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Case Report

Shweta Pradara

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Management of Shweta Pradara in Diabetic Women - Case Report

Ramadevi G¹, Thakur C^{2*}, Jain A³

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- ¹ Ramadevi G, Professor and HOD, Department of PG and PhD Studies in Prasuti Tantra evum Stree Roga, Sri Dharmasthala Manjunatheshwara College of Ayurveda, Hospital and Research Centre, Kuthpady, Udupi, Karnataka, India.
- ^{2*} Cynthia Thakur, Final Year Post Graduate Scholar, Department of PG and PhD Studies in Prasuti Tantra evum Stree Roga, Sri Dharmasthala Manjunatheshwara College of Ayurveda, Hospital and Research Centre, Kuthpady, Udupi, Karnataka, India.
- ³ Arpana Jain, Assistant Professor, Department of PG and PhD Studies in Prasuti Tantra evum Stree Roga, Sri Dharmasthala Manjunatheshwara College of Ayurveda, Hospital and Research Centre, Kuthpady, Udupi, Karnataka, India.

Shweta Pradara, a condition characterized by excessive white vaginal discharge, is described in Ayurvedic texts as a disorder arising primarily due to aggravation of Kapha Dosha and the vitiation of Rasa Dhatu. This condition can be correlated to leucorrhoea in modern medicine. Causative factors include improper dietary habits, poor hygiene, sedentary lifestyle, and excessive mental stress resulting in white discharge, fatigue, and pruritus which contribute to reproductive health issues. Here, patient had complaints of white discharge per vagina persisting for the past 1 month associated with itching in the vaginal area and burning micturition from past 5-6 months. She was advised Chandraprabha Vati 1 TID, Musalikhadiradi Kashaya 20ml TID with honey, Asanadi Kwath 50ml BD, Avipattikara Churna ½ tsf HS for 15 days as Shamana Chikitsa. Additionally, therapies like Sthanika Chikitsa (local treatment), Yoni Dhawana with Triphala Kwath f/b Yoni Pichu with Dhatakyadi Taila and Pathya-Apathya (diet and lifestyle modifications) play a crucial role in prevention and treatment. She got excellent relief in symptoms by above treatment. This case highlights the efficacy of Ayurvedic therapies in managing Shweta Pradara by providing symptomatic relief and improving the overall health of the patient. The combination of Shamana Chikitsa and Sthanika Chikitsa ensures a holistic approach by addressing both systemic and local imbalances.

Keywords: Shweta Pradara, Kapha Dosha, Rasa Dushti, Yoni Dhawana, Vaginal Discharge, Gynecological Disorders, Physiological leucorrhoea, Pathological leucorrhoea, Bacterial vaginosis

Corresponding Author	How to Cite this Article	To Browse
Cynthia Thakur, Final Year Post Graduate Scholar, Department of PG and PhD Studies in Prasuti Tantra evum Stree Roga, Sri Dharmasthala Manjunatheshwara College of Ayurveda, Hospital and Research Centre, Kuthpady, Udupi, Karnataka, India. Email: thakur.cynthia25398@gmail.com	Ramadevi G, Thakur C, Jain A, Management of Shweta Pradara in Diabetic Women - Case Report. J Ayu Int Med Sci. 2025;10(2):312-318. Available From https://jaims.in/jaims/article/view/3984/	

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Introduction

Throughout various stages of a woman's life, from puberty through menopause, maintaining a healthy reproductive system is crucial, as emphasized in Ayurvedic science. Due to the unique role of reproduction, women are susceptible to several distinct female health issues. Today, vaginal infections, collectively known as Yonirogas, pose a common concern for women of all ages and backgrounds and remain one of the most prevalent issues encountered by women. Normal vaginal discharge may appear clear or cloudy white and should not have any odour or cause local irritation. Changes in the consistency, colour, amount, or smell of vaginal discharge may indicate vulvovaginal infections or other underlying conditions of the genital tract.

