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Review Article

A CONCEPTUAL STUDY ON VATARAKTA W.S.R. TO GOUTY ARTHRITIS

Akansha Singh^{1*}, Shivani Mahajan², Amit Tiwari³, Ketan Mahajan⁴

*1MD Scholar, ²Professor, ³Assistant Professor, ⁴Professor and Head of Department, Dept. of Panchakarma, Patanjali Bhartiya Ayurvigyan Evum Anusandhan Sansthan, Haridwar, India.

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ABSTRACT

The wellbeing of an individual depends on his/her diet and lifestyle. The rapid development and modernisation in India are causing serious health problems and *Vatarakta* is one of them. Vatarakta, is described under Vatavyadhis by different Acharya's. The vitiated Vata and Rakta causes this disease, hence called Vatarakta. Gout is an inflammatory disease caused by deposition of Mono-Sodium Urate (MSU) crystals in and around synovial joints. Recent reports of prevalence and incidence of gout vary widely but ranges from prevalence of 1-2%, with greater than 5:1 male preponderance. It is imperative to comprehend complexities of Vatarakta in order to accurately diagnose and treat it, considering its increasing occurrence worldwide and the substantial influence, it has affected individuals' quality of life. **Methods:** After a thorough literary review, focusing on classical Ayurvedic texts, alongside recent research articles and reviews. The gathered information was analysed to present cohesive narrative on the Niadana, Samprapti and Chikitsa of Vatarakta. Results: Vatarakta is a result of aggravated Vata Dosha and impaired Rakta Dhatu, leading to severe pain, inflammation, and joints deformity. The disease progression is influenced by dietary habits, lifestyle factors, and genetic predisposition. Its treatment involves a multi-factorial approach, including Shodhana, Shamana, dietary regulations, and lifestyle modification. Conclusion: The Ayurvedic perspective on *Vatarakta* offers a holistic approach in understanding and managing the disease, emphasizing the balance of bodily Doshas, detoxification, and rejuvenation. Integrating Ayurvedic principles with modern medical practices may provide a comprehensive treatment for Vatarakta.

INTRODUCTION

The term *Vatarakta* is made up of two words i.e., *Vata* and *Rakta*. It is one of the important diseases adequately described in Ayurvedic classical literature. It is a disease having *Sandhishoola* as one of the important symptoms. *Vatarakta* is disorder in which pain is a predominant symptom which effects day to day life of patients.

Acharya Sushruta mentioned that this disease can start from *Pada Moola* (feet) and sometimes it can also start from *Kara Moola* (hands) [1].



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Due to the fluidity, mobility, and subtle nature of *Vata* and *Rakta* it moves all over body similar to *Akhuvisha* that is rat poison. The classical symptoms of *Vatarakta* are *Arti, Akunchna, Ayama, Beda, Gourava, Kandu, Suptata, Khanjatwa, Pangutwa, Shyavata, Tamra Twak Vivarnta, Daha, Toda, Sphurana* and *Paka* are mentioned by *Acharya* [2]. A lot of references along with description of this disease are available in classical text under the name of *Vatarakta, Adhyavata, Vatabalasaka* and *Khuddavata*[3].

While historically described in Ayurvedic texts, *Vatarakta* shares striking similarities with gout, a form of inflammatory arthritis recognized in modern medicine. Gout is a quaint presentation of uric acid disturbance. Acute gouty arthritis, critical phase, chronic tophaceous gout, and asymptomatic hyperuricemia comprise the clinical picture of gout. Gouty arthritis in modern medicine is primarily attributed to the elevated levels of serum uric acid,

resulting from the overproduction or decreased excretion of urate. Radiological and laboratory features are used to make the diagnosis. Sedentary lifestyle along with psychological stress, consumption of nonvegetarian diet, excessive alcohol intake is some of the precipitating factors which cause acute aggravation of Gout. People with Gout usually wake up with severe pain in the early morning, which is often described as the "worst pain" ever^[4]. Gout is a heterogenous disorder that result in the deposition of uric acid salts and crystals around joints and soft tissue.

AIM AND OBJECTIVES

- 1. To understand *Vatarakta* in detail in comparison to gouty arthritis of joints.
- 2. To understand the pathophysiology and symptomatology of *Vatarakta*.
- 3. To have knowledge for diagnostic criteria of *Vatarakta* according to Ayurveda as well as modern perspective.
- 4. To understand treatment and its efficacy in *Vatarakta*.

