



Case Study

ROLE OF STHANIK CHIKITSA IN SHWETA PRADARA ASSOCIATED WITH MADHUMEHA (DM TYPE-II): A CASE STUDY

Akshita^{1*}, Soni Kapil²

*1PG Scholar, 2Associate Professor, PG Department of Prasuti Tantra Evam Stree Roga, RGGPG Avurvedic College & Hospital Paprola, India.

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ABSTRACT

Shweta Pradara or excessive vaginal discharge is one of the commonest complaints among women of reproductive age group. An increase in the normal vaginal secretion develops physiologically at puberty, at ovulation, premenstrual phase and during pregnancy. Excessive discharge causes irritation and itching in the genetalia. Ayurveda explained this condition as Shweta Pradara. Shweta Pradara is a symptom which is present in most of the diseases or present as a complication. Shweta Pradara is not a disease it produces as a symptom, hence etiopathogenesis of principal disease and Shweta Pradara would be same. It is a Kaphaja disorder at the place of Apana Vayu. A 47 years old female patient suffering from intermittent Yonigata Shwet Strava since two years with aggravation of symptoms from one week presented to Prasuti Tantra Evam Stree Roga OPD. Yonigat Shwet Strava was associated with Yoni Kandu, Katishool, Yoni Daha. On enquiry, it was found that she was the known case of Type II Diabetes Mellitus since 10 years. She was taking medication for the same but her blood sugar levels were uncontrolled in spite of taking medication as per her recent investigations. In this case Shwet Pradar was the Updrava of Madhumeh, thus line of management was planned to control her sugar level by supplementing Ayurvedic drugs along with allopathic medicine for DM II (Madhumeh) and treated her with Yoniprakshalan with *Triphala Kwath* followed by Cutis ointment tamponing per vaginum for 14 days. She had followed the schedule of *Yoni <mark>Prakshalana</mark>,* oral medicines and *Pathya-Apathya* properly. It was observed that, symptoms were started to reduce gradually which has been depicted by documentation of investigations and local examination in this case study.

INTRODUCTION

Women have to pass through different stages and phases of life. In such a competitive and mechanical world she has to full-fill the dual responsibility for which she needs perfect physical and psychological health. Stress and malnutrition affect the general condition of health which disturbs her quality of life and causes discomfort. Amongst all these problems, abnormal vaginal discharge is the most common factor which creates irritation in women's freedom. Vaginal discharges are known as Shweta Pradara in Avurvedic classics

Tradara in riyar vedic classics.			
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Vaginal discharge is very much commonest symptom in women in India.[1] Normal vaginal discharge may appear clear, cloudy white and without any type of smell and local irritation. Changes in normal discharge can be caused by many reasons such as menstrual cycle, emotional stress, nutritional status, pregnancy, usage of medications- including birth control pills and sexual arousal and also other associated pathological conditions. The menstrual cycle affects the vaginal environment i.e., pH of vagina. Around mid-cycle, many women noticed wetness and clear thick white discharge. Just prior to and during menstruation, the pH of the vagina fluctuates during the cycle and is least acidic. Infections, therefore, infections occur most commonly at this time. Changes in the consistency, color, amount, smell of discharge may be a sign of vulvo-vaginal infectious conditions. Most of the time it is a symptom of other underlying pathologies of genital tract. The discharges may be thick, viscid, and foul smelling when it is caused by some infection. A variety of pathogens are responsible for vaginal and cervical infections and sometimes several infections co-exist. The commonly involved pathogens for abnormal vaginal discharges are Gardnerella. Chlamydia, Trichomonas. Candida Albicans etc. However sometimes due to its severity, it overshadows symptoms of actual disease and female patients prefer gynecologists for the treatment of white discharge through vagina or sometimes due to severity, even prefer to undergo hysterectomy. Shweta Pradara is described in Sharagdhar Samhita, Bhavprakash and Yogratnakar. In Charak Samhita only management of Shweta Pradara described in detail under the description of Pandurasriadara. Commentator Chakrapani has explained the word Pandura-Asrigdara as Shweta Pradara in his commentary on Charak Samhita.[2] Also in Ayurveda there are many other diseases in which Shwet Pradar/Yonisrava is described as a symptom like Vatala, Pittala, Shleshmala, Sannipatiki, Acharana, Atyananda, Aticharana, Upapluta, Paripluta, Phalinee Yonivvapadas^[3] and Parisruta Iataharini Considering clinical features of *Shweta pradara*, we can say that it is a *Kaphaja* disorder in the region of *Apana* vayu as any type of Srava (discharge) is resulted from Kapha Dosha. It may be said that vitiated Kapha along with various factors, results in white discharge through vagina, because of Rasadushthi that is caused by Kapha, along with. So, Shweta Pradara is caused by Kaphadushti, Rasadushti, Vatadushti. Excessive coitus, frequent abortions (MTP), improper lifestyle and improper dietary habits during menstruation and ovulatory period along with unhygienic vaginal conditions are commonly observed causes for Shweta Pradara (Leucorrhoea). [4,5]

