

EPRA International Journal of Research and Development (IJRD)

Volume: 8 | Issue: 12 | December 2023 - Peer Reviewed Journal

A SINGLE CASE STUDY ON Madhumeha w.s.r. TO DIABETES MELLITUS (TYPE II)

Dr. Chanchal¹, Dr. Asha Kumari², Dr. O.P Singh³, Dr. Deshraj Singh⁴

¹PG Scholar 3rd Year, PG Department of Kayachikitsa, Rishikul Campus, Haridwar ²PG Scholar 3rd Year, PG Department of Kayachikitsa, Rishikul Campus, Haridwar ³Professor and Head, PG Department of Kayachikitsa, Rishikul Campus, Haridwar ⁴Medical Officer, Pithoragarh

ABSTRACT

Diabetes mellitus, a non- communicable disease commonly that emerges various health issues globally along with huge social and economic consequences. High incidence of diabetes mellitus categorized by the metabolic activity of hyperglycemia those results in imperfection of insulin oozing, insulin exploits or both. Diabetes symptoms are excessive thirst, frequent urination, sweating, blurred vision, sudden weight loss, fatigue and slow healing sores. Chronic hyperglycemic complications are seen in nephropathy, retinopathy, neuropathy, cardiovascular disease, kidney, blood vessels, stroke and death, they can be prevented with appropriate treatment. A 54 years old male patient treated in the OPD of Rishikul Campus, Haridwar from 27th October 2022 with a complain of generalised weakness, weight loss, increase of urination and attraction of ant towards the excreted urine for 7 months. Examination, laboratory investigations and history leads top diabetes mellitus. Ayurvedic drugs which were mentioned in different texts were given to the patient. It shows the effective results in the management of Madhumeha (Diabetes mellitus).

KEYWORDS- Diabetes mellitus, Insulin, Hyperglycemia, Ayurved

INTRODUCTION

Diabetes mellitus is a metabolic disorders where metabolism of carbohydrate remain underused which leads hyperglycemia. The most common symptoms are excessive thirst, frequent urination, sweating, blurred vision, sudden weight loss, fatigue and slow healing sores. It also considered as lifestyle disorders and its prevalence is rising very rapidly in developing countries. Its leads complication like nephropathy, neuropathy or retinopathy. Though there are mainly two types of diabetes – Type 1 and Type 2 but prevalence rate of type 2 diabetes is more. Type 1 diabetes is mainly autoimmune- mediated where absolute insulin deficiency present and its frequency less than type 2 diabetes. Type 2 diabetes is either due to insulin resistance and/or abnormal insulin secretion.

Madhumeha (Prameha)

Ayurvedic remedies for *Madhumeha* (diabetes mellitus are the oldest and are classified as *Prameha*. *Pramehas* are a group of urinary illnesses characterised by excessive urination and many aberrant features caused by *Doshic* imbalances. *Prameha* is caused primarily by a lack of exercise and poor dietary habits. The basic causes of this ailment include excessive food intake in the categories of *Ushna*, *Snigdha* and *Guru*- fish and curd are good examples. The etiological causes for *Prameha* are foods that enhance *Kapha*, *Medhas* and *Mootra*. *Prameha* is derived from the words *Pra* (overflow) and *Meha* (*Ksharane*) (urine passing). *Prameha* is passing turbid urine as a result (*Prabhootha avila mootrata*).

Case Report: A 54 years old male patient was treated in the OPD of Kayachikitsa of Rishikul Campus, Haridwar from 27th October 2022 with a complain of generalised weakness, weight loss, increase of urination and attraction of ant towards the excreted urine since 7 months. There was history of dryness of mouth, palate and throat. He was diagnosed as type 2 DM 2 years back and did not take any medicine and after that he had came to the OPD of Rishikul Campus, Haridwar on 24th October 2022 to take ayurvedic treatment. He was advised to do lab investigations. Then he had done the investigations on 27th October 2022. Apart from this he didn't suffer from other medical problems like HTN, asthma, thyroid disorder etc. Patient was doing private job in a company. There was family history.



EPRA International Journal of Research and Development (IJRD)

Volume: 8 | Issue: 12 | December 2023 - Peer Reviewed Journal

Table 1

General Examination

Height	168cm
Weight	73kg
BP	130/90mmkg
Pulse	82/min
Temperature	98.6
General condition	Not good

Family History

Father- DM

Mother- Not Any

S/E (Systemic examination)

CVS-S1S2 NORMAL

CNS-Conscious Oriented

GIT-Liver, Spleen Not Palpable

Asthtavidha Pariksha

Nadi- 82/min
Mutra- Atipravarti
Mala- Sama
Jihva- Sama
Shabda- Normal
Sparsha- Normal
Drik- Normal
Akriti- Average

Dashvidha Pariksha

Prakriti- Kaphaj Vataj

Vikriti- Vata Kapha and Medodhatu dushti

Sara-Meda Samhanana-Madhyam Madhyam Satmya-Madhyam Satva-Madhyam Pramana-Ahara shakti-Madhyam Vyayama shakti-Madhyam Vaya-Madhyavastha

Investigations (Before Treatment)

- FBS- 140.8 mg/dl
- PPBS- 210 mg/dl
- HBA1C- 7.6%
- Urine examination- In urine examination sugar is present.
- As per ayurveda text the symptoms of Madhumeha are Prabhoota mutrata, Avila mutrata, Shrama etc.