MATERIALS AND METHOD

In this study information collected from the available Ayurvedic *Samhitas* and few elementary text books, published research papers, previous work done and related research works were searched to get comprehensive knowledge about the disease *Vatarakta* as well its line of management.

Nirukti of Vatarakta [5]

- Vata Dushita Rakta Avastha: Rakta which is vitiated by Vata is derived as Vatarakta.
- Rakta Pradana Vata Roga Avastha: It is a disease of Vata where Rakta is predominant.

Definition [6]

वायुर्विवृद्धो वृद्धेन रक्तेनावारितः पथि । कृत्स्रं सन्दूषयेद्रक्तं तज्ज्ञेयं वातशोणितम् । खुडं वातबलासाख्यमावातं च नामभिः॥

Vitiated *Vayu* obstructs the path of vitiated *Rakta* in the beginning and then vitiates the *Rakta* further, this complete process is called as *Vatarakta*. Vitiated *Vata* and vitiated *Rakta* causes this disease.

Synonyms [7]

- Vatashonita
- *Adhyavata:* Means which affects the rich people.
- *Khudam: Khanja* (lameness)
- *Kudhavata*: Commonly seen in smaller joints.
- *Vatabalasa*: Where *Vata* is predominant.

Nidana (Etiology) [8]

The healthy state of the human body is maintained by the normal equilibrium of *Tridosha*. Any alteration in this equilibrium results in the vitiation of *Dosha*, which in turn causes the onset of disease. *Vata* and *Rakta* are the specific *Dosha* and *Dushya*

associated with *Vatarakta*. Different *Nidana* of *Vatarakta* have been mentioned in Ayurvedic texts and can be classified into following groups:

- 1. Aharaja Nidana- Causes related to food habits.
- 2. *Viharaja Nidana* Causes associated with personal behaviours and elements in the surrounding environment.
- 3. *Mansika Nidana* Causes related to psychological factors.
- 4. Agantuja Nidana- Extrinsic factors.

1. Aharaja Nidana

- Excessive intake of diet consisting of Lavana, Amla, Katu Rasa and Snigdha, Ushna, Klinna, Ruksha, Ushna, Vidahi and Kshara in quality.
- Intake of flesh of aquatic and marshy land inhabiting animals.
- Excessive intake of oil-cake preparations and uncooked food.
- Excessive intake of Kulatha (Macrotyloma uniflorum), Masha (Vigna mungo), Nishpav (Dichous lablab), other (leguminous) vegetables, Pinyak (Sesamum Indicum) and Ikshu (Saccharum officinarum).
- Excessive intake of *Dadhi, Aranala* (*Kanji*), *Sauvirak* (fermented drinks), *Sukta* (vinegar), *Takra* (butter milk), *Sura* and *Asava*.

2. Viharaja Nidana

- Virudha Adhyasana, Krodha, Divaswapan, Ratrijagran, Abhighata
- Achankramansheelta, riding on elephant, horse and camel.
- Excessive *Plavana*, and *Maithuna*.

3. Mansik Nidana

Krodha, Achinta and Harshanityatva.

4. Prakruti based Nidana

The individuals who are *Sukumaar*, *Atisthula* and consuming unwholesome diet are mainly affected. Overweight person also surrenders the exercise schedule so chances of getting *Kaphameda dushti* are increased. *Kaphamedasdushti* further add up to the etiology of this disease.

Purvarupa of Vatarakta [9]

The different *Purva Rupa* in *Vatarakta* in view of different *Acharya's* are mentioned below:

- Atisweda/Asweda Hydrosis/anhidrosis
- Karshnyata- Blackish discoloration
- Sparshgnatwa- Parasthesia
- Kshate Atiruk- Increased pain on touch
- Sandhi Shaithilya- Looseness of joints
- Alasya- Laziness
- Sadana Fatigue of the foot
- *Pidakodgama* Formation of papules

- Nisthoda- Fatigue
- *Spurana* Throbbing sensation
- Bhedana Splitting type of pain
- Gurutwa- Heaviness
- Supti Numbness
- *Kandu* Itching
- *Sandi Ruk* Pain in joints
- Vaivarnya- Discoloration
- *Mandalotpatti* Formation of rounded patches

- Sheetalata- Coldness of the limbs
- *Osha* Burning sensation with restlessness
- Daha Burning sensation
- Sopha Swelling
- Twak Parushya- Roughness of the skin
- Sakti Daurbalya- Decreased strength in thigh
- Sira Dhamani Spandana- Increased pulsatile vessels
- Shrama- Increased exertion
- Ati Slakshna Khara Sparsha- Hard on touch