Case Report

A 47 years female patient suffering from intermittent white discharge (Yonigata Shweta Srava) since two years was presented to Prasuti Tantra evum Stree Roga OPD. On enquiry, she also gave history of other associated features like Yonikandu, Katishool, Yonidaha since two years. She was the known case of Type II DM since 10 years and under medication for the same but her blood sugar levels were uncontrolled despite taking medication as per her recent investigations. She has gone for tubal ligation 20 years back. She had a regular and normal menstrual cycle without associated symptoms.

History of Past Illness: Known case of DM II since 10 years

History of Surgery: Surgical history of tubal ligation since 20 years.

Family History: Nothing significant.

Clinical Examination

Pulse	80/min
BP	122/80mm of Hg
Temp.	98.4°F
RR	18/min
Agni	Vishama
Koshtha	Maadhyama
Prakriti	Kapha Pradhan Vata Anubandhi
Sara	Rasa-Raktasara
Mutra	Avishesh
Mala	Asamyakaa Vibandha

Menstrual History: She had regular menses at the interval of 29 days, which last for 3-4 days. No other significant abnormality was observed.

Obstetrics history:

G-5, P-3, L-3, A-2

LCB- Male child delivered by NSVD at home 23 yrs back

Per Abdomen: No abnormality detected. Mild *Adhmana* was present continuously.

0.00	On Examination	Vaginal mucosa congested ++, excoriations present over labia majora		
	P/S	Cervix hypertrophied, regular, milky white discharge present		
	P/V	Cervix Hypertrophied, regular, firm, mobile, no motion tenderness.		
7	Uterus.	AV, NS, mobile, non-tender,		
1	Fornix	B/L clear, non-tender		

Investigations (26/06/22)

1 Congacions (20,00,22)
RBC – 4.98X 100000/μl
Hb – 12.6 gm/dl
HCT- 39.9%
MCV - 80.1/Lt
MCH – 25.3 pg
MCHC – 31.6 gm/dl
PLT – 242X 1000 μl
L% - 31.0%
M% - 12.4%
N% - 56.6%
ESR – 25mm/hr
B.Urea – 26mg/dl
TSB - 0.6mg/ dl
DSB – 0.2 mg/dl
SGOT – 28 IU/l
SGPT - 36 IU/l
S. Cholesterol -203 mg/dl
TGG – 145 mg/dl

HDL - 63 mg/dl	
LDL - 111mg/dl	
VLDL – 29mg/dl	
RBS -308 mg/dl	
URINE- Sugar 3+, PC – 8-10/hpf	
HIV-NR	
VDRL-NR	
USG - Revealed no significant abnormality	

Samprapti

Kapha dosha and Vata dosha (Apana vayu) get vitiated due to Hetu sevana. Vitiated Kapha also causes Rasadushti as Kapha and Rasa have Ashraya – Ashrayi

Plan of Treatment

Patient already under medications which were continued

Sambandha. Kapha and Rasa are Drava guna pradhana. Dushti of Kapha and Rasa together cause white discharge through vagina which is in the region of Apana Vayu.

