Management of Palmo-Plantar Psoriasis by Classical Shodhan and Shaman Chikitsa- A Case Report

Case Report

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Abstract

Background: Palmo-plantar psoriasis is a non-inflammatory skin condition in which it is capable to produce functional disability. It is the type of psoriasis which occurs in palms and soles together with features like scaling, erythema and itching, pustules cracked & pain, and is limited. Palmo-plantar is the disease which does not have a specific line of treatment, but can be assessed and treated with classical line of Ayurvedic management. This Palmo-plantar not only affects physically but also disturbs the mental health of patient. In Ayurveda all the skin diseases are described under single topic; Kushtha (Skin disorders). As Palmo-Plantar psoriasis is compared with Vipadika Kshudra Kushtha (cracked bilateral soles & palms) in Ayurveda, the predominant Dosha’s (fundamental bodily bio-elements) are Vata (governs movement of body & mind) & Kapha (controls immune system) in which Vaman Karma (Emesis) is useful. Aim: To evaluate the role of Ayurveda treatment modalities in Vipadika Kshudra Kushtha.

Materials & Methods: A case report of 56 year old male patient suffering from scaling of both palms and soles with severe pain since 16 years is presented in this article where the patient got satisfactory relief by adopting Shodhan Karma (purification treatment) followed by Shaman Chikitsa (pacifying treatment) with dietary and behavioral lifestyle modification. The symptoms were reduced by Vaman procedure. Result: Patient got about 80% relief after the treatment by which one can say that the palmo-plantar psoriasis can be treated by Ayurveda Medicine.

Key Words: Kushtharoga, Palmo-pantra psoriasis, Shaman, Shodhan, Vaman, Vipadika.

Introduction

Palmoplantar psoriasis is an Autoimmune condition which flares up with exposure to the triggering factors. It is a type of skin disease which affects the both palms and soles. It is a condition which occur at any age but mostly seen between 20-60 yrs. of age group. Psoriasis is a non-contagious, chronic inflammatory condition which is characterized by red, scaly silvery plaques (1). It is also linked with the other health conditions like arthritis, irritable bowel syndrome. The name of psoriasis differs according to the site of appearance, as it appears in both palms and soles together known as Palmo-plantar psoriasis. It is characterized by appearance of hyperkeratosis, and pustules with erythema (2), scaling commonly in the central portion of palms and soles. A Palmoplantar pustule begins with small pin-sized eruption (3) in hands and soles & pain while walking (4) (5). The condition is chronic and can produce significant functional disability which can cause impairment in quality of life and due to its recurrent nature; there is no specific treatment modality. In Ayurveda, the disease cause due to lifestyle changes in diet, stressful schedule and unsuitable/incompatible conditions suppression of natural urges, Etc. (6) According to Acharya Charak, it has been stated as all types of Kushtha is Tridoshaj (7) which vitiate the Twak (skin), Rakta (blood), Mamsa (muscles), Ambu (plasma) this all together cause the Kushtha (7) (8). According to Ayurveda palmo-plantar psoriasis can be related with the Vipadika Kshudra Kushtha, characterized by Pani-Padasputan (cracks in soles and palms) associated with Trivavedana (severe pain on sites). It is predominant in Vata and Kapha Dosha’s (9)

And it can be treated by Shodhana & Shaman which can resist the reoccurrence of disease (10). The report deals with a case of Palmo-plantar psoriasis came for Ayurvedic treatment in term as of Shodhan Chikitsa followed by Shaman Karma. The informed written consent was obtained from the patient for the publication of present case report.

Aims and objectives

Aim

- To evaluate the efficacy of classical Vaman Karma with Shaman Chikitsa in the management of palmo-plantar psoriasis.

Objective

- To Study the disease Vipadika - Kshudra Kushtha and Palmo-plantar psoriasis from available Ayurvedic and contemporary medical literatures.

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• To study the effect of Vaman Karma with Shaman Chikitsa in management of Palmo-plantar psoriasis.

Materials and Methods
According to Acharya, Kushtha is one of the indication for Vaman Karma (11). The line of treatment given to the patient was according to the treatment principle given in the classical text as Yamana karma (12), as per the prominence of Dosha the treatment mentioned- in Vataj and Kaphaj type of Kushtha is intake of Ghruta and Vaman (emesis) respectively. As Vipadika is the Vataj-Kaphaj Dosha predominant, the line of treatment can be given as Vaman karma. Ayurveda has described the Palmo-plantar psoriasis under the Kushtharoga, which is managed by Vaman or Virechan followed by Shaman Chikitsa (13).

