

International Journal of Ayurvedic Medicine, Vol 13 (1), 215-218

Ayurvedic Management of Prameha: A Case Study

Case Report

Sachin Deva^{1*}, Sunil Khandare²

1. Reader & Head, PhD Scholar, 2. Professor, PG & PhD Department of Roga Nidana evum Vikriti Vigyana, Parul Institute of Ayurveda, Parul University, Limda Vadodara, 392760, Gujarat. India.

Abstract

Prameha is becoming a fearsome disease condition in a current scenario. It is known as silent killer in today's society. Prameha is shleshma pradhana tridoshaja vyadhi which is characterised by frequent and turbid urination. It can be divided into three types based on doshik predominance which is also subdivided into further types they are Kaphaja into 10 types, Pittaja into 6 types, Vataja into 4 types which is also Avasthanusara bheda of this vyadhi. Based on the Chikitsa aspect it can be also classified as sthoola pramehi and krusha pramehi. Clinical feature of Prameha vyadhi correlates with Diabetes mellitus. Diabetes Mellitus is Global burden due to its mortality and morbidity. Inappropriate lifestyle and diet pattern is the root cause of diabetes mellitus. Present case study deals with a 67 years old male patient with increased frequency of micturition and excessive hunger, from 6 months with FBS level of 160 mg/dl. Ayurvedic diagnosis of Prameha was made based on pratyatma lakshana and managed with Pramehahara aushadha named Mamejaka ghanavati, with medicine strict diet control and regular exercise was advised up to 30 days. Patient was withdrawn from Tab Metformin 500 once a day with controlled FBS. Maximum improvement was noticed at the end of treatment. In this single case study, an attempt was made to control prameha vyadhi by identifying and avoiding risk factors and following strict diet according to Ayurveda.

Key Words: Prameha, Diabetes Mellitus, Nidana, Mamejava Ghanavati, Exercise.

Introduction

Prameha which is said to be a Santarapanajanya vyadhi (1). Prameha literary means increase quantity of urine with turbidity in it(2). Complete aversion towards physical exercise, Excessive sleeping during day and night, sedentary lifestyle are causative factors for prameha(3). All three dosha are involved in the pathogenesis of prameha but Bahudrava shleshma is predominant in this disease(4). With this 10 dusyas are also present which are Meda, mamsa, shukra, kleda, Shkra, Shonit, Vasa, Majja, Lasika, Rasa, Ojas (5).

Acharya charaka in chikitsasthana have mentioned that sedentary lifestyle, excess sleep, curds, soup of the meat of domesticated and aquatic animals and animals inhabiting marshy land, milk and its preparations, freshly harvested food articles, freshly prepared drinks, preparations of jaggery and all Kapha aggravating factors are responsible for the causation of prameha(6). It is classified into three types kaphaja pittaja and vataja which is subdivided into 10,6,4 respectively(7). Aggravated kapha vitiates medas, mamsa and kleda of the body located in basti (bladder and urinary system) and causes different types

* Corresponding Author:

Sachin Deva

Reader & Head, PhD Scholar, PG & PhD Department of Roga Nidana evum Vikriti Vigyana, Parul Institute of Ayurveda, Parul University, Limda. Vadodara, Guiarat. 392760. India.

Email Id: sachin.deva@paruluniversity.ac.in

of kapha dominant meha. Similarly, pitta aggravated by hot things vitiates those elements and causes different types of pitta, dominant meha. When other two doshas are in a relatively diminished state, the aggravated vata draws tissues elements (viz. ojas, majja and lasika) into the urinary tract and vitiates them to cause vata dominant pramehas.(8) Different doshas having entered the urinary tract in vitiated condition give rise to the respective types of meha with their own dominance.(9)Based on treatment it is classified into sthoola pramehi which is should be treated with apatarpana chikitsa and krusha pramehi which should be treated with santarapana chikitsa.(10)

ISSN No: 0976-5921

Clinical features of prameha correlates with diabetes mellitus. Diabetes mellitus contributes significant burden to the global population as it is leading cause of morbidity and mortality worldwide. It is chronic, metabolic disease characterized by elevated levels of blood glucose which leads to serious damage to the heart, blood vessel, eyes, kidneys, nerves. Most common type observed among all the patients of DM is type 2. (11) Cases and the prevalence of diabetes have been steadily increasing over the past few decades. About 422 million people worldwide have diabetes, majority of them living in low-and middle-income countries and 1.6 million deaths are directly attributed to diabetes each year. (12) According to WHO Diabetes Mellitus is a heterogenous metabolic disorder characterized by a common feature of hyperglycaemia with disturbance of carbohydrate, fat and protein metabolism (13).



Sachin Deva et.al., Ayurvedic Management of Prameha: A Case Study

Case study: PRAMEHA Pradhana Vedana

Patient complains of increase frequency of micturition with excessive hunger, since 6 months.