Samprapti Ghatak

Dosha	Kapha, Vata
Dushya	Rasa, Mamsa
Strotsa	Rasvaha, Artavavaha,
Marag	Abhyantara
Mahabhuta-	Prithvi, Jala
Udbhavsthana	Pakvashaya samutthaja
Samprapti Prakar	Atistrav, Vimarga gamana

Drug	Dose	Ingredients	Mode of Administration
Tab. Ozomet G-2	1 tab. BD	Glimepiride (2mg) + Metformin (500mg)	Oral
Tab. GLIPOn -M	1 tab. OD	Tenegliptin 20mg + Metformin HCL 500mg	Oral

Ayurvedic Management

Drug	Dose	Ingredients	Mode of administration
Chandraprabha Vati	125mg BD	Guggul, Shilajit, Karpur, Haridra, Ativisha, Vidanga, Devdaru, Guduchi, Shunthi, Marich, Pippali, Ch <mark>itrak</mark> a bark, etc.	Oral
Tab Lukol	2 tab. BD	Pun <mark>a</mark> rnav <mark>a, Sh</mark> atavari, Dhataki	Oral
Shigru Guggul	2 tab. BD with LWW	Sh <mark>ig</mark> ru and <mark>Sh</mark> udh Gu <mark>g</mark> gul	Oral
Vijaysar Churna	5gm with LWW	Vijaysar bark, Saptarangi roots, Bilva patra, Daruhaldi rhizome, Nimb patra, Methi seeds, Tulsi leaves, Sadabahar leaves, Jamun seeds, etc	Oral
Tab. Diabecon DS	2 tab. BD	Gymnema, Pitasara, Shilajeet	Oral
Cutis Ointment	3gm	Mahamrichyadi Tail, Neem, Karanj, Sulphur, Lemongrass	L/A
Triphla Kwatha	250ml	Haritaki, Vibhitika, Amla	L/A

Sthanik Chikitsa

Yoni Prakshalan with Decoction of Triphla-Aamlaki (Embilica officinalis), Haritki (Terminalia chebula), Bibhitaki (Terminalia bellerica) followed by Cutis ointment tamponing per vagina for 14 days. After discharge from hospital, she was advised to keep cutis ointment tampon for 3-4 hours daily at home.

Method of Yoni Prakshalan

Decoction of *Triphla Churan* was used for *Yoni Prakshalan*. Decoction was prepared as *Kwatha Kalpana*. *Triphla* was taken in quantity of 100gms. 1000ml water added and boiled till it remained one fourth i.e., 250ml. After passing urine lithotomy position is given to patient. Simple rubber catheter attached to enema pot containing *Triphla Kwath*. Then *Yoni Prakshalan* was done. After *Yoni Dhavan* Cutis ointment 3 gm was spread evenly over tampon and placed in vagina near cervix for 3-4 hours.

Oral Drug Administration

Patient was treated with *Chandraprabha Vati* 125mg twice a day, *Shigru Guggul* 2 tab twice a day with *Koshan Jal* as a *Anupana*, Tab Lukol 2 tab twice a day after meal along with antidiabetic medications for 30 days. Patient follow up were taken at the interval of one week.

Assessment Criteria

Shweta Srava (White discharge)

No vaginal discharge – 0

Mild discharge - 1 (vulva moistness)

Moderate discharge - 2 (wetting of

undergarments)

Severe – 3 (heavy discharge)

Katishool (Lower back pain)

No pain – 0

Mild – 1 (can withstand pain)

Moderate – 2 (can't manage regular work)

Severe – 3 (can't withstand pain)

Yonikandu (Itching of vulva and vagina)

No itching – 0 Mild itching – 1

Moderate itching – 2 (rubbing causes redness)

Severe itching – 3 (continuous)

Yonidaha (Burning sensation)

No burning sensation- 0

Mild - 1 (occasional)

Moderate -2 (frequently)

Severe – 3 (continuous burning)

Daurgandhya (Foul smell)

Absent – 0

Mild - 1

Moderate - 2

Severe - 3

Pathya Apathya

She was advised to follow *Ahara –Vihar Pathya* as follows:

Early - Morning

One glass of water + 1 tsp fenugreek seeds/*Amla* powder

Copper pot water – 1 glass + 5 *Tulsi* leaves + 5 mint

leaves

Breakfast

Broken wheat porridge/Veg Semolina (veg upma)/ Veg Vermicelli/ Veg *Idli*/ Veg Oats/*Besan* pancake (gram flour)/*Missi Roti*/ Chapatti with veg or *Dal* + egg white

