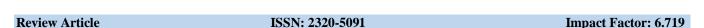


INTERNATIONAL AYURVEDIC MEDICAL JOURNAL







ETIOPATHOGENESIS AND MANAGEMENT OF MADHUMEHA (Type-2 DIABETES MELLITUS)

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https://doi.org/10.46607/iamj1311022023

(Published Online: February 2023)

Open Access

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Article Received: 03/01/2023 - Peer Reviewed: 17/01/2023 - Accepted for Publication: 29/01/2023



ABSTRACT

Ayurveda is an ancient Indian health-care system that has been practiced since the beginning of civilization. Ayurveda gives special importance to preventive and protective aspects of health. The principles of Dinacharya, Ritucharya, Sadvritta, and Achara Rasayana. As well as suggestions for a balanced diet and lifestyle, are well known in Ayurveda, but few individuals are able to fallow them well in the contemporary situation. Diabetes mellitus is the leading case of morbidity and mortality the world over. it is estimated that approximately 1% of the population suffers from DM. The incidence is rising in developed countries of the world at the rate of about 10% per year, especially of type-2 DM, due to rising incidents of obesity and reduced activity levels. Type 2 diabetes mellitus is responsible for about 80% of cases. Madhumeha is one of the types of vataja Prameha in Ayurveda, its etiopathogenesis, clinical symptoms, and prognosis are similar to Diabetes mellitus. Madhumeha is caused by lack of exercise, excessive consumption of food containing Snigdha, and Guru Guna, bad dietary habits, and food that induces Kapha Dosha vitiation. Ayurvedic management principles can help patients regulate their blood glucose levels and change their habits.

Keywords: *Madhumeha*, *vataja Prameha*, *Ayurveda*, Diabetes mellitus

INTRODUCTION

Diabetes mellitus is a group of metabolic diseases in which there are high blood sugar levels over a prolonged period, and it is the world's deadliest silent killer. According to the World health organisation, India has the fastest-growing number of Diabetes Patients. With the growth of population, ageing, urbanization, and increase in absence of physical activity the number of people with Diabetes is increasing, which has a huge impact on social health and economic outcomes, Acharya has mentioned Nidana that which directs or guides the course of the disease, Various Nidana has been explained for the manifestation of various diseases under the category of Aharaja, Viharaja and Manasika Nidana. Acharya Charaka narrated specific Nidana for Madhumeha, Progression of this disease may affect all the 10 Dushyas and lead to *Upadrava* and many features correlate with the disease Type 2 Diabetes mellitus. Madhumeha is one of the Ashta Mahagada. Madhumeha is a variety of Vataja Prameha, which is referred to as a sequel of all varieties of Prameha, the etiological factors end up in the vitiation of Vata kapha Pradhana Tridoshas getting associated with Medas, Ojas, etc Dhatus, reaching the Mootravaha Srotas resulting in illness, the Nidana of Madhumeha are mentioned as samanya and Vishesha Aharaja and Viharaja Bhava Janya Nidana. The Samanaya Aharaja includes Sheeta, Snigdha, Madhura, Madhya and Drava Anupana and Vihara includes Divaswapna. Avyayama and Alasya, is a risk factor of Madhumeha. In the context of treatment choices, the prime importance is given to the Nidana Parivarjana i.e., avoidance of the etiological factors.

AIMS AND OBJECTIVE: To Study Details Etiopathogenesis and Management of *Madhumeha*

METHODOLOGY: Materials pertaining to *Madhumeha* were provided by various newspapers, contemporary Ayurvedic Literature, Research articles, Journals, modern books, Sanskrit Shabdakosha, and internet sources to collect sufficient for study.

MADHUMEHA ETYMOLOGY. The word *Madhumeha* consists of two-word *Madhu* + *Meha* the word *Madhu* is derived from the root '*Manyante Visheshena Janati Jana Yasmin*'. In Sanskrit literature, the *Madhu* word is used in various contents like *Puahapara Makaranadah*, *Makshikam*, *Makshikam*, *Madhura*, *Kshiram*, *Jalam*, *Madhura*, *Kshiram*, *Jalam*, *Madhura*, *Kshiram*, *Jalam*, *Madhura*, and specific etymology is that the disease in which the excretion is has quality concordant with *Madhu* in its colour, taste, and smell. And consistency called *Madhumeha*.