Shweta Pradara is described in ancient Ayurvedic texts such as Sharangdhar Samhita,[1] Bhavaprakash,[2] and Yogratnakar.[3] In Charak Samhita, the management of Shweta Pradara is detailed under the description of Pandura Asrigdara. Commentator Chakrapani explained the term Pandura Asrigdara as Shweta Pradara in his commentary on *Charak Samhita*.[4] Also, *Shweta* Pradara or Yonisrava is mentioned as a symptom in various other diseases also.Based on the clinical features, Shweta Pradara can be considered a Kaphaja disorder in the region of Apana Vayu, as any type of Srava (discharge) is a result of Kapha Dosha. It can be said that vitiated Kapha, along with various factors, leads to white vaginal discharge due to Rasadushti caused by Kapha. Thus, Shweta Pradara is a result of Kaphadushti, Rasadushti, and Vatadushti.

Case Report

A 46-year-old female patient presented to the OPD of *Prasuti Tantra* & *Stree Roga* at SDM College of Ayurveda and Hospital & Research Centre, Udupi, with complaints of white discharge per vagina persisting for the past 1 month. The discharge was thin in consistency and persistent throughout the month. She also complained itching in the vaginal area and burning micturition from past 5-6 months. Additionally, she reported complaints of constipation and low backache.

History of past illness: K/C/O Diabetes Mellitus since 4 years under Tab. Metformin 500mg.

 $\ensuremath{\mathsf{K/C/O}}$ of Hypertension since 8 years under tab Pinom 20

History of Surgery: nothing significant

Family History: nothing significant

Menstrual History:

Menarche - 13 years LMP - 4 months ago Duration - 5 days Interval - Irregular Amount of blood loss - moderate

Obstetrics History:

P1 L1 A1 L1-15 years, Male, FTND A1- at 1 month, MTP done, 16 years ago.

Clinical Examination:

BP - 130/80 mm of Hg Pulse - 80/min Temp. - 98.4°F RR - 18/min

Examination

Systemic examination:

- Respiratory System: B/L Chest clear, Airway entry, breathing entry Clear
- Cardiovascular System: S1 S2 heard.
- CNS: All superficial reflexes are intact. Patient was conscious and well oriented.
- GIT: Soft Abdomen, Bowel sound heard, No Pain or any other symptoms.

Local examination:

- P/S Cervix upper lip hypertrophied, vagina healthy, white discharge ++
- P/V Uterus retroverted, normal size, CMT Negative, B/L fornixes free

Dashavidha Pareeksha:

- 1. Prakriti Kapha Pradhana Vata Anubandhi
- 2. Vikriti Kapha
- 3. Sara Madhyama
- 4. Samhanana Madhyama
- 5. Satmya Madhyama
- 6. Satwa Avara
- 7. Pramana Madhyama
- 8. Ahara:

Abhyavaharana Shakti - Madhyama

Jaranashakti - Madhyama 9. Vyayama Shakti - Madhyama 10. Vaya - Madhyama

Investigations:

Lab investigations on 9/04/2024

Hb - 12.1 gm% FBS - 160 mg/dl PPBS - 205 mg/dl Urine albumin and sugar - nil Epithelial cells - 1-2 /HPF Pus cells - 2-3/HPF RBC - 0-1 /HPF Cast, crystal, other - nil

USG Abdomen & Pelvis on 12/04/2024:

Liver - Grade 1 fatty infiltration. Normal in size. No intra hepatic duct dilatation. No obvious focal lesions.

Uterus - normal in size and echotexture. ET - 7-8mm

Both the ovaries appear normal. No free fluid in abdomen & pelvis.

