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A SMALL GROUP STUDY ON THE EVALUATION OF EFFECTS OF SHATAVARI GHRITA IN MANAGEMENT OF VATARAKTA W.S.R. TO GOUT

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ABSTRACT

Vatarakta (gout) is the most common form of inflammatory arthritis in men > 40 years of age worldwide. Vatarakta (gout) is the disease which involves both metabolic and functional impairment and is characterized by pain, stiffness, itching, burning sensation, altered coloration over joint space and especially involves small joints of hands and feet. The prevalence of gout varies between populations and is around 1%. Here in this study 15 patient of Vatarakta are randomly selected and assessed on the basis of sign and symptoms given in Charak Samhita as subjective criteria. Serum uric acid is assessed as

objective parameter. *Shatavari Ghrita* was given in dose of 10ml twice a day with milk for 30 days. After 30 days the subjective and objective parameters were compared. It provided extremely significant relief in *Sandhi Stabdhta*, very significant results in *Sandhi Shula* and *Sandhi Daha*, significant results in *Sandhi Sankoch*, *Sandhi Sotha* and *Sandhigata Daha*. *Sandhigata Kandu* and *Twak Vaivarnya* got not quite significant results and result on *Sandhi Vistara* was insignificant.

KEYWORDS: Vatarakta, gout, Shatavari Ghrita, Sandhi Stabdhta, Shula.

INTRODUCTION

Ayurevda is the unique science of the universe which is devoted to the well-being of living beings. Ayurveda being the Upveda of Atharvaveda, deals with the preservation of health, diagnosing the ill health and treating the diseased person. It is perhaps the oldest existing body of knowledge on the healing process. Ayurveda helps us to create and maintain the

diseased free body and mind. According to *Ayurveda* by *Swastha*(healthy) it is implied that the person who's *Dosha*, *Agni* & functions of *Dhatu* & *Mala* are in the state of equilibrium & who has cheerful mind, intellect & sense organs.

Vatarakta comes under the domain of Vatavyadhi and it mostly affects the extrimities. The umbrella of Vatarakta in parlance with conventional medicine includes many conditions related to joint disordes of the extremities involving connective tissue disorders. The prevalence of gout varies between populations and is around 1% with strong male predomonance. Reported prevalence of this arthritis is 2.0 to 2.6 per 1000 patients, usually between the age group of 25-50 years. Gout is the most common form of inflammatory arthritis in men > 40 years of age worldwide. Prevalence of gout and hyperuricaemia is increasing over the past few decades in response to a number of factors. It is characterized by severe pain, tenderness and inflammation in the joint space, hindered joint mobility, stiffness and discoloration of skin of the joint. In the Ayurveda literature it is emphasized that the etiological factors lead to the predominant morbidity of Vata Dosha and Rakta Dhatu and hence it is named as Vatarakta. The specific etiological factors of Vata Dosa and Rakta Dhatu separately lead to the morbidity of them with the involvement of Raktamarga. The pathology leads to Stabdhata, Sankoch, Daha and Paka in the joint space hence for alleviation of these features Mridu Guna can be used in form of various formulations.

Various systems of medicines come up with various remedies and therapeutic procedures like use of colchicine, NSAIDS, uricosuric drugs, or allopurinol etc. or surgical procedures. In spite of their therapeutic values, these procedures pose temporary relief, limitation and several health hazards on the body. Hence the present clinical study aims to evaluate the efficacy of *Shatavari Ghrita*^[4], mentioned as the preparation of choice in management of *Vatarakta*. Thus the present study was carried out with an aim to strike upon a better efficient *Shamana Yoga* for *Vatarakta*.

AIMS AND OBJECTIVES

- 1) To evaluate the therapeutic effects of *Shatavari Ghrita* in *Vatarakta*.
- 2) To evaluate the effect of *Shatavari Ghrita* in hyperurecemia.

MATERIALS AND METHODS

Source of data: The study was conducted over 15 clinically diagnosed patients of *Vatarakta* of OPD of *Arogyashala* N.I.A. Jaipur and SSBH Jaipur.

Intervention used in the study: *Shatavari Ghrita* were procured from National Institute of Ayurveda Pharmacy, Jaipur was administered orally in a dose of 10 ml with milk twice a day for 1 month.

Inclusion Criteria

- 1). Patients of either sex between the age gap of 16-70yrs.
- 2). Patients having clinical sign & symptoms of *Vatarakta* as per classical *Ayurveda* literature.
- 3). Patients willing to sign the consent form.
- 4). Patients having chronicity less than one year.