NIRUKTI.

The word is mainly related to excretion through urine. so the definition is the clinical entity in which the patient passes urine similar to *Madhu* i.e of *Kashaya* and *Madhura* taste. *Ruksha* texture and honey-like colour. Body-acquired sweetness called *Madhumeha*.

Acharya Sushruta narrated the term Kshaudrameha in place of Madhumeha. Kshaudra is a subtype and synonym of Madhu (honey), so it undoubtedly resembles Madhumeha, further he asserted that when all the Prameha ill-treated or neglected get converted into Madhumeha.

NIDANA:

Aharaja -- Excessive intake of Guru, Snigdha .Amla. Lavana, Navanna pāna, dadhi, guda vikrita, Shleshma janya ahara, and gramya, anupa audaka Mamsa. Mutra Janak dravya, tikta, katu, kashaya rasa.²

Viharaja – Nidra, Asayasukha, Divaswapna. Swapna sukham, Avyayama.

Manasa - Vishada, Chinta

Anya Nidana; Beeja dosha³

In modern science, also the above factors are mentioned and genetic predisposition of the disease, auto immunity, and psychosomatic effect of the disease is established.

BHEDA:

- 1. Prameha is classified as sahaja (hereditary) or Apatya Nimittaja
- Based on physical appearance classified into Apatarpana janya Prameha (lean diabetic) and Santarpana janya (obese diabetic) ⁴

- 3. Based on *Doshic* involvement, these *Prameha* are classified into twenty categories⁵
- a) Vataja Prameha, there are four types
- 1. Vasameha
- 2. Majjameha
- 3. Hastimeha
- 4. Madhumeha
- b) Pittaja Prameha; there are six types.
- 1. Ksharameha
- 2. Kalameha
- 3. Nilameha
- 4. Lohitmeha
- 5. Manjishtameha
- 6. Haridrameha
- c) Kaphaja Prameha- there are ten types.
- 1. Udakameha
- 2. Ikshuvalikameha
- 3. Sandrameha
- 4. Sandraprasadmeha
- 5. Shuklameha
- 6. Sitameha
- 7. Siktameha
- 8. Sanairmeha
- 9. Alalmeha

PRVA RUPA 7

10. Shukrameha

SAMPRAPTI GHATAKAS⁶

- Dosha vata, pitta, kapha
- Dushya Meda. Kleda, Rakta, Vasa, Majja, Lasika, rasa, and Ojas (chi.ni4/4) and sweda (A.H Ni.10/4)
- Srotas Mootravaha Srotas, Medovaha Srotas
- Srotodusti-Atipravrutti
- Agni Vaishamya of all Agni, or Dhatavagni
- Ama Jatharagnimandya
- *Udbhavasthana kostha*
- Adishtana Basti
- Vyaktasthana Mootravaha Srotas
- Roga marga Madyama
- Swabhava Chirakari (Cha.ni 4/3)

SAMPRAPTI

Due to causative factors, *Dosha* gets imbalanced specifically *kledaka kapha*, *pachaka pitta*, *samana vayu*, and *apana vayu*, that causes *agnimandya* i.e., *Dhatavagni mandya* causes vitiation of all the dushyas mainly *Meda dhatu*, it causes unnecessary excessive body fluid oozed out from all *dhatu s* o the body tries to excrete in the form of urine.⁶

Purvarupa	Ch.	Su.	A.H	Ma.
Keseshu jatileebhava	+	+	_	_
Asya madhurya	+	_	+	+
Karapada daha	+	+	+	+
Karapada suptata	+	_	_	_
Muka thalu kanta shosha	+	_	+	_
Pipasa	+	+	_	+
Alasya	+	_	_	_
Sweda	+	_	+	_
Madhura Mutrata	_	+	+_	_
Kesha naka ativriddhi	+	+	+	_

RUPA

- A) Prabhuta Mutrata
- B) Avila Mutrata
- C) Picchila Mutrata
- C) Atisweda

- D) Dourbalya
- E) Pipasa
- F) Karapada daha
- G) Khsudha adikya

MAIN SYMPTOMS 8

- 1. Body ache
- 2. Polydipsia,
- 3. Polyuria
- 4. Polyphagia,

- 5. Recurrent infections
- 6. Unexplained weight loss
- 7. Delayed healing of the wound and in severe cases drowsiness and coma.