Assessment Criteria

1. Shweta Srava (Vaginal White Discharge):

No vaginal discharge - 0

Mild (Occasionally wetting undergarments /slight discharge) - 1

Moderate (wetting of undergarments) - 2

Severe (Heavy discharge which needs Vulval pads) - 3

2. Katishoola (Backache):

No pain - 0

Mild (Can withstand pain & can manage routine work) - 1

Moderate (Cannot manage routine work & need to take rest) - 2

Severe (Cannot withstand pain & needs treatment) - 3

3. Yoni Kandu (Itching of vulva):

No itching - 0 Mild (Slight rub) - 1 Moderate (Instant rub causing redness) - 2 Severe (Continuous rub causing redness) - 3

Intervention

Shamana Aushadh: Patient was advised with;

SN	Drugs	Dose
1.	Chandraprabha Vati	1 TID A/F
2.	Musalikhadiradi Kashaya	20ml TID with honey A/F
3.	Asanadi Kwatha	50ml TID A/F
4.	Avipattikar Churna	1/2 tsp HS with hot water

Sthanika Chikitsa:Yoni Dhawana with Triphala Kwath f/b Dhatakyadi Taila Yoni Pichu was given for 7 days.

Chandraprabha Vati ingredients[5]

SN	Drugs	Quantity
1.	Chandraprabha (Karpura)	3 gms (1 shana)
2.	Vacha	3 gms (1 shana)
3.	Musta	3 gms (1 shana)
4.	Bhunimba	3 gms (1 shana)
5.	Amrita (Guduchi)	3 gms (1 shana)
6.	Suradaru	3 gms (1 shana)
7.	Haridra	3 gms (1 shana)
8.	Ativisha	3 gms (1 shana)
9.	Darvi	3 gms (1 shana)
10.	Pippalimula	3 gms (1 shana)
11.	Chitraka	3 gms (1 shana)
12.	Dhanayaka	3 gms (1 shana)
13.	Amalaki	3 gms (1 shana)
14.	Haritaki	3 gms (1 shana)
15.	Vibhitaki	3 gms (1 shana)
16.	Chavya	3 gms (1 shana)
17.	Vidanga	3 gms (1 shana)
18.	Gajpippali	3 gms (1 shana)
19.	Shunthi	3 gms (1 shana)
20.	Maricha	3 gms (1 shana)
21.	Pippali	3 gms (1 shana)
22.	Makshika	3 gms (1 shana)
23.	Sarjja Kshara	3 gms (1 shana)
24.	Yava Kshara	3 gms (1 shana)
25.	Saindhav Lavana	3 gms (1 shana)
26.	Sauvarchala Lavana	3 gms (1 shana)
27.	Vida Lavana	3 gms (1 shana)
28.	Trivrit	12 gms (1 Karsha)
29.	Danti	12 gms (1 Karsha)
30.	Patraka	12 gms (1 Karsha)
31.	Tvak	12 gms (1 Karsha)
32.	Ela	12 gms (1 Karsha)
33.	Vamslochana	12 gms (1 Karsha)
34.	Loha	24 gms (2 Karsha)
35.	Sita	48 gms (4 Karsha)
36.	Shilajatu	96 gms (8 Karsha)
37.	Guggulu	96 gms (8 Karsha)

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Ingredients of Musali Khadiradi Kashaya[6]

SN	Drugs	Virya	Doshaghnta
1.	Musali	Ushna	Vatapitta Shamaka
2.	Khadira	Sheeta	Kaphapitta Shamaka
3.	Amalaki	Sheeta	Tridosha Shamaka
4.	Trikanta (Gokshura)	Sheeta	Vatapitta Shamaka
5.	Jambu	Sheeta	Kaphapitta Shamaka
6.	Vari (Shatavari)	Sheeta	Vatapitta Shamaka

Ingredients of Asanadi Kwath Churna[7]