Purvarupa	C.S	S.S	A.H	A.S	M.N.	G.NI.	B.P.	Y.R.
Atisweda	+	-	+	+	+	+	+	+
Asweda	+	-	+	+	+	+	+	+
Karshnym	+	-	-	-	+	+	+	+
Sparshgnata	+	-	-	-	+	+	+	+
Kshate ati ruk	++	-	-	-	+	+	+	+
Sandhi shaithilya	+	+	+	+	+	+	+	+
Alasyam	+	-	-	-	+	+	+	+
Sadanam	+	-	+	+	+	+	+	+
Pidakodgama	+	-	-	-	+	+	+	+
Nistoda	+	+	+	+	+	+	+	+
Spurana	+	-500	+	+	+	+	+	+
Bheda	+	8	+	+	+	+	+	+
Gourava	+	+ 6	* +	+	+	+	+	+
Supti	+	+ 74	8 +	+	+	+	+	+
Kandu	+	A Art	+ 1	+)	+	+	+	+
Sandhi ruk	+		7 7 6	3/2	+	+	+	+
Vaivarnya	+	+	SHDHAR	+	+	+	+	+
Mandalotpatti	-	+	+-	+	+	+	+	+
Sheetalata	-	+	-	-	-	-	-	-
Osha	-	+	-	-	-	-	ı	-
Daha	-	+	+	+	+	+	+	+
Shopha	-	+	-	-	-	-	1	-
Twak parushya	-	+	-	-	-	-	1	-
Sira dhamani spandana	-	+	-	-	-	-	-	-
Sakti dourbalya	-	+	-	-	-	-	-	-
Ati slakshna sparsha	-	-	+	+	+	-	+	+
Khara sparsha	-	-	+	+	+	-	+	+
Shrama	-	-	+	+	+	-	-	-
Vrana adika sula	-	-	+	+	+	-	-	-
Vrana chira sthiti	-	-	+	+	+	-	-	-
Vrana rudhana	-	-	+	+	+	-	-	-
Roma harsha	-	-	+	+	+	-	-	-
Asrija kshaya	-	-	+	+	+	-	-	-

Site of Vatarakta[10]

तस्य त्थानम करीपादावअंगुल्यः सर्वसन्ध्यः । कृत्वाअदौ हस्तपादौ तु मूलम देहे विधवति ॥

It starts from hand, feet, finger, and manifest symptoms there, then spread in all joints. But at first it

confirms its root in hands and feet and then spread all over body.

पादयोर्मूलमास्थाय कदाचिद्धस्तयोरपि । आखोर्विषमिव कुद्धं तद्देहमनुसर्पति ।। (सु.नि=1/48)

The disease *Vatarakta* creeps in either from the lower extremities, or in some cases first affects the upper ones and gradually spread all over the body like a rat poison.

Classification [11]

According to various *Acharya's, Vatarakta* have been categorized into two groups:

- 1. According to preponderance of *Dosha*
- 2. According to site of origin (or pathogenesis)

According to Doshika variation

According to *Doshika* variation *Acharya Charaka* has classified the disease *Vatarakta* in categories.

- 1. Vata Pradhana Vatarakta
- 2. Pitta Pradhana Vatarakta
- 3. Kapha Pradhana Vatarakta
- 4. Rakta Pradhana Vatarakta

- 5. Dvandaj Vatarakta
- 6. Sannipataj Vatarakta

Acharya Sushruta, Vagbhatta, Madhavakara, Bhava Mishra, Sharangdhara have also described these varieties in their respective Samhitas.

According to Site of Origin

According to site of origin Acharya Charaka, Vagabhatta, Chakrapani, Yogratnakara have further classified Vatarakta as Uttana Vatarakta and Gambheer Vatarakta. Inspite of these one more variety of Vatarakta i.e., Ubhaya Vatarakta has been described by Acharya Charaka.

According to *Acharya Sushruta*, he described *Uttana* and *Gambhira Vatarakta* only on the basis of chronicity. In the first stage of *Vatarakta* it will be *Uttana* and as time passes it develops into *Gambhira Vatarakta*. It is clearly understood that *Sushruta Samhita* has classified them as *Avastha Vishesha* rather than the type of *Vatarakta*. Thus, *Acharya Sushruta* disapproves the classification based on the pathogenesis.