Exclusion Criteria

- 1). Patients suffering from other joint diseases like OA, RA, psoriatic arthritis etc.
- 2). Patients suffering from any major diseases like DM, T.B. etc.
- 3). Patients suffering from severe systemic multiorgan syndromes.

Investigation: Serum Uric acid.

Criteria for Assessment

Most of the signs and symptoms of *Vatarakta* are subjective in nature, to give the results objectively and for statistical analysis scoring system have been adopted. In the present study, the scores given by symptom ranking scale were assessed. The assessment was done before starting the treatment and every follow up i.e. 15 days and at the completion of the treatment.

Subjective parameters

Table no. 1

PARAMETERS	FINDING	
Sandhi Shula (pain in joints)	Absence of sandhishula/ not tender	0
	Bearable sandhishula / tender	1
	Sandhishula which lightly hampers routine work / tender with	
	wince response	2
	Sandhishula which restricts routine work /tender, with wince ar	
	withdraw response	3
Sandhi Sankoch (range of motion)	Normal range of motion	0
	Normal range with pain	1
	Range reduced	2
	Absolute restricted movement	3
Sandhigata Kandu	Absence of <i>Kandu</i> (itching in joints)	0
	Itching in joints occasionally	1
	Itching persists but bearable	2

	Itching which irritates the patient	3
Sandhisotha	Absence of Sandhisotha / none	0
	Mild Sandhisotha /probable	1
	Sandhisotha hampering joint movement /definite swelling	2
	Sandhisotha which restricts joint movement /tense swelling	3
Sandhidaha	Absent	0
	Occasional	1
	Persistent but bearable	2
	Very much burning sensation, unbearable	3
Sandhisatabdhta	Absent	0
	Mild	1
	Hampers routine activity	2
	Restricts joint mobility	3
SandhiPaka	Absent	0
	Little which causes pinkish colour of skin	1
	Paka which causes redness of skin	2
	Unbearable <i>Paka</i> which causesredness of skin and tenderness	3
Sandhitwak colour changes to Shyava, Rakta or Tamravarna	SamanyaTwak Varna	0
	Little TwakVivarnatawhich subsideson its own	1
	Intermediate and persistent TwakVivarnata	2
	Severe TwakVivaranta	3
SandhiVistara	No SandhiVistara(no change in size of joint)	0
	Probable increase in size of joint	1
	Intermediate increase in size of joint	2
	Remarkable increase in size of joint	3

OBSERVATIONS AND RESULT

After completion of the therapy of *Shatavari Ghrita* for one month, its effect on the clinical features were observed as presented in table. Various observations made and results obtained were computed statistically using Graph Pad Instat. Software Version 3.10 to find out the significance of the values obtained and various conclusions were drawn. For nonparametric data **Wilcoxon matched-pairs signed ranks test** was used. While for Parametric data **Paired 't' Test** was used and results were Calculated.

Table no. 2: Effect of Shatavari Ghrita on Clinical Features in 15 Patients.

Crymntoma	NI	Mean			c D	S.E.	W	р	Result	
Symptoms	N	BT	AT	Diff.	% diff.	$ \mathbf{S.D.} \mathbf{S}$	S.E.			
Sandhi Shula	9	2.40	1.67	0.73	30.4	0.70	0.18	45	0.004	VS
Sandhi Sankoch	10	1.80	1.27	0.53	29.4	0.64	0.16	44	0.019	S
Sandhigata Kandu	5	0.67	0.33	0.33	49.2	0.49	0.13	15	0.06	NQS
Sandhi Sotha	9	1.27	0.80	0.47	37	0.64	0.16	35	0.039	S
Sandhi Stabdhta	13	2.0	1.00	1.00	50	0.53	0.14	91	0.0002	ES
Sandhigata Daha	8	0.93	0.4	0.53	57	0.52	0.13	36	0.0076	VS
Sandhigata Paka	7	0.80	0.07	0.73	91	0.88	0.23	28	0.0156	S
Twak Vaivarnya	5	1.07	0.73	0.33	30.8	0.49	0.13	15	0.06	NQS
Sandhi Vistara	2	0.60	0.47	0.13	3.6	0.35	0.09	3	0.5	NS

After completion of the therapy with *Shatavari Ghrita* for one month, the effect on clinical features was observed is presented in table. It provided extremely significant relief in *Sandhi Stabdhta*, very significant results in *Sandhi Shula* and *Sandhi Daha*, significant results in *Sandhi Sankoch*, *Sandhi Sotha* and *Sandhigata Daha*. *Sandhigata Kandu* and *Twak Vaivarnya* got not quite significant results and result on *Sandhi Vistara* was insignificant.

