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# Role of Panchavata in Diabetic Neuropathy - Conceptual **Review**

# Dr. Neelam Bisht,<sup>1</sup> Dr. Girish KJ,<sup>2</sup> Dr. Vibhu Powar<sup>3</sup>

<sup>1,3</sup>Post Graduate Scholar, <sup>2</sup> Professor, Department of Kayachikitsa, Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, BM Road, Thanniruhalla, Hassan, Karnataka, INDIA.

# ABSTRACT

Neuropathies are the most prevalent complications of diabetes mellitus. It affects more than 50% of chronic diabetics with diverse clinical manifestations. The most common early symptoms include pain and unpleasant sensation of burning and tingling followed by numbness and loss of sensation. All these symptoms are attributed to the dysfunction of the nervous system which is very much similar to dysfunction of Vata Dosha due to Avarana explained in Ayurveda text books viz. Harsha (tingling sensation), Daha (burning sensation), Toda (pricking pain), Suptata (numbness) and other signs. In this review article, an effort has been made to understand the role of five types of Vata Dosha due to Avarana in manifesting the symptoms of diabetic neuropathy.

Key words: Diabetes mellitus, Madhumeha, Upadrava, Diabetic neuropathy, Vata Dosha Avarana.

#### **INTRODUCTION**

Diabetic Neuropathy (DN) is characterized by a progressive loss of nerve fiber function. It is one of the most common complications in diabetics affecting approx 50% of the diabetic population.<sup>[1]</sup> Diabetic neuropathy manifests with a wide variety of sensory, motor and autonomic symptoms. It affects the nerve functions in the body which leads to symptoms like tingling, burning, numbness, paraesthesias, weakness of palms and feet, difficulty in swallowing, speech impairment, urinary incontinence and many other presentations based on type of neuropathy.<sup>[2]</sup> The primary symptoms of DN can be troublesome, but the

#### Address for correspondence:

Dr. Neelam Bisht

Post Graduate Scholar, Department of Kayachikitsa, Sri Dharmasthala Manjunatheshwara College of Ayurveda and Hospital, BM Road, Thanniruhalla, Hassan, Karnataka, INDIA. E-mail: bisht765@gmail.com

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secondary complications like non healing ulcers, cardiac arrhythmias are even more serious and can lead to amputations, fractures and even death. At times, DN remains unnoticed as well as difficult to treat due to its complex etiology, hence its early proper understanding diagnosis and of the pathogenesis is important.

Nervous system in human body initiates the motor and sensory functions and receives stimulations from the external environment. Similarly, Vata Dosha has been described to be responsible for the perception of stimulus as well as responses.

Basic foundation for diabetic neuropathy to occur is the presence of diabetes mellitus itself. Chronicity of the disease along with poor glycemic control ends up in complications like neuropathy. Madhumeha is result of complex interactions of Nidana, Dosha, Dushya and Beeja Dushti.<sup>[4]</sup> Persons having genetic predisposition towards Madhumeha when indulges in excess intake of Madhura, Amla, Guru, Snigdha, Sheeta Pradhana Dravya and activities like Divaswapna, Avyayama, it leads to the Kapha Meda Dushti manifesting the pathogenesis of Madhumeha.<sup>[5]</sup>

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#### **Pathogenesis**

When a *Madhumehi* continues to indulge in taking food with *Guru, Snigdha, Madhura* and *Pichhila* qualities causes *Agnimandya* leading to *Ama* formation.<sup>[6]</sup> Due to this there is improper *Paka* of *Uttarotara Dhatus* leading to *Sama Dhatu Avastha*. It results in *Vata Prakopa* due to *Margavarana* hampering its *Chala Guna* resulting in *Cheshtahani* or *Vimargagamana*. It leads to loss of motor and sensory functions performed by *Vata Dosha*. *Vata* in *Kaphanubandhavtha* shows symptoms like *Supti, Harsha, Shaitya;* whereas in *Pittanubandha Avastha Daha, Toda* are seen.

**Madhumehi**  $\rightarrow$  Guru, Snigdha, Madhura, Pichhila Ahara  $\rightarrow$  Dhatwagnimandya  $\rightarrow$  Ama formation  $\rightarrow$ Improper Paka of Uttarotara Dhatus  $\rightarrow$  Sama Dhatu  $\rightarrow$  Margavarana of Vata leading to Vata Prakopa  $\rightarrow$ Daha, Toda, Suptata, Chestasanga, Harsha  $\rightarrow$  Diabetic Neuropathy.