	Type of Vatarakta	CS	SS	AS	AH	MN	CD	BP	VS	YR
Α	According to Doshas									
1.	Vata pradhana Vatarakta	+	+	+	+	+	+	+	+	+
2.	Pitta pradhana Vatarakta	<i>3</i> 4	#	+	+	+	+	+	+	+
3.	Kapha pradhana Vatarakta	+	日春	1	+	+	+	+	+	+
4.	Rakta pradhana Vatarakta	+50	+	+	+	+	+	+	+	+
5.	Dvandaj pradhana Vatarakta	+	1	44	+	+	+	+	+	+
6.	Sannipataj Vatarakta	1+71	+	. d	7 +	+	+	+	+	+
В	According to site of origin	1	SHDF	A						
1.	Uttana Vatarakta	+		+	+	+	+	-	-	-
2.	Gambhira Vatarakta	+	-	+	+	+	+	-	-	-
3.	Ubhayaj Vatarakta	+	-	+	+	+	+	-	-	-

Rupa/Clinical Features [12]

The manifestation of *Pratyatma Lakshanas* of the *Vyadhi* is called *Roopa*. It has got different synonyms like *Linga, Akruti, Lakshana, Samsthana* and *Vyanjana*. All these give the same meaning with slight differences.

Symptoms according to predominance of Doshas

Vatadhika Vatarakta

Rupa	CS	SS	AS	AH	MN	BP	YR
Sirayama	+	-	-	-	-	+	-
Shula	+	-	+	+	+	+	-
Spurana	+	-	+	+	+	+	-
Toda	+	-	+	+	+	+	-
Shothasyakarshnyam	+	-	+	+	+	+	-
Shothsya rukshya	+	-	+	+	+	+	-
Shothsya shyavata	+	-	+	+	+	+	-
Shotha vriddhi	+	-	+	+	+	+	-
Sandhisankocha	+	-	+	+	+	+	-

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Dhamni anguli sandhi sankocha	+	-	+	+	+	+	-
Angagraha	+	-	+	+	+	+	-
Atiruka	+	-	+	+	+	+	-
Stambhana	+	-	+	+	+	+	-
Sheeta pradvesh	+	-	+	+	+	+	-
Sparshodwigna	-	+	-	-	-	-	+
Kunchana	+	-	-	-	-	+	-
Bheda	-	+	+	+	+	-	+
Prashosha	-	+	-	-	-	-	+
Swapa	-	+	+	+	+	-	+
Sheetanupashaya	-	-	+	+	+	-	-
Vepathu	-	-	+	+	+	-	-

Pittadhika Vatarakta

Rupa	CS	SS	AS	AH	MN	BP	YR
Vidaha	+	-	+	+	+	+	-
Vedana	+	-	+	+	+	+	-
Murcha	+	-	+	+	+	+	-
Sweda	+	-	+	+	+	+	-
Trishna	+	-	+	+	+	+	-
Mada	+	10000	+	+	+	+	-
Bhrama	+ /	-	+	+	+	+	-
Paka	+	(A) 5	+	+	+	+	-
Raga	÷	+	+	+	+	+	-
Bheda	+		6	-	-	-	-
Shosh	+	275		<i>Ş</i> -	-	-	-
Ugradaha	- /	ALT CH	ARA	<i>y</i> -	-	-	+
Ati ushnatwam	-	+	+	+	+	+	+
Shophasya mrudutwa	-	+	-	-	-	-	+
Sammoha	-	-	+	+	+	+	-
Sparsh akshamtwa	-	-	+	+	+	+	-

Kaphadhika Vatrakta

Rupa	CS	SS	AS	AH	MN	BP	YR
Staimithya	+	-	+	+	+	+	-
Gourava	+	-	+	+	+	+	-
Snehtwa	+	-	+	+	+	+	-
Supti	+	-	+	+	+	+	-
Mandaruja	+	-	+	+	+	+	-
Kandu	-	+	+	+	+	+	+
Swetata	-	+	-	-	-	-	+
Sheetata	-	+	+	+	+	+	+
Sopha	-	+	-	-	-	-	+
Peenatwa	-	+	-	-	-	-	+
Stabdhatwa	-	+	-	-	-	-	+

Raktadhika Vatarakta

Rupa	CS	SS	AS	AH	MN	BP	YR
Shotha	+	-	+	+	+	+	+
Atiruk	+	-	+	+	+	+	+
Toda	+	-	+	+	+	+	+
Tamra varna	+	-	+	+	+	+	+
Chimchimayana	+	-	+	+	+	+	+
Snighdharuksha shamanati	+	-	+	+	+	+	+
Kandu	-	-	+	+	-	-	-
Kleda	-	-	+	+	-	-	-