MATERIAL AND METHODS

Sr. No	Name of Drug	Dose of drug	Frequency and Anupana	
1.	<i>Amalaki</i> powder	50gm		
2.	Haridra	10gm		
3.	Vijayasara	50gm	Mix the combination and	
4.	Gurmara	20gm	take 5gm BD with luke	
5.	Methika	20gm	warm water 30min before	
6.	Bilva patra powder	50gm	meal.	



SJIF Impact Factor (2023): 8.574 | ISI I.F. Value: 1.241 | Journal DOI: 10.36713/epra2016 ISSN: 2455-7838(Online)

EPRA International Journal of Research and Development (IJRD)

Volume: 8 | Issue: 12 | December 2023 - Peer Reviewed Journal

Advice-

Pathya (Do's)

- 1. Diet- Old cereals like Shali rice, Shastika rice, Barley, Munga, Kulathi, Arhar, Bitter leafy vegetables (Karela, methi, parvala etc.) Fresh fruits (Jamuna, amla etc)
- 2. Lifestyle- Regular exercise is recommended 4-6 times/ week. Pranayama, yogasana (Bhujangasana, Sarvangasana, Pawanmukta Asana).

Apathya (Don't's)

- 1. Diet-Vinegar, Tusodaka, Sura, Asava, New grains, Oil, milk, ghee, Sugarcane products, Preparation of rice flour, Sour substances, Meat of domestic, Aquatic animals
- 2. Lifestyle- Avoid sitting, Day sleeping, *Dhumpana*, *Swedana*, Controlling natural urges like Mutravega (*Vega Dharana*).

RESULT

Criteria	Before Treatment (27 October 2022)	After Treatment (1 February 2023)
PrabhootaMutrata (Polyuria)	7-8 times a day and 3-4 times at night	3-6 times a day and 1-2 times at night
Shrama (Weakness)	Present	Absent
Mukha kantha shosha	Moderate	Absent
(Dryness of mouth and		
throat)		
FBS	140.8 mg/dl	110.4 mg/dl
PPBS	210 mg/dl	150 mg/dl
HBA1C	7.6%	6.8%

HBA1C Before-



HBA1C After-





SJIF Impact Factor (2023): 8.574 ISI I.F. Value: 1.241 Journal DOI: 10.36713/epra2016 ISSN: 2455-7838(Online)

EPRA International Journal of Research and Development (IJRD)

Volume: 8 | Issue: 12 | December 2023 - Peer Reviewed Journal



DISSCUSSION

Prameha has been described as Anushangi by Acharva Charaka which means a disease that runs for a prolonged course and remains attached forever. In Brihat travi prameha is included under Ashtamahagada which shows dreadfulness of disease. Diabetes mellitus is a long term metabolic disorder with multiple etiological factors, variable clinical manifestations, progression and number of complications. Madhumeha is a Tridoshasaja vyadhi. Basic pathology behind it is Avritta vata and Bahudrava Shlesma. Madhumeha comes under Vataja Prameha. In Ayurvedic texts there is indication of Amalaki, Haridra, Vijayasara, Gurmara, Methika, Bilva natra.

Haridra is mentioned as Pramehanashak in Charak Samhita, its Rasa is Tikta, Virya is Ushna and Vipak is Katu and according to Vagbhatta Haridra is Tridosha shamaka. Haridra powder is very effective with Amalaki and is known to contain terpenoids, cucuminoids, glycosides and flavonoids. Maximal inhibition of the enzyme human pancreatic Amylase (HPA) was obtained with curcuma longa isopropanol extract and it causes reduction in starch hydrolysis which lowered glucose levels. In classical text Amalaki is said as Pramehghna.

The chemical constituents of Vijayasara phenolics, marsupin, pterosupin and pterostilbene have been identified as the blood sugar lowering and antihyperlipidemic components.

Gurmara has gymnemic acids that has been reported to be an effective anti-diabetic agent in lowering blood sugar level in both type 1 and type 2 diabetes.

The main chemical components of methika has been shown to regulate blood sugar levels and increase good cholesterol while lowering total cholesterol.

Bilva patra powder could be be strongly recommended in the daily diet of NIDDM subjects for effective management of diabetes.

CONCLUSION

In this case study it shows that Amalaki Churna, Haridra, Vijayasara, Gurmara, Methika, Bilva patra Churna along with following the rules of pathya and apathya has great role to mitigate diabetes mellitus (type 2) in both subjective and objective parameters.



SJIF Impact Factor (2023): 8.574 | ISI I.F. Value: 1.241 | Journal DOI: 10.36713/epra2016 ISSN: 2455-7838(Online)

EPRA International Journal of Research and Development (IJRD)

Volume: 8 | Issue: 12 | December 2023 - Peer Reviewed Journal

REFERENCES

- Monika Sharma, Pankaj Sharma, A single case study on Madhumeha w.s.r. to Diabetes Mellitus (Type II). J Ayu Int Med Sci. 1. 2022;7(11): 195-200
- Julee Meena, Pramod Kumar Mishra, Indu Sharma, Brahmanand Sharma, Pooja Rani. Diabetes Mellitus- An Ayurvedic Perspective. 2. AYUSHDHARA, 2023;10 (Suppl 4): 18-23.
- 3. 3. Nidhi Aggarwal and Shishu, A Review of recent Investigations on Medicinal Herbs Possessing Anti- Diabetic properties, I Nutrition Disorder Ther 2011, 1:1
- 4.Aarti Sankhla, Shashi Sharma and Nidhi Sharma, Hypoglycemic effect of Bael patra 9Aegle Marmelos) in NIDDM patients, www.arcc journals.com, J.Dairying, Foods & H.S.