Vedana Vruttanta

A 67 year old patient diagnosed to have diabetes mellitus since 8 years complains of with increased frequency in micturation during day (7-8 times) and night time (4-5 time) since 6 months consulted physician at Khemdas Ayurved Hospital.

Since 8 years patient was on tab Sugarmet MC 500mg 1-0-0 and wants to take ayurvedic anti-diabetic medications

Purva vedana vruttanta

Patient had suffered from BPH before 10 years and get relieved successfully with exercises

Kula vyadhi Vruttanta

Mother was said to be diabetic

Vvakthika vruttanta

Table No. 1 Table showing Ahara, Vihara and Masika Nidana

Ahara	Vihara	Mansika
Vegetarian	Sleep disturbed	Chintya
Madhur, snigdha,	Sedentary lifestyle	
Irregular meal time	Bowel – 1 time/day	
	Micturition $-6-7$ times in a day and 5-6 times in a night	

Samanya pariksha

- Appearance Fair
- Pulse rate -75/min
- B.P. -130/90 mm hg
- R.R. $17/ \min$
- Weight- 172 cm
- Height- 78 kg
- Temperature Afebrile
- R.S. Bilateral Air entry clear
- C.V.S. S1S2 heard, no abnormal Murmur heard
- C.N.S. conscious and oriented

Rogi Pariksha

• Prakruti: PittaKapha • Sara: Madhyama • Satva: Madhyama

• Samhanana: Madhyama

• Kostha: Krura • Agni: Vishama

• Pramana: Madhyama • Aharashkti: Madhyama • Jaranashakti: Madhyama

• Vyayamashakti: Madhyama • Vaya: Vruddha

• Jihwa: Saama

Ashtavidha pariksha

• Nadi : Vata Kapha

• Mutra: 6-7 times (day), 5-6 times(night)

• Mala: 1 time/day

• Jihwa : Saama • Shabda : Spashta • Sparsha Samshittoshna

• Druka: Prakruta • Akruti : Madhyama

Table No.2 Table Showing Investigations done before

ISSN No: 0976-5921

and after the treatment				
INVESTIGATION	BEFORE TREATMENT DATE- 10/08/21	AFTER TREATMENT DATE- 14/09/21		
HAEMATOLOGICAL				
Hb	13.7 gm%	13.7 gm%		
TC	8700 cu/mm	8700 cu/mm		
DC	68/25/04/03	68/25/04/03		
Platelet count	273000	273000		
RBC	4.57 million/	4.57 million/		
	micro	micro		
Hba ₁ C	7.20	6.80%		
URINE ROUTINE:	BEFORE TREATMENT	AFTER TREATMENT		
PH	6.0	6.0		
Specific Gravity	1.015	1.015		
Blood				
Protein				
UI	RINE MICRO			
Pus	2-4/hpf	2-4/hpf		
Epi	1-2/hpf	1-2/hpf		
RBC				
Cast				
Crystal				
BIOCHEMISTRY	BEFORE TREATMENT	AFTER TREATMENT		
FBS-	160 mg/dl	116 mg/dl		
PP2BS-	200 mg/dl	156 mg/dl		
LIVER FUNCTION TEST	BEFORE TREATMENT	AFTER TREATMENT		
Total Bilirubin	0.9 mg/dl	0.9 mg/dl		
Direct Bilirubin	0.3 mg/dl	0.3 mg/dl		
Indirect Bilirubin	0.60 mg/dl	0.60 mg/dl		
SGPT(ALT)	37 u/l	37u/l		
SGOT	25 u/l	25 u/l		
ALP	86	86		
TOTAL PROTEIN:	BEFORE TREATMENT	AFTER TREATMENT		
Total Protein:	6.80 gm/dl	6.80 gm/dl		
S.Albumin:	4.70 gm/dl	4.70 gm/dl		
S.A/G Ratio	2.24	2.24		
LIPID PROFILE	BEFORE TREATMENT	AFTER TREATMENT		
Total cholesterol (CHO-POD)	171 mg/dl	160 mg/dl		
Triglyceride (GPO- POD)	129.0 mf/dl	117.0 mf/dl		
HDL cholesterol (ENZYMATIC)	51.0 mg/dl	51.0 mg/dl		
VLDL – cholesterol (Immuniinhibition/ Mod.IFCC Method)	25.80 mg/dl	25.80 mg/dl		