Jamun juice, berries, guava juice

Mid - Morning

Fruit/salad/coconut water/sprouts

Lunch

Missi Chapatti/plain chapatti/vegetable + *Dal* + salad /fish/chicken (occasionally)

Fenugreek seed powder – 10gm (15 min before meal with buttermilk)

Evening

Herbal tea/roasted chana/soup (homemade)

Dinner

Missi chapati/plain chapatti/vegetable + *Dal*/Nutrinuggets/salad

Important

Sugar - nil

Diet Instructions

Cereals to be Consumed

Whole wheat, whole grains cereals, oats

Flour Ratio- Chana flour - 250gm + wheat flour - 1kg

Cereals to be Avoided

Whole refined flour and its products, refined sugar, rice

Fruits to be Consumed

Guava, papaya, melon, blackberry (Jamun), plum, Amla

Fruits to be Avoided

Mango, litchi, grapes, dates, sapodilla

Vegetables to be Consumed

Okra (*Bhindi*), cauliflower, cabbage, beans, spinach, mushroom, capsicum, bottle gourd, radish, pumpkin, green beans, fenugreek leaves, broccoli, cucumber, ginger, green chilli, coriander, turnip, mint, curry leaf.

Vegetables to be Avoided

Jackfruit, yam, sweet potato, potato and frozen or canned vegetables

Pulses to be Consumed

All split lentils and legumes

Pulses to be Avoided

Frozen pulses

Dairy Products to be Consumed

Milk without sugar

Dairy Products to be Avoided

Whole milk and cream, butter, full fat yogurt, cheese, condensed milk

Spices to be consumed

Cumin, coriander, turmeric, ginger, pepper, fennel, cinnamon

Drinks to be Consumed

Coconut water, bitter gourd juice, bottle gourd juice, herbal tea, *Amla* juice, *Giloy* juice, *Neem* juice

Drinks to be Avoided

Whole milk drinks, alcohol, cream based liqueurs, carbonated beverages, canned and packaged soup and fruit juices, sugarcane juice

Dry Fruits to be Consumed

Almond, walnuts, pumpkin seeds, chia seeds, flax seeds and sesame seeds

Dry fruits to be Avoided

Pistachio, cashew, raisins and peanuts

Yogasan

Katichakrasan, Trikonasan, Vajrasan, Shashankasan, Pavanmuktasan, Utanpadasan, Anulom Vilom, Bhramri, Kapalbhati

Blood Glucose Chart During Stay in Hospital

Date	FBS	PPBS	RBS
26/06/2022	219mg/dl	308mg/dl	308mg/dl
27/06/2022	211mg/dl	258mg/dl	200mg/dl
28/06/2022	170mg/dl	180mg/dl	167mg/dl
29/06/2022	152mg/dl	142mg/dl	140mg/dl
30/06/2022	106mg/dl	134mg/dl	122mg/dl
01/07/2022	96mg/dl	120mg/dl	122mg/dl
02/07/2022	92mg/dl	118mg/dl	124mg/dl

RESULTS





O/E	1st Follow Up 09/07/2022	2 nd Follow Up 17/07/2022	3 rd Follow Up 24/07/2022	4 th Follow Up 31/07/2022
Vaginal Mucosa Congested	70%	40%	10%	04%
Excoriations	Present over labia majora	Mildly present over labia majora	Absent	Absent
Cervix	Hypertrophied, regular, milky white discharge present +++	Mildly hypertrophied, regular, milky white discharge present ++	Mildly hypertrophied, regular, milky white discharge present +	Mildly hypertrophied, regular, mild mucoid Discharge present

Gradations of Parameters at Follow Up

S.No.	Assessment criteria	First follow up	Second follow up	Third follow up	Fourth follow up
1.	Shweta Strava	3	2 2	1	1
2.	Katishula	23	2 77	2	1
3.	Yoni Kandu	3	2,	1	0
4.	Yoni Daha	3 4072	1012	1	0
5.	Daurgandhya	3	2	1	0