Symptoms according to origin of site:

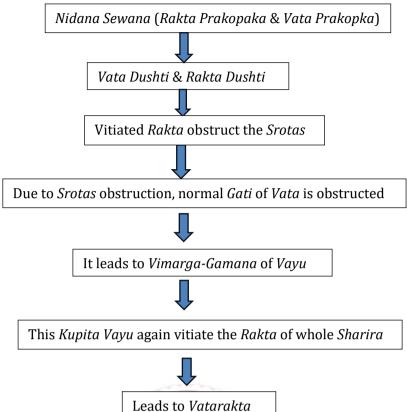
Uttana Vatarakta (superficial type)

Rupa	CS	SS	AS	AH	MN	BP	YR
Kandu	+	-	+	+	-	+	+
Daha	+	-	+	+	-	+	+
Ruja	+	-	-	-	-	-	-
Ayama	+	-	+	+	-	+	+
Toda	+	-	+	+	-	+	+
Sphurana	+	-	+	+	-	+	+
Kunchana	+	-	-	-	-	-	-
Shyavarakta twak	+	-	+	+	-	+	+
Bheda	-	55	+	+	-	+	+
Gourava	-		+	+	-	+	+
Suptata	- }	T CENT	\$ + M	+	-	+	+

Gambhira Vatarakta (deep type)

Rupa	CS	SS	AS	AH	MN	BP	YR
Shvayathu stabdhata	+ 4	-	QP.	-	-	+	-
Svayathu kathinya	+	OSHDH	A.	-	-	+	-
Bhrisharthi	+	-	-	-	-	+	-
Shyavata	+	-	-	-	-	+	-
Tamra twak	+	-	-	-	-	+	-
Daha	+	-	-	-	-	+	-
Toda	+	-	+	+	-	+	+
Sphurana	+	-	-	+	+	+	-
Paka	+	-	-	-	-	+	-
Ruja	+	-	-	-	-	+	-
Vidaha	+	-	+	+	-	+	+
Vatasya sandhiasthimajjasu	+	-	-	-	-	+	+
Khanjatwa	+	-	+	+	-	+	+
Pangutva	+	-	+	+	-	+	+
Adhika parvaruk	-	-	+	+	-	-	-
Svayathu gratithata	-	-	+	+	-	-	-
Vatasya sarva sharira charana	+	-	+	+	-	-	-
Angasya vakrikarana	+	-	+	+	-	-	+

Samprapti of Vatarakta [13]



Samprapti Ghatak [14]

Dosha: Vata Pradhana Tridosha Vata: Vyana vata and Samana vata

Kapha: Shleshaka

Dooshya: Twak, Rakta, Mamsa, Meda, Asthi, Majja

Upadhatu: Sira, Snayu, Kandara

Vyadhimarga: Bahya and Madhyama rogamarga

Pitta: Bhrajaka Pitta

Mala: Sweda

Srotas: Rasavaha, Raktavaha, Mamsavaha, Medavaha,

Asthivaha, Majjavaha, Svedavaha

Srotodusti: Sanga

Udbhavasthana: Pakvashaya Sancharasthana: Sarva sharira

Sadhya-Asadhyata [15]

एकदोषानुगं साध्यं नवंए याप्यं द्विदोषजम् । त्रिदोषजमसाध्यं स्याद्यस्य च स्युरुपद्रवाः ॥

- Ekadosha, nava Sadhya
- Dwidoshaja Yapya
- Tridoshaja, Upadravayuktha Asadhya

Chikitsa Sutra (Line of Treatment) [16]

General Treatment

विरेच्यः स्नेहिय्ताऽऽदौ स्नेहयुक्तैविरेचनैः। रूक्षैर्वा मृदुभिः

शस्तमसकृद्वस्तिकर्म च ॥

सेकाभ्यङ्गप्रदेहान्नस्नेहाः प्रायोऽविदाहिनः । वातरक्ते प्रशस्यन्त...॥

Following adequate oleation. a patient suffering from Vatarakta should undergo mild purgation using either unctuous substances or dry substances (if the patient has been excessively oleated). Subsequent to purgation, it is recommended that the patient receives regular Basti treatments, which involve administering medicated substances through enemas, specifically Anuvasana (unctuous enema) and Niruha Basti (enema prepared from a decoction of medicinal herbs). In addition to fomentation, massage, and the application of ointments, the patient should be provided with appropriate food and Sneha (unctuous substances) that do not induce a burning sensation.