Case Report
A 56 year old male patient came to care on (14.01.2019) with the complaints of itching, cracked soles and palms, scaling in both palms and soles since 16 year (2003). The patient also has been suffering from constipation, stress, and pain during walking due to cracks on both soles. The patches on both palms and soles were gradually progressive and the onset was in subtle way. The patient has a history of constipation on & off from 6-7 years. The patient was diagnosed to have Palmo-plantar psoriasis; He took allopathic treatment & off from 6-7 years. The patient was instructed about the condition of the disease i.e. the prominence of Dosha’s.

Past History
The patient has the history of itching over both palms and soles, pain on sites along with cracks in bilateral soles and palms, took homeopathy treatment like Anti-fungal medicaments, creams, steroids for bilateral soles and palms, took homeopathy treatment for skin complaints recurrently from 12 years, later the appearance of local tenderness became severe due to which he came for Ayurveda treatment.

General Examination

<table>
<thead>
<tr>
<th>Sthan</th>
<th>Lakshan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nadi (pulse)</td>
<td>78/min (Mandagati)</td>
</tr>
<tr>
<td>Mala (feces)</td>
<td>Vibhandha (Constipation)</td>
</tr>
<tr>
<td>Mutra (urine)</td>
<td>Samyak (Normal)</td>
</tr>
<tr>
<td>Jivha (tongue)</td>
<td>Niram (Non-coated)</td>
</tr>
<tr>
<td>Shabda (speech)</td>
<td>Spashta (Clear transitive verb)</td>
</tr>
<tr>
<td>Sparsha (touch)</td>
<td>Anushnasheeta (Afebrile)</td>
</tr>
<tr>
<td>Drik (eye)</td>
<td>Normal (No pallor/icterus)</td>
</tr>
<tr>
<td>Akriti (shape)</td>
<td>Madhyam (Medium)</td>
</tr>
</tbody>
</table>

Vital Data
After examine the Asthavidha (Table No.1) as per Ayurvedic perspective it is also important to measure vitals before the procedure. The pulse rate of the patient was 80/min, while blood pressure in systole and diastole was 110/90 mmHg. The respiratory rate of the patient was 18/min.

Skin Examination
- Inspection
  • Size Shape- Scaling in both palms and soles
  • Color- White Silvery scales
  • Uniformity- Generalized plaques with Cracked
  • Thickness- More than 0.5 cm in diameter
  • Lesions- Plaques
- Palpation
  • Moisture- Dryness, no sweating
  • Temperature- warmth of the skin
  • Texture- Roughness
  • Mobility and turgor- reduced

Differential Diagnosis
Palmo- Plantar Psoriasis, Tenia Pedis, Palmoplantar Keratoderma

Final Diagnosis
Palmo-plantar Psoriasis

Shodhan Chikitsa
According to Koshta (nature of digestive tract) of patient i.e. Krura Koshta, predominant Dosha, and the condition of the disease Vaman Karma was planned. The patient was instructed about the Snehapana (Internal administration of Sneha Dravya), Swedana (steam therapy), dietary regimen, & procedure of Shodhan.

According to the Acharya Vaybhata, the person of Krura Koshta is contraindicated for Vaman Karma. (14). But during the period of Snehapana in Purvakarma it was observed that, the constipation of the patient was relieved, and the Vaman was planned instead of Virechan because according to Acharya, Vaman is best considered treatment for Kaphaj predominant Vyadhis. Vaman is priorly done before Virechan because if Kapha is eliminated by Vaman Karma then Virechan can be done easily but if the Virechan is planned before Vaman it will cause increase in Kapha Dosha and covers the Agni due to which Virechan is not possibly done.


The procedure is divided in three parts Purva, Pradhana & Praschat Karma (procedure before, at time, after the Vaman respectively).

- Purva karma
It has been believed in Ayurveda, every disease is originated from Koshta to Shakha (bodily elements i.e. Saptadhatus), i.e. due to imbalance of Agni (digestive fire), the Dosha’s become imbalance and though spread
all over the Shakha and cause the disease. The Purvakarma plays an important part in bringing back the Dosha’s from Shakha to Koshtha so as to eliminate.

- The patient was advised to administrate Agnitundi Vati 250mg twice a day with lukewarm water, before meal and to continue the same for 3 days (1st to 3rd day).
- After 3 days, the patient was given Abhyantar Snehapan of Mahatiktaghruta for 7 days (4th-10th day). Started dosage with 30ml (2 -tablespoon) (Table No.2) with lukewarm water in morning on empty stomach.
- After the completion of Snehapan, the patient was observed for rest on 11th day followed by Bahya Snehana and Swedan Karma, on rest day and on Vaman day i.e. 9th and 11th day (day of Vaman).
- Abhyanga (external oleation/massage) (Bahya Snehan) was done with Dashmula Taila, and Nadisweda with Dashmula Kwath.

