas.

### Personal history:

She was married but divorced before 3 years after that she start any labour work

Medical history: pt had history of tuberculosis and completed her AKT before 2 months.

#### **Physical examination:**

General condition was moderate, pallor, a febrile. Pulse was 80 per minute. Blood pressure was 110/70 mm of hg

On respiratory examination mild basal crept was found.

Circulatory system examination was found normal.

On Central nervous system, patient was well oriented .patient had burning sensation on both palm and soles

#### **Local examination:**

Pitting oedema was found on both legs.

Both soles had black discolouration with excessive scaling. Difficulty in walking was found.

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Both palms shows cracked lesion.

#### Haematological investigation:

Complete blood count report was normal but haemoglobin was 8gm, blood sugar was normal, erythrocyte sedimentation rate was 20.

#### Samprapti (pathophysiology)

<u>Hetu</u>- Ruksha, Paryushit Aahar, Abhojan, Vyadhihetu (rajyakkshma), history of tuberculosis, malnutrition

<u>Purvarupa</u>- Harden the skin of sole and crakes on palm.

<u>Rupa</u>- Swlloen foot, skin become more harden, Rukshata, Parushata, Arunata increased .Difficulty in walking, crakes on both palms, burning sensation of sole and palm.

<u>Samprapti</u>- Due to *hetusevanvata*, *pitta* Kapha allivated but *vatadosha* allivated predominantly get *Sthansnshraya* in *Ubhay* hasta pada and develop above symptoms.

(Dosh – vata pitta kapha Dushya-rasa rakta, twacha)

<u>Upashay</u>- Patient had relief to given treatment specially by *Abhyantar* (internal)and *Bahya* (external) snehan.

*Vyadhivinishay- vatajkushth (kapalkushtha)* 

After detailed history taking, clinical examination we plan *Ayurvedic* management on the basis of *Siddhant*.

#### **Treatment given:**

Sr.	Drug	Dose	Duration
No.			
1	Shunthi churna	3 gm	Twice a day for 8 days
2	Panchatikta ghrita	3oml	At morning with lukewarm water For 1 month
3	Mahamanjishthadi kwath	15ml	Twice a day for 1 month
4	Sitopaladi churna	2 gm	3 to 4 times with madhu for 15 days
5	Shatadhaut ghrita		local application for 1 month

#### **Assessment criteria**:

Assessment of the patient with following

- 1. Skin images before and after treatment
- 2. Symptom score before and after treatment <sup>5</sup>

Sr. No	Symptom		Score
1	Kandu	No itching	0
		Momentary itching(not disturbing normal activity)	1
		Episodic itching(disturbing normal activity)	2
		Continuous itching	3
		Continuously and even disturbing sleep	4
2	Ruja	No pain	1
		Mild pain of low density causing no disturbance in routine work	2
		Moderate pain hampers the daily routine work	3
		Severe pain causing definite interruption in routine work	4
3	Rukshata(dryne ss)	No dryness	0
		Dryness with rough skin	1
		Dryness with scaling	2
		Dryness with craking	3

# OBSERVATIONS AND RESULTS













# **Subjective parameter /Symptom score:**

Sr. No.	Symptom score	Before	After treatent
		treatment	
1	Kandu	2	0
2	Ruja	4	0
3	Rukshata	3	0

In Ayurveda all skin disorder comes under Kushta Vyadhi .On considering above signs and clinical and local examination in this case we diagnosed KapalKushtha(VatajKustha) .AcharyaCharak mentioned the symptoms of KapalKushtha as Rukshata (dryness)), Parusha, Arun, Khara(rough), Todabahul(painful)Daha(burning )Kandu(itching) etc. Are found in this case.

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Sarpipan are adviced for the management of KapalKushtha (Vatajkushtha) in Kushtha Chikitsasthan by Acharya Charak. So we select the PanchatiktaGhrita30 ml at morning with lukewarm water for 1 month. Before that we give ShunthiChurna3gm twice a day for 8 days. Sunthi acts as a Deepan and Amapachana due to its UshnaGuna which is necessary before *Snehapana*.6

Panchtikt ghrita contains Vasa(Adhatoda vasika) Nimb(Azadirecta indika) Guduchi (tinosporacordifolia) Patol (Trichosanthas dioica) and Kantakari (solanum xanthocarpum ) and Ghrita. All these drugs have *Katu*, *Tikta*, *KashayRas* and *Ushna* property helps to pacify the alleviated Vata, Pitta and KaphaDosha. Due to pacification of VataDosha it subsides KharaSparsha, kina scaling parushtata as well as Shyav Varna. All contain of Panchatiktaghrita has anti inflammatory, anti oxidant, immune potentiating antihistaminic property <sup>7</sup>

Pt had a history of Koch's she taken AKT but on examination still basal crepts had present and she also had cough hence we given Sitopaladi Churna 2 gm for 3 to 4 times aday with Madhu. After 15 days these symptoms subsides because it have Rasayan property and told as a Rogadhikar of Rajyakshma then we stop Sitopaladi Churna after 15 days.

Mahamanijisthikwath having Kushthagna, Kandunashak, Pachak and Srotoshodhak and VranaRopak property and it is best Raktashodhak (blood purifier) so it gives better results in this case.9

Application of Shatadhaut Ghrita locally helpful in removal of scars and it acts as a anti inflammatory agent. 10 it also used as a permeation enhancer so increases the permeation rate. 11

Overall results seen in this case can be made out by summation of effects of drugs and therapies which helps to Samprapti Vighatana (breakdown the pathogenesis) of the disease.

#### **CONCLUSION**

Acquired Plantopalmar Keratoderma which we can correlate with the Vatajkushtha .Treatment given on the basis of Chikitsa Sutra of Vataj Kushtha and Ayurvedic Chikitsa Siddhant found effective results in this case but further clinical trial with large sample size will confirm the significance of this management.

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