#### DISCUSSION

A nerve impulse is self originating and propagating, subtle, reaches all the way through and can be assessed by functions like movements, secretions etc. Vata too is said to be Asamahata (incorporeal), Anavasthita (unstable) and Anasadhya (inaccessible) and difficult to perceive but its functions can be inferred. Vata being itself as Avyakta is responsible for all Cheshta and Indrivapravrittis especially for the sense of touch by its Karma. Gati is the most cardinal / core feature of Vata related with neurological functions. Panchavata governs the enthusiasm, respiration, motor and reflex activities, regulation of circulation as well as all functions of sense organs. Functions affected in DN like speech impairment, difficulty in swallowing, reduced touch sense, urinary incontinence, etc. are said to be Karmas of Panchavata explained in the texts. When Panchavata gets vitiated due to various reasons weather Dhatukshaya or Avarana, its normal Karmas gets hampered and manifests the symptoms like Daha (burning), Toda (pricking), Harsha (tingling), Supti (numbness) as explained in Table 1.

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#### Table 1: Showing types of Vata and its Karma

SN	Types of Vata	Karma	Features of DN <sup>[12]</sup>
1.	Prana Vata	Annapravesha (deglutination) Hridaya Dharana <sup>[7]</sup>	Autonomic neuropathy - Oesophageal dysfunction Tachycardia, orthostatic hypotension
2.	Udana Vata	Bala (strength) Vakapravriti <sup>[8]</sup>	Proximal motor neuropathy - Muscle weakness Autonomic neuropathy - Speech impairement
3.	Vyana Vata	<i>Gati Prasarana -</i> <i>Aakunchana</i> <sup>[9]</sup> (movements)	Proximal motor neuropathy - Gait disturbances
4.	Samana Vata	Agnibalaprada (Digestive functions) Swedadoshaambu Vahini <sup>[10]</sup>	Autonomic neuropathy - Constipation, Diarrhoea Anhidrosis, Hyperhidrosis
5.	Apana Vata	Shukramutra Shakranti <sup>[11]</sup>	Autonomic neuropathy - Erectile dysfunction, Impotence, Incontinence, urinary retention, urgency.

#### Table 2: Showing types of Avarana and its Lakshana.

SN	Types of <i>Avarana</i>	Lakshana	Feature of DN <sup>[12]</sup>
1.	Kaphavrita Vyana (ch.chi.28/2 29) su.ni.1/39	Cheshtasanga <sup>[13]</sup>	Proximal motor neuropathy (muscular weakness)
2.	Vyanavrita	Swapa <sup>[14]</sup>	Sensorimotor

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	Prana (ch.chi.28/2 04) <i>Twakagata</i> <i>Vata</i> (su.ni 1/25)	(Numbness)	neuropathy
3.	Pittavrita Vyana (ch.chi28) Pittavrita Samana (ch.chi.28) Pittavrita Prana (su.ni.1/34)	Daha <sup>[15]</sup>	Sensorimotor neuropathy - burning/ stabbing in soles,feet
4.	Asthiavrita Vata (ch.chi 28/ Twakagata Vata (su.ni 1/25) Shonitavrit a Vata (su.ni1/33)	Suchibhiriva Nistoda <sup>[16]</sup>	Sensorimotor neuropathy - paraesthesias
5.	Twakagata Vata (su.ni 1/25) Mamsavrit a Vata (ch.chi 28)	Chumchumayana <sup>[</sup> <sup>17]</sup> Pipilika- sancharana <sup>[18]</sup>	Sensorimotor neuropathy - tingling

# CONCLUSION

Diabetic Neuropathy itself is having a complex etiology and varied clinical manifestation. As direct references are not available in Ayurvedic literature for Diabetic neuropathy, it can be analyzed on the basis of *Dosha Dushya* involvement resulting in *Samprapti* and symptoms. Functions of *Vata Dosha* exhibits similarity to those of nerves and vitiation of it leads in manifestation of symptoms like in Diabetic Neuropathy. So, *Vata* in *Kevalavastha* or in *Avarana* and *Anubandhavastha* acts as a prime factor in manifestation of symptoms similar to Diabetic Neuropathy.

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