SN	Drug name	Karma	Doshaghnta
1.	Asana	Medohara, Rasayana, Keshya	Kapha Pitta Shamaka
2.	Khadira	Kandughna, Medoghna, Mehaghna, Shothahara, Pittasrahara	Kapha Pitta Shamaka
3.	Manjishtha	Mehahara, Shothahara, Vranahara	Kapha Pitta Shamaka
4.	Sariva	Kanduhara, Nehanashana, Amahara, Agnisada, Pradanut, Daurgandhanashaka	Tridosha Shamaka
5.	Usheera	Stambhana, Mehanut, Mutrakrichahara, Dahaprashmana	Vata Pitta Shamaka
6.	Ashwagandha Balya, Rasayana, Shophahara, Kanduhara, Kshayahara		Tridosha Shamaka
7.	Haritaki	itaki Shothahara, Anulomana, Deepana	
8.	Vibhitaki Deepana, Bhedana, Shothahara, Vedanasthapana, Anulomana,		Tridosha Shamaka
9.	Amalaki	Dahaprashamana, Rochana, Pramehaghna Amlatanashaka, Sramsana, Mutrala,	Tridosha Shamaka
10.	Punarnava	Shothanashaka, Panduhara, Ruchya, Shulanut, Vranahara, Kshaar	Kapha Vata Shamaka
11.	Haridra	Prameharaharanam, Mehanut, Vishodhini, Pitta Rechaka, Aruchinashini	Tridosha Shamaka
12.	Gokshura	Brihmana, Pramehahara, Agnikrit, Basti Shodhana, Sheetala, Deepana	Tridosha Shamaka
13.	Saptachakra	Kandughna, Premehara, Deepana, Kushthaghna, Jwarahara	Kapha Pitta Hara

Ingredients of Avipattikara Churna[8]

SN	Drug name	Karma	Doshaghnta
1.	Shunthi	Deepana, Pachana, Anulomana	Kapha Vata Shamaka
2.	Maricha	Deepana, Pachana, Anulomana, Krimighna	Kapha Shamaka
3.	Pippali	Mriduvirechana, Mutrala, Deepana	Kapha Vata Shamaka
4.	Haritaki	Shothahara, Anulomana, Deepana	Tridosha Shamaka
5.	Vibhitaki	Deepana, Bhedana, Shothahara, Vedanasthapana, Anulomana,	Tridosha Shamaka
6.	Amalaki	laki Dahaprashamana, Rochana, Pramehaghna Amlatanashaka, Sramsana, Mutrala, Ti	
7.	Musta	ta Deepana, Pachana, Grahi, Shothahara, Mutrala K	
8.	Vida Lavana	vana Deepana, Rochana, Vatanulomana V.	
9.	Vidanga	anga Deepana, Pachana, Anulomana, Mutrajanana, Krimighna K	
10.	Ela	Deepana, Pachana, Rochana, Anulomana, Mootrajanana, Dahaprashamana	Tridosha Shamaka
11.	Patra	Vishagna, Mukhashodhana, Bastidoshaghna, Deepana, Mootrajanana	Kapha Vata Shamaka
12.	Lavanga	avanga Deepana, Pachana, Ruchya, Vatanulomana, Krimighna, Shoolaprashamana, Mutrala, Amapachana, Vranaropan	
13.	Trivrut	Sukhavirechaka, Bhedana, Rechana, Shothahara	Kapha Pitta Shamaka
14.	Khanda	Balya, Brumhana, Chakshushya, Vrushya	Tridosha Shamaka

Ingredients of Triphala Kwath[9]

SN	Drug name	Karma	Doshaghnta
1.	Haritaki	Anulomana, Sarvadosha Prasamana, Vatahara, Lekhana	Tridosha Shamaka
2.	Vibhitaki	Kriminashana, Bhedaka, Kaphahara	Tridosha Shamaka
3.	Amalaki Dahahara, Vrishya, Pittahara T		Tridosha Shamaka