<p>| Table No. 2- Dose of Snehapan for 7 days |</p>
<table>
<thead>
<tr>
<th>Day</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>30 ml</td>
</tr>
<tr>
<td>Day 2</td>
<td>50 ml</td>
</tr>
<tr>
<td>Day 3</td>
<td>70 ml</td>
</tr>
<tr>
<td>Day 4</td>
<td>90 ml</td>
</tr>
<tr>
<td>Day 5</td>
<td>110 ml</td>
</tr>
<tr>
<td>Day 6</td>
<td>130 ml</td>
</tr>
<tr>
<td>Day 7</td>
<td>150 ml</td>
</tr>
</tbody>
</table>

- Pradhan Karma
  The Vaman Karma is performed in the morning at 7 am.
  - On the day of Vaman, after the proper Abhyanga and Nadi Sweda and observation of symptoms of previous digested food, and proper sleep, the patient was advised to sit comfortably on chair.
  - The vitals examinations were done.
  - Intake of milk till stomach full was given.
  - Administration of Madanphala Pippali Vamak Dravya with Vamanopaga Kwath of Yashtimadhu Phanta was given and observed for Samyak Siddhi

- Paschat Karma
  - After the completion of Vaman Karma the patient was advised to take rest in a room avoidance of direct exposure of air, sound and not to sleep.
  - The vitals were examined.
  - The patient was given Dhumanapa (medicated smoke).
  - At the end the patient was asked to follow Samsarjan karma for 7 days. Starting from the day of Vaman. Along with behavioral changes patient is allowed to take Peya, Vilepi, Yavagu as a diet regimen.

- Shaman Karma
  Acharya Charak has mentioned the role play of Panchakarma procedure by saying that the disease is treated by Shodhan does not reoccur but the diseases treated by Shaman may reoccur after the course of time (15) If the Shaman Dravya are administered after the proper Shodhan, it gives the additional effect and relief by removing the adherent Dosa in Strotas and helps to eradicate the diseases completely. While consultation to the patient, it was discussed regarding both Shaman and Shodhan Chikitsa.
  After the Shodhan Karma, when Samsarjan Karma is completed, the patient was advised for Shaman Chikitsa (Table 3,4,5,6).

- Observations
  - Vega – 7 Vega
  - Upvega – 9 Upavega
  - Antiki Dosa – Pitta Dosa
  - Complications – No any complications
  The patient’s Vaman Karma resulted in Avara Shuddhi of Dosa which reduced the symptoms of previously aggravated Dosa.

Table 3– Administration of medicine with their dose, duration, route and Anupan

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Drugs</th>
<th>Dose &amp; Anupan</th>
<th>Time</th>
<th>Route</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gandhak Rasayan</td>
<td>2 tablets of 250mg</td>
<td>Twice a day</td>
<td>Oral</td>
<td>30 days</td>
</tr>
<tr>
<td>2</td>
<td>Atrisor cream</td>
<td>q.s</td>
<td>Thrice a day</td>
<td>Local Application</td>
<td>30 days</td>
</tr>
<tr>
<td>3</td>
<td>S-kin powder With gomutra</td>
<td></td>
<td>Before bath</td>
<td>Local Application</td>
<td>30 days</td>
</tr>
<tr>
<td>4</td>
<td>777 Oil</td>
<td>q.s</td>
<td>At night</td>
<td>Local Application</td>
<td>30 days</td>
</tr>
</tbody>
</table>

Gandhak Rasayan

Table No 4– Ingredients of Gandhaka Rasayana with

- Lakshans (adequate Vaman procedure symptoms) such as sweating, discomfort in stomach and nausea.
- The patient was supported by massage over spine, and abdominal muscles to move upward for free evacuation.
- The Samyak Lakshanas (adequate procedure symptoms) were observed such as onset of Vega, feeling of lightness, absence of discomfort, sense of weakness.
- The Vegas (actual urge of vomitus) and Upavegas (nearer to urge of vomitus) and Antiki Dosa (End substance of vomitus) were observed.

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Results
After the Avara Shudhi of the patient by Vamanadi Shodhan Karma, followed by Shaman Chikitsa, the symptoms like pain soles and palm, cracked soles and palm, silvery scaliness of the disease were reduced. The patient got satisfactory relief from the older diseased complaints. (Table 7) (Fig. 1).