International Journal of Ayı		
LDL cholesterol (calculated By Friedwald formula)	94.20 mg/dl	94.20 mg/dl
Cholesterol/HDL Ratio (calculated)	3.35 mg/dl	3.35 mg/dl
LDL/HDL Ratio (Calculated)	1.85 mg/dl	1.85 mg/dl
RENAL FUNCTION	BEFORE	AFTER
TEST	TREATMENT	TREATMENT
S. Creatine	1.20 mg/dl	1.20 mg/dl
Blood urea	14 mg/dl	14mg/dl
THYROID	BEFORE TREATMENT	AFTER TREATMENT
Т3	1.22 ng/dl	1.22 ng/dl
T4	6.756 ug/dl	6.756 ug/dl
TSH	1.170 uIU/mL	1.170 uIU/mL
Cystatin-C	0.9	0.9

Centre of study: Parul Institute of Ayurveda and Research Hospital OPD, Vadodara, Simple random single case study

Subjective criteria

Table No.3 Showing Subjective criteria

8 3			
Symptoms	Before Treatment	After Treatment	
Frequent Urination	6-7 times (day), 5-6 times(night)	4-5 times/day 1-2 times/day	
Excessive Thirstiness	Present	Reduced	
Excessive Hungry	Present	Reduced	
Tiredness	Present	Reduced	

Objective criteria

Table No.4 Showing Objective criteria

Investigations	Before Treatment	After Treatment
FBS	160 mg/dl	116 mg/dl
PP2BS	200 mg/dl	156 mg/dl
HbA_1C	7.20	6.80%

Diagnosis: Prameha Internal Medicine Given

- Mamejaka Ghanavati 2 BD before food with lukewarm water was given for 30 days
- Along with above medicine patient was advised to walk 2 km daily with strict diet.
- With these patients was advised for regular monitoring of Blood Sugar Level
- Patient was advised to avoid the diet and lifestyle related to etiological factors of *Prameha vyadhi*. Proper guidelines of *Ahar Vidhi Vidhan* was adviced like *Prakriti, Karan, Samyoga,Rashi, Desh, Kala*. With this following diet were advised.
 - Grains like Yava(barley), Godhuma(Wheat), Bajara.
 - Pulses Chanaka(Bengal gram), Adhaki(Toor daal), Mudga (Green gram), Kulathha(Horse gram),
 - Vegetables Methika (Fenugreek), Patola Pointed gourd), Karvellaka (Bitter gourd), rasona (Garlic)
 - Fruits- Jambu(Jamun), *Amalaki*(Goose berry), *Dadima* (pomegranate)

- redic Medicine, Vol 13 (1), 215-218
 Oil- Atasi and Sharshapa(Mustard)
 - Spices Maricha, Saidhava(Rock salt), Hingu(asafoetida), Haridra(Turmeric), Ardraka(Ginger)

ISSN No: 0976-5921

Results

Exercise and strict diet was advised to the patient with *Mamejaka Ghanavati*. Before taking Ayurvedic Medicines patient was on Metformin 500 mg OD but as he continued with Ayurvedic Medication patient has been withdrawn from the Modern medicine with controlled blood sugar level.

As patient's symptoms were reduced with controlled blood sugar level without Metformin 500 mg patient was willing to take *Mamjeka Ghanavati* instead of Allopathic Medicine and continue with Ayurvedic treatment. Patient was Insisted for regular follow up to Monitor Blood Sugar level.

Discussion

Prameha Nidana is of two type – Sahaja(Hereditary) and Apathya Nimitaja(Acquired). Apathya nimitaja can be further divided into Aharaja Nidana, and Viharaja Nidana. Aharaja Nidana Includes excess use of new peas, black gram and other pulses prepared in Ghrita, Guda and Ikshu preparation, milk fresh wine and curd preparation, meat soup of different Anupa animals etc. All Aharaja Nidana are Kapha and Medo vardhaka. Vihara excessive sleep, lack of exercise, worry, grief and anxiety are said to be the causative factors of Prameha. (14)

In this case study etiological factor were found to be to be intake of Madhura, Snigdha Ahara, Irregular meal time, Disturb sleep during night, sedentary lifestyle, Chintya. Assessment of etiological factors is first step to prevent the disease from occurring. After the assessment of etiological factors patient was advised to avoid Nidana and take strict diet according to Ayurveda. Diet mainly included avoiding of Madhura, Snigdha Ahara and including fiber rich green vegetables and cereals. Yava (Barley)is high in fiber content and highly recommended in Prameha. Comparatively whole green gram, Bengal gram have more fiber content than green dal and Bengal gram dal. Whole Horse gram dal and Toor dal also have rich fiber content . Fruits, Vegetables and spices are micronutrient rich. Vegetables and fibers reduces diabetes, delay sugar digestion and absorption. (15)