Specific Treatment

विशेषं तु निबोध मे ॥ बाह्यमालेपनाभ्यङ्गपरिषेकोपनाहनैः । विरेकास्थापनस्नेहपानैर्गम्भीरमाचरेत्॥

Uttana vatarakta	Gambheera vatarakta
Pralepa	Vireka
Abhaynga	Asthapana
Parisheka	Snehapana
Avagaha	

Treatment According to *Doshas* Predominance

• Vata Pradhan Vatarakta: In this Chaturvidha Sneha (Ghrita, Tail, Vasa and Majja) should be

administered in the form of *Snehapana*, *Upnaha* and *Abhyanga*. The same should be used for *Basti*.

- Rakta and Pitta Pradhan Vatarakta: In such a condition Sarpi Pana, Ksheer Pana and Mridu Sneha Virechana should be administered. Parisheka with decoction (Kashaya) of Pitta Shamaka Dravyas and frequent Anuvasan Basti should be given. Sheetala Pralepa is also advised by Acharya Charaka in this condition. In Rakta Pradhana Vatarakta repeated Raktmokshana should be done advised by Acharya Sushruta.[17]
- Kapha Pradhan Vatarakta: In this, Mridu Vamana is an ideal treatment. Snehana, Swedana like Parishekh with Kaphahara Kashaya and Langhana should be used as per Doshas. Lukewarm Pralepa may be helpful. Too cold or too hot Pralepas must not be applied.

Pathya - Apathya Pathya

- Intake of *Puranayava, Godhuma, Nivara, Shastika Shali.*
- Mamsa Rasa of Vishkira, Pratuda animals.
- Vegetable of Sunishannaka fried with ghee and meat soup in milk.
- Intake of Gavya, Mahisha and Ajakshira.
- Utilization of poultice, *Parisheka, Pradeha*, avoiding spaces with direct airflow. Implementation of *Sukha Shayana* and gentle rubbing (*Abhyanga*).

Apthya

- Diwaswapna, exposure to high temperatures, physical activity, sexual intercourse, consumption of spicy, warm, rich, obstructive salty, and acidic foods.
- Krodha, Santapa, Divaswapna, Vyayama, Maithuna is prohibited.
- Foods, which are hot in potency. Foods, which creates more moisture in body and difficult for digestion like *Guru*, *Abhishyandi Ahara*, *Dadhi* etc.

Following Are Few *Shamana* Drugs Mainly Used in Treating *Vatarakta*

Haritaki – With Guduchi Kwatha mainly in Ajanusputitha Vatarakta.

Guduchi – In the form of Swarasa, Kalka, Churna or Kwatha for a long time

Aragwadha - With Eranda Taila

Ashwattha - Twak Kwatha with Madhu.

Trivrit - With Vidari and Gokshura Kashava

Suddha Shilajatu – One *Masha Pramana* with *Guduchi*.

Purana Guda – With one *Tola* of *Gosarpi* (cow's ghee).

DISCUSSION AND CONCLUSION

Vatarakta remains a significant health burden worldwide, affecting millions of individuals and

imposing substantial economic and social costs. According to Ayurvedic texts, *Vata* is most significant among Tridosha due to its distinguishing features. And Rakta being the important body tissue which gives *Jeevanam* [18] to person and furthermore, it is crucial to acknowledge that it also assumes a significant function in upholding an individual's overall well-being and vitality. Vatarakta is extensively discussed in various Ayurvedic texts such as Brihatrayi and Laghutrayi. Despite significant advancements in comprehending the underlying mechanisms of this disorder and devising successful therapeutic approaches, numerous obstacles continue to hinder its effective management. By adopting a comprehensive approach that integrates lifestyle modifications, pharmacotherapy, and patient education, healthcare providers can effectively mitigate the impact of *Vatarakta* on patients' lives and improve long-term outcomes. The continuous use of modern medicine for a long duration causes toxicity in the body. Hence, there is an urgent need of application of Ayurvedic medicines in Vatarakta. Ultimately, this underscores importance the multidisciplinary approach, combining the wisdom of traditional Ayurveda with the advancements of modern medicine to provide effective comprehensive care for patients with Vatarakta. Future research should focus on clinical trials and pharmacological studies to validate traditional therapies and explore their potential synergies with contemporary medicine.

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*Address for correspondence Dr. Akansha Singh

MD Scholar Dept. of Panchakarma, Patanjali Bhartiya Ayurvigyan Evum Anusandhan Sansthan, Haridwar.

Email:

singh.akansha290598@gmail.com

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