SN	Drug	Guna	Karma	
1.	Dhataki	Laghu, Ruksha	Kapha-Pitta Shamaka, Krimighna	
2.	Amalaki	Ruksha, Laghu	Tridosha Shamaka	
3.	Madhuka	Guru, Snigdha	Vata Pitta Shamaka, Vatahara,	
			Shothahara	
4.	Utpala	Laghu, Snigdha	Rakta-Pitta Hara, Kaphahara	
5.	Jambu	Ruksha	Kapha-Pitta Shamaka	
6.	Amra	Guru, Snigdha	Kapha-Vata Hara, Vranaropana	
7.	Kasisa	-	Vata-Kapha Hara, Vishaghna, Kandughna	
8.	Lodhra	Ruksha	Pitta-Kapha Shamka, Vishaghna,	
			Shothahara	
9.	Katphala	Laghu, Tikshna	Kapha Vata Shamaka, Premehara	
10.	Tinduka	Laghu, Ruksha	Vatahara, Vranaropana	
11.	Dadima	Laghu, Snigdha	Pitta- Kapha Shamak, Deepana, Ruchya	
12.	Udumbara	Ruksha, Guru	Kapha-Pitta Hara, Dahaprashamana,	
			Stambhana	
13.	Sourashtrika	Guru, Snigdha	Tridosha Shamaka, Vranaghna,	
			Raktastambhaka	
14.	Strotoanjana	Snigdha	Kaphapittaraka Roganut, Lekhana	

Ingredients of Dhatakyadi Taila[10]

Results

Gradation of parameters at follows up

SN	Assessment criteria	Before treatment	After treatment
1.	Shweta Srava	3	1
2.	Katishola	2	1
3.	Yoni Kandu	2	0

Discussion

The treatment for this patient was based on the symptoms of her condition. In *Shweta Pradara, Kapha* is the primary pathogenic factor. Additionally, in this patient there was impaired metabolism of the *Rasa Dhatu (Rasa Dhatwagni Mandya)* and vitiation of *Apana Vayu*.

Chandraprabha Vati was beneficial in burning micturition and Diabetes mellitus. It is indicated in *Prameha, Mutravaha Srotovyadhi* and is having *Tridoshamaka* property. It possesses properties such as *Tikta* (bitter), *Katu* (pungent) *Rasa, Laghu Ruksha Guna*. It is predominantly *Vatakapha Shamaka* and *Jantughna* (antimicrobial), and *Mutral* (diuretic).**[11]** *Yavakshara* and *Svarjika Kshara* present in *Chandraprabha Vati* are alkaline substances which decrease the acidity of urine and gives relief in burning micturition. The drugs namely *Pippali, Shunthi, Maricha, Chavya, Musta, Ela, Lavanas,* *Ksharas* help to relieve the state of *Mandagni* which is identified as one of cause in this case. *Chandraprabha Vati* has multidimensional actions and is effective for both acute and chronic cases.

MusalikhadiradiKashayapossessesRaktasthapana, Balyaand Vata PittaShamakaproperties. Due to sheeta veerya property of drugs,it has Stambhanaaction which is used in vaginaldischarge.ItisindicatedinShwetaPradara(Leucorrhoea), Yoni Roga, Yoni Sravaand isgiven along with Madhu, which is having YogavahiGuna and Rakta Pithahara property.[12]

Asanadi Kwath: In Diabetic patients, achieving relief from vaginal symptoms requires better glycaemic control. The acidic environment of the vagina in diabetic patients promotes infections. Therefore, attaining normal blood glucose levels in this patient was essential to combat vaginal infections, despite her regular intake of allopathic medications. Hence, Asanadi Kwatha was advised to the patient. It possesses Kashaya Rasa (astringent taste), Sheeta Virya (cold potency), and acts as a Pittahara (Pacifier of Pitta) and Raktashodhaka (blood purifier). It has Deepana, Dahahara, Mala Vatanulomana, Kandughna, Virechana properties are seen in this formulation. It is indicated in Prameha (diabetes) and Medo Roga (disorders related to excess fat) due to its Kaphahara (Kaphareducing), and *Medohara* (fat-reducing) properties. [13] Many pharmacological studies, on the drugs of Asanadi Gana, has proved that almost all the constituents possess Anti Hyperglycaemic, Antioxidant properties.[14]