SADHYASADHYATA (PROGNOSIS) 9

Sadhya	Yapya	Asadhya
Kaphaja	Pittaja	Vataja
Obese	Usually not much obese	Asthene (KRUSHA)
Acquired	Acquired	Hereditary
Sadhya	Yapya	Asadhya
Early stage	Acute stage	Advance stage
without complication	with complications	with complication

CHIKISTA9

Madhumeha is experienced differently based on a person's *prakruti*, According to *Ayurveda*. Asiad from medications and diets, the patient was encouraged to live a lifestyle and lead an independent life based on a complete lifestyle change.

- 1) Stholya
- 2) Krusha

1. In Stholya

- Patya and Apatya
- Panchakarma treatments like vamana,
 Virechana, Basti
- Shodana
- Apatarpana
- Langhana
- Vyayama

2. In Krusha

The patients should not expose to excessive *Langhana* or Apatarpana i.e., should not be starved, and focus on treatment should give strengthening resistance and stamina through tonics, diet, medicine, and other measures. Diabetes and obese patients have excessive hunger and thirst, they should be fed a diet on a regular basis.

Drugs 10

1. Haritaki

- 2. Amalaki
- 3. Shilajatu
- 4. Guggulu

Single formulations¹¹

- 1. *Guduchi swarasa* (Tinospora cardifolia) 10-15ml twice a day with honey
- 2. *Amalaki churna* (Emblica officinalis) _ 5 gm twice a day with honey

Kwatha

- 1. Nisha, Amalaki¹²
- 2. Haridra, Kataka, Paaranti mula, Lodhra, Amalaki, Bhadarika, Meharimula, Usira¹³

Avaleha

- 1. Gokshuradyavaleha (Bhavaprakasha)
- 2. Saraleha

DIET

The following diet can be given to the with Diabetes

Cereals: *Yava* can be given diverse meals, such as barley, mantha, odana, and other similar products can be found. Roti is a bread variety. Wheat may also be provided. *Purana shali* is a good choice.

Pulses: *Mudga*, *Chanaka*, and *Kulatta* are some of the pulses that may be consumed.

Vegetables: Bitter vegetables (*Tikta rasa*), such as karela (momordica charantia, in Kannada hagalkayi)

Methi (Trigonella foenum-graecum), *Patola* (Vietnamese luffa,) *Rasona* (Allium sativam linn).

Phalas: *Jambu* (Syzygium cuini – black berry), *Kapitta* (Phyllunthus emblica), *Dhatri* (Amla) (Emblica officinales), etc.

Vyayama

- 1. Gomukhasana
- 2. Salabhasana
- 3. Surya Namaskara
- 4. Pranayama
- 5. Chankraman

DISCUSSION

There are lot many formulations prescribed by Ayurveda Acharyas for the management of Madhumeha. Madhumeha is included under Mootravaha srootovikara because they manifest in Mootravaha Srotas. *Madhumeha* is a subtype of *vataja Prameha*. Diabetes Mellitus can very well take care of by ayurvedic drugs without any hazardous side effects, In the management of Madhumeha such drugs are to be selected which are against Meda and Kleda as well as have the Rasayana effect. Diet is the most important factor in healthy body growth and development, and a poor diet leads to diseases, according to Acharya Charaka, a healthy diet rebuilds broken structures, nourishes the Dhatus, and keeps the body's components in balance.

CONCLUSION

The management of *Madhumeha* is described in classical texts according to the Peculiarities of *Dosha* and *Dushya* etc. Currently, a number of anti-diabetic agents are available to control hyperglycaemia but due to long-term or lifelong applications, their use is restricted because of the risk profile. Therefore, there is a need for satisfactory therapeutic modalities free from side effects. In Ayurveda, several plant-based drugs have been advocated to manage hyperglycemia. The

are many plants showing potential anti-diabetic properties. *Madhumeha* can be avoided if the change is a lifestyle and also to adopt the *Patya ahara Vihara*.

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Source of Support: Nil

Conflict of Interest: None Declared

How to cite this URL: Pooja Rathod & Waheeda Banu: Etiopathogesensis and Management of Madhumeha (Type-2 Diabetes Mellitus). International Ayurvedic Medical Journal {online} 2023 {cited February 2023} Available from: http://www.iamj.in/posts/images/upload/315_319.pdf