DISCUSSION

At every follow up, we observed reduction in symptoms as compared to previous follow up. Patient was treated till the symptoms get completely reduced. She has followed schedule of Yoni Prakshalana, medications and Pathya Apathya properly. On gynecological examination, her vaginal mucosa congested, excoriations present over labia majora hypertrophied cervix associated with milky white discharge. In this case Shweta Pradara was the *Updrava* of *Madhumeha*, thus line of treatment was planned to control her sugar level by supplementing Ayurvedic drugs along with allopathic medicine for Type II Diabetes Mellitus and treated her with Yoni Prakshalana with Triphala Kwath followed by Cutis ointment tamponing per vagina for 14 days and only cutis ointment tamponing for next 14 days for 3-4 hrs along with Shaman Chikitsa. Patient was followed up regularly and relief in symptoms was recorded on every follow up.

Treatment of this patient was based on etiopathogenesis. *Kapha* is main *Samprapti Ghataka* in *Shweta Pradara*. Along with *Kapha*, there is *Rasa*

Dhatwagnimandya and vitiation of Apana Vayu. Triphla drugs has astringent property, Kapha Shamaka, Stambhaka, Kashaya Rasatmaka, antiseptic and Vrana Ropana (wound healing) and also help in increasing local cell immunity and prevent recurrence of symptoms in patients.

Triphala^[6] is Kashaya Rasa Pradhan and has Stambhan property. It is broad spectrum antimicrobial, antioxidants, anti-inflammatory[7], anti-viral, antibacterial and anti-fungal in nature. It fastens the healing process.[8] Whereas Cutis ointment helps in eradication of fungal and bacterial infections effectively. It is non-steroidal and has broad spectrum activity and also relieves itching and provides the cooling effect. We cannot achieve relief of vaginal symptoms of diabetic patient unless we get better glycemic control. Because enhanced acidic medium of vagina in diabetic patients becomes the flourishing ground for Candida infections. That was the reason; attaining normal blood glucose level in this patient was foremost requirement to combat vaginal infections. Despite already taking Allopathic drugs regularly due

to her faulty diet and lifestyle, her blood glucose levels remained high. To control blood glucose level. we prescribed certain Ayurvedic medications, diet chart, *Yogasana* to her along with Allopathic medicine which she was already taking for diabetes. Vijaysar Churan -Vijaysar is Kshaya Tikta, Laghu Ruksh, Katu, Ushna, *Kapha Pittashamak*, anti-diabetic, rejuvenating, urinary astringent and anti-inflammatory and its principle constituents are isoliquiritigenin and liquiritigenin. It reduces the glucose absorption from the GIT and improves the level of insulin and pro insulin. It is effective in beta cell regeneration.^[9,10] Shigru Guggulanti-diabetic properties, antioxidant properties it works by producing an anti-hyperglycemic effect and also increases the production of insulin in the pancreas and also helps to improve the metabolism of carbohydrates and control the blood sugar level within normal limits.[11] *Chandraprabha Vati* – have properties like Tikta, Katu, Kashaya, Lavan Kshar Rasa Pradhan, Laghu, Ruksha, Vishada, Sukshma, Sitoshna, Kaphahara, Jantughna, Mutral, It has multidimensional action and effective for acute and chronic cases. It is broad spectrum antibiotic, tonic for urogenital system. antiinflammatory, immunomodulator. [12,13]

CONCLUSION

Diabetes Mellitus (*Madhumeha*) is a multifactorial silent killer which needs to be treated as early as possible to avoid complications. From the above data it can be concluded that management of *Madhumeha* can be achieved by following proper dietary habits and lifestyle changes.

Better glycaemic control is required in patients of vaginal discharges along with diabetes mellitus to combat vaginal infections.

Personal hygiene and following proper dietary regimens are helpful to prevent *Shweta Pradara*.

The drugs which are having predominance of *Kashaya Rasa, Kapha-Shamak* and *Stambhaka* property should be used in treatment of *Shweta Pradara*.

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*Address for correspondence Dr. Akshita

PG Scholar, Department of Prasuti Tantra Evam Stree Roga, RGGPG Ayurvedic College & Hospital, Paprola.

Email: akshitas215@gmail.com

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