Discussion
According to Ayurvedic literature, psoriasis can be correlated with Kushtha by having predominance of Vata, Pitta, Kapha and Rasa, Rakta, Mamsadhatu and skin as Upadhata of Mamsadhatu. (16). In the present case study the patient was first treated with digestive and carminative (Deepen-Pachan) treatment by Agnitundi Vati having kuchla (nux-vomica seeds) as main ingredient. It is considered as best appetizer and has the digestive potency which digest the Aam (Undigested Food) from koshta (colon) further which relieve the vibandha (constipation) and simultaneously increase the digestive fire. By stimulating the digestive juices it improves the bowel movement. Its Later transferred to Abhyang and Nadi Sweda to aggravate the Dosha and liquify the Dosha in the site of presence and bring back to Kushtha which after eliminated following Shodhan Karma i.e. Vaman. Other literatures such as Sharangdhara Samhita, Bhaisajya Ratnavali Adhikaran, other literatures such as Sharangdhara Samhita, Bhaisajya Ratnavali Adhikaran, Acharya has stated that Gandhak rasayan has the properties like Tikta rasa, Ushna virya, and Ghruta as a base which is capable of maintenance of Rasa Dhatu and hence indirectly helps to treat the Kushtha. As Kushtha is the disease which occurs due to vitiation of Tridoshas the Gandhak rasayan was used in Shaman Chikitsa which is beneficial for maintaining the normal status of Raktadhatu as well as maintain the normalcy in perspiration in order to remove pitta and Kapha from body hence this drug is beneficial for skin disorders. The palmo-plantar psoriasis is correlated with Vipadika Kshudra Kushtha, in which Vata and Kapha dosha are predominance. So, the treatment was given to eliminate the impaired dosha from Kushtha by Vaman Karma. After the proper Shodhan Karma, in Shaman Chikitsa cream was advised for local application as a necessity mentioned by Acharya (17). So, the Atrisor cream was advised to use as topical application. It is an herbal anti-pсорiatric topical cream which gives quick relief from the symptoms like dryness, itching and signs

The table below shows the results of the treatment:

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Clinical Features</th>
<th>Before Treatment</th>
<th>After Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cracks in soles and palms</td>
<td>+++</td>
<td>+</td>
</tr>
<tr>
<td>2</td>
<td>Local tenderness</td>
<td>+++</td>
<td>+</td>
</tr>
<tr>
<td>3</td>
<td>Scaly appearance</td>
<td>+++</td>
<td>No scaly appearance</td>
</tr>
<tr>
<td>4</td>
<td>Itching</td>
<td>+++</td>
<td>No Itching</td>
</tr>
<tr>
<td>5</td>
<td>Skin eruption(pustules)</td>
<td>+++</td>
<td>+</td>
</tr>
</tbody>
</table>

### Table No 5 – Ingredients of Atrisor Cream with mode of action

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Latin name</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jivanti</td>
<td>Leptadenia reticulata</td>
<td>Anti-inflammatory</td>
</tr>
<tr>
<td>Manjistha</td>
<td>Rubia cordifolia</td>
<td>Anti-helminthic, Anti-pyretic</td>
</tr>
<tr>
<td>Haridra</td>
<td>Curcuma longa</td>
<td>Anti-pyretic, Anti-helminthic</td>
</tr>
<tr>
<td>Streekutaja</td>
<td>Wrightia tinctoria (Roxb.)</td>
<td>Anti-fungal</td>
</tr>
<tr>
<td>Kera taila</td>
<td>Cocos nucifera</td>
<td>Anti-bacterial, Anti-inflammatory</td>
</tr>
<tr>
<td>Tuvaraka taila</td>
<td>Hydnocarpus wightiana</td>
<td>Anti-inflammatory</td>
</tr>
</tbody>
</table>

### Table No 6 – Ingredients of 777 oil with their actions

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Latin name</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coconut oil</td>
<td>Cocos Nucifera</td>
<td>Anti-bacterial, Anti-inflammatory</td>
</tr>
<tr>
<td>Swetakutaja</td>
<td>Wrightia Tinctoria</td>
<td>Anti-fungal</td>
</tr>
</tbody>
</table>

### Table No 7 – Difference is appearance of Symptoms according to treatment.

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Clinical Features</th>
<th>Before Treatment</th>
<th>After Treatment</th>
</tr>
</thead>
</table>
of inflammation. By its emollient action it helps in bringing back the normal texture and complexion of skin. At the end he was also advised to use 777 oil for local application as it has the soothing effect and act as a moisturizer to skin by its nutritive ingredients such as coconut oil. In the condition like psoriasis, the damaged cells produce rapidly and form the thickened skin itching, dryness and scaly appearance is produced over the site. By the action of the contents present in the oil it softens the area and makes it soft by reducing dryness. It acts as a demulcent. All this Shaman Chikitsa treats the psoriasis by reducing its signs and symptoms.

**Conclusion**

In the present study almost satisfactory result were seen in signs and symptoms of such autoimmune disease like palmo-plantar psoriasis by the Shodhan Karma and Shaman chikitsa. As the disease mentioned under the Kushtharoga, originated by imbalance of Tridosha, the vamam procedure was advised to remove the impaired dosha from koshta which is followed by shaman chikitsa. Large sample studies would render a better result of the in such complicated disease. Both the procedures and drugs were well tolerated by the patient and no adverse drug reaction was reported. Hence it can be concluded that shodhan karma along with topical application of cream can be effectively used in palmo-plantar psoriasis.

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