Table no. 3. Effect of Shatavari Ghrita on Serum Uric Acid Level.

Investigation	Mean diff.	S.D.	S.E.	t	р	Result
Uric acd	0.9533	1.034	0.2669	3.572	0.0031	VS

Effect on the laboratory parameter uric acid was observed is presented above in table. It provided very significant change in uric acid levels [p<0.0031].

Table no. 4: Mode of action of Shatavari Ghrita.

	Shatavari	Goghrita
Rasa	Madhura, Tikta	Madhura
Guna	Guru, Snigdha, Mridu	Guru, Snigdha, Mridu
Veerya	Shita	Shita
Vipak	Madhura	Madhura
Doshaghanata	Vatapittahara, Raktahara	Vata-Pitta Shaman

Contents of Shatavari Ghrita: Shatavari and Goghrita.

Shatavari^[5] is Madhura-Tikta Rasa Pradhan, having Guru, Snigdha and Mridu Guna, Sheeta Veerya, Madhura Vipaka and having Karma like Vata-Pitta-Ashra Nashan, Tridoshahara, Rasayan, Atisaar Nashan etc.

Goghrita^[6] is Madhura Rasa Pradhan, having Guru, Snigdha and Mridu Guna, Sheeta Veerya, Madhura Vipaka and having Karma like Vatapittahar, Vrnaprasadan, Mridukar and Dahashaman etc.

Table no. 5: Pharmacological properties of Shatavari Ghrita.

Rasa	Madhura, Tikta,
Guna	Guru, Snigdha, Mridu
Veerya	Shita
Vipak	Madhura
Doshaghanata	Vata-Pittahar
Anya	Dahaprashman, Vranya, Rakta Prasadan

DISCUSSION

Vatarakta is a unique disorder among Vatvyadhi which has specific pathogenesis involving vitiation of Rakta and Vata. Vatarakta is caused by long term use of Ahar and Vihar which is Vata Prakopaka and Rakta Prakopaka. The vitiated Vata along with the vitiated Rakta Dhatu moves in the body and takes Sthansamshraya or resides in the Padangushta Sandhi. According to the description available in Ayurvediya texts, therapeutic effect of a drug depends on its pharmacological properties. In Ayurveda these pharmacological properties are described in the form of Rasa, Guna, Veerya, Vipaka and Prabhava of the drug. Here Shatavari Ghrita is chosen for its specific pharmacological properties which help in alleviation of sign and symptoms of Vatarakta.

Effect on Sandhi Shula: Shula is mainly due to Vata Dosha. Madhur Rasa, madhur Vipak, Guru and Snigdha Guna predominant properties led to Vatashaman and hence alleviate Sandhi Shula.

Effect on *Sandhi Sankoch*: *Sandhi Sankoch* is mainly due to vitiated *Vata* which is alleviated mainly by *Snigdha* and *Mridu* properties.

Effect on Kandu: Kandu is mainly due to Kapha and Dushita Rakta. Tikta Rasa is Dosha and Rakta Prasadan.

Effect on Sandhi Sotha: due to Sothahar Prabhava, Tikta Rasa Pradhanta in Shatavari.

Effect on Sandhi Daha: due to *Dahahar Karma,due to Madhur, Tikta, Kasaya Rasa,* due to *Mridu* and *Snigdha Guna* and due to *Shita Virya*.

Effect on Sandhi Paka: due to Madhur, Tikta, Kasaya Rasa, due to Shita Virya and due to Mridu and Snigdha Guna.

Effect on Sandhi Stabdhta: due to Mridu and Snigdha Guna.

Effect on Twak Vaivarnya: due to Vrnya Prabhav, Tikta and Madhur Rasa are Vrnaprasadan.

CONCLUSION

There are so many etiological factors like *Ahara*, *Vihara*, *Prakriti*, inheritance etc. for *Vatarakta*, but the key point is that any factor, which vitiates *Vata* and *Rakta* can lead to

Vatarakta. Based upon its signs and symptoms it can be correlated with gouty arthritis. The present study revealed that oral administration of *Shatavari Ghrita* led to remarkable relief in signs and symptoms of *Vatarakta* and also remarkably reduced the elevated serum uric acid levels. The therapy did not have any side effects. Thus it can be concluded that *Shatavari Ghrita* can be used as a reliable intervention in *Vatarakta*.

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