Avipattikar Churna: It is indicated in Agnimandya (digestive impairment), Vibandha (constipation), (hyperacidity), *Mutraghata* (urinary Amlapitta retention), and Prameha (diabetes mellitus). The Deepana (appetite-stimulating) and Pachana Karma (digestion-promoting action) of the ingredients help regulate Agni (digestive fire) and prevent Ama (toxins) formation. Avipattikara Churna predominantly contains drugs characterized by Katu-Tikta Rasa (pungent and bitter taste), Laghu (light), Ruksha (dry), and Teekshna Guna (sharp qualities), along with a combination of *Ushna* (hot) and Sheeta Virya (cold potency). Ingredients like Trivrut, Triphala, Shunthi, and Lavanga, which are Ushna and Laghu, effectively stimulate Agni. Trivrut, with its Tikta Rasa (bitter taste), Ushna Virya, and Virechaka (purgative) properties,

Eliminates *Kleda* (moisture/toxicity) from the body, making it particularly beneficial in managing *Prameha*.

Sthanika Chikitsa (Local treatment) was advised for white discharge per vagina associated with itching, along with internal medicines.[**15**] *Yoni Dhawana* with *Triphala Kwatha*[**16**] followed by *Dhatakyadi Taila Pichu* was useful in cleansing and clearing excess secretion and discharges of vagina.

Triphala Kwath: Triphala is known for its Tridoshahara, Kledahara, Kandughna, Stambhak and Ropana properties.[17] It is a broad-spectrum anti-microbial, anti-inflammatory, anti-bacterial agent that accelerates the healing process.[18]

Dhatakyadi Taila has Kashaya Rasa, Ruksha-Laghu Guna and Kapha Dosha Shamaka properties. It has properties like Stambhaka (styptic), Shothahara (anti-inflammatory), Kandughna (antipruritic). Taila was used as it reduces the chances of infection as it is Yoni Vishodhana and having Vrana Ropaka and Vataghna properties.

Pathya and Apathya

Ahara (Dietary Recommendations):

1. Hydration: Drink plenty of water to maintain hydration and assist in flushing out toxins.

2. Fiber: rich Foods: Include green leafy vegetables, whole grains, and fibrous fruits like apples, papaya, guava, and pears to manage blood sugar levels and promote digestion.

3. Easily Digestible Food: Consume light and simple meals like khichdi, barley, or rice gruel, which are easy to digest.

4. Avoid:

- Sugary and processed foods, as they can aggravate diabetes.
- Excessive oily, spicy, or junk food that worsens *Kapha* and leads to mucus accumulation.

Vihara (Lifestyle Recommendations):

1. Maintain Personal Hygiene. Keep the vaginal area clean and dry. Wash daily with lukewarm water.

2. Clothing: Wear loose, cotton undergarments. Wash garments in boiled water mixed with antiseptic agents (like Dettol) and dry them under sunlight.

3. Physical Activity: Practice light yoga or brisk walking to enhance blood circulation and regulate blood sugar levels.

4. Sexual Hygiene: Practice proper hygiene during intercourse to prevent infections.

Conclusion

The concept of Shweta Pradara described in Ayurvedic literature shows a close resemblance to Leucorrhoea as mentioned in modern gynaecology. The Ayurvedic treatment of Shamana Chikitsa with Sthanika Chikitsa has significantly reduced the complaints of patient. For Shweta Pradara in patients with Diabetes Mellitus, achieving optimal glycaemic control is essential to manage vaginal infections effectively. Medicinal formulations with a predominance of Kashaya Rasa (astringent taste), along with Kapha Shamaka (Kapha-pacifying) and Stambhaka (stabilizing) properties, are recommended condition. for treating this Maintaining proper personal hygiene and adhering to suitable dietary regimens play a significant role in preventing Shweta Pradara.

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