Mamejaka ghanavati

The internal Medicine used in this study is therapeutically indicated in *Prameha*. It has *Tikta Rasa*, *Laghu Guna*, *Ushna Veerya*, *Katu Vipak* and subsides *Kapha* and *Pitta*. *Mamejaka* is said to have anti-diabetic and anti-oxidant property. Medicine contains *Mamejaka* extract (8 Parts), *Mamajaka churna* (2 parts), *Pippali*(Piper longum 2 parts), and *Ativisha*(Aconitum heterophylum, 2 parts). *Mamejaka ghanavati* has explained in *Bheshaja Samhita* under *Gutika* and *Guggulu Kalpa*.(16)



Sachin Deva et.al., Ayurvedic Management of Prameha: A Case Study

Acharya Sushuruta have recommended walking of 100 Yojana in 100 days i.e, 1 Yojana per day. A study reported that a daily brisk walk of 7.5 km for 100 days can reverse Glucose Tolerance test to normal. Lack of exercise may be one of the main factor for causing Prameha thus risk can be reduced by regular exercises. (17)

Conclusion

This study shows successful management of *Prameha* with *Pramehahara Audhadha*, strict diet control and regular exercise. Patient was presented with poor control of type 2 diabetes mellitus with allopathic medicine with FBS level was 160 mg/dl and PP2BS was 200 mg/dl. After prescribing *Pramehara Aushadha*, strict diet and regular walking of 2 km. after one month of treatment sugar level found to be under control. FBS level 116 mg/dl PP2BS 156 mg/dl. So this single case study concludes that *Mamejaka Ghanavati*, strict diet and regular exercise can be effective in the management of *Prameha*.

References

- Vidhyadhara Shukla, Ravidatta Tripathi. Charaka Samhita of Acharya Charaka. Reprint edition. Varanasi; Chaukhambha Sanskrit Pratishthan; 2006.317p
- 2. Waghe. Textbook of Roga Nidana & Vikriti Vigyana; First Edition; Nagpur; Rashtra Gaurav Publication; 2019.204p
- 3. Vidhyadhara Shukla.Ravidatta Tripathi. Charaka Samhita of Acharya Charaka.Reprint edition.Varanasi;Chaukhambha Sanskrit Pratishthan;2006.167p
- 4. Vidhyadhara Shukla.Ravidatta Tripathi. Charaka Samhita of Acharya Charaka.Reprint edition.Varanasi;Chaukhambha Sanskrit Pratishthan;2006.503p
- 5. Vidhyadhara Shukla.Ravidatta Tripathi. Charaka Samhita of Acharya Charaka. Reprint edition, Varanasi; Chaukhambha Sanskrit Pratishthan; 2006.167p

6. Vidhyadhara Shukla.Ravidatta Tripathi. Charaka Samhita of Acharya Charaka.Reprint edition, Varanasi; Chaukhambha Sanskrit Pratishthan; 2006.169p

ISSN No: 0976-5921

- 7. Bramhanand Tripathi.Madhav Nidana of Acharya Madhava.Varanasi;Chaukhambha Surbharati Pratishthana;2011.4p
- 8. Vidhyadhara Shukla.Ravidatta Tripathi. Charaka Samhita of Acharya Charaka. Reprint edition.Varanasi;Chaukhambha Sanskrit Pratishthan;2006.168p
- 9. Bramhanand Tripathi.Madhav Nidana of Acharya Madhava.Varanasi;Chaukhambha Surbharati Pratishthana;2011.4p
- 10. Vidhyadhara Shukla.Ravidatta Tripathi. Charaka Samhita of Acharya Charaka Reprint edition.Varanasi;Chaukhambha Sanskrit Pratishthan;2006.170p
- 11. Harsha Mohan. Textbook of Pathology. 6th edition. New Delhi. Jaypee brother Medical Publisher privet limited; 2010.819p
- 12. https://www.who.int/westernpacific/health-topics/diabetes#1 dated 10-12-2021 time 16:24 IST
- 13. Harsha Mohan. Textbook of Pathology. 6th edition. New Delhi. Jaypee brother Medical Publisher privet limited; 2010.818p
- 14. Vidhyadhara Shukla.Ravidatta Tripathi. Charaka Samhita of Acharya Charaka Reprint edition.Varanasi;Chaukhambha Sanskrit Pratishthan;2006.319p
- 15. https://www.researchgate.net/publication/ 273303484_Diet_and_Lifestyle_Guidlines_for_Dia betes_Evidenece_Based_Ayurvedic_Perspective dated 10-12-2021 time 16:26 IST
- 16. h t t p://www.clinicaltdd.com/ Efficacy_of_Mamajaka_ghanavati_in_the_treatmen t_of_type_2_diabetes_mellitus:a_prospective_open _label_multi-centered_clinical_study_dated 10-12-2021 time 16:38 IST
- 17. https://www.researchgate.net/publication/273303484_Diet_and_Lifestyle_Guidlines_for_Diabetes_Evidenece_Based_Ayurvedic_Perspective dated 10-12-2021 time 16:47 IST.
