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An observational study to evaluate the efficacy of Rookasha Poorvaka Virechana Karma followed bv Nasya Karma in the management of frozen shoulder (Avabahuka) in Madhumedha w.s.r. to DM Type-2

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ABSTRACT

The prevalence of diabetes and its complication is increasing all over the world particularly in developing countries. The latest estimates shows a global prevalence of 382 million people with diabetes in 2013 ,expected to rise 592 million by 2035. Diabetes mellitus is a multi system involving disease whose effects are seen by means of severe complication, commonest is musculoskeletal disorder. Diabeties is know to affect the shoulder in many ways commonest among them is Avabuhuka (frozen shoulder). Avabahuka is a disease of amsa sandhi with the clinical presentation such was Stambha, Shula, Shosha which can be correlated with the symptom of frozen shoulder, with no radiographic change only characterized by pain and restricted movement of shoulder joint. Prameha is a babhudoshaja vyadi mainly the meda and kapha are involved at the first it is necessary to bring rookshana effect before Shodhana that is Virechana karma to remove the kapha from kostha. Nasya is a main Chikitsa sutra mentioned in Avabahuka. Hence in the present study Rookshanapoorva Shodhana in the form of Udwartana followed by Virechana karma as kostha shodhanaartha followed by Nasya karma has been adopted. Statistical analysis showed highly significant results p value (<0.0001) in almost all subjective & objective parameters of Avabahuka.

Key words: Avabahuka, Frozen shoulder, Udwartana, Virechana karma, Nasya.

INTRODUCTION

As the Madhumeha advances, excessive loss of kledamsha from the body in the form of bahumutrata leads to ksheena kapha and pitta,^[1] at that stage Vata Dosha is aggravated due to dhatu kshaya and

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indulging in Vatakara nidana will leads to Vata vyadhis. Avabahuka is one among Vataja Nanatmaja Vyadhi. In Madhava nidana, due to loss or dryness of Sleshmaka kapha at amsa sandhi, symptoms like shoola during movement, restricted movement etc. are manifested at *amsapradesha*.^[2] Hence Avabahuka in modern sciences can be correlated to frozen shoulder. Long term complication of diabetes may include changes in connective tissue that occur as a result of high glucose levels. Adhesive capsulitis, often referred to as frozen shoulder refers to pathological condition of the shoulder joint in which affliction of the glenohumeral joint without radiographic changes, characterized by pain and restriction of all the movement of shoulder joint. It is often said that the pain is often severe enough to disturb the sleep.^[3] There are many ways that diabetes can affect the muscles and joints. Collagen is a protein that involved Deepanjali T. et al. Management of frozen shoulder (Avabahuka) in Madhumedha w.s.r. to DM Type-2

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in making ligament and joint capsules. Sugar sticks to the collagen in cell and affects its ability to function.^[4] Diabetes can damage blood vessels and a poor blood supply results in scarring and damage in the body's elastic tissues. Calcium spots in the tendons and muscle around the shoulder are also seen more, this can be related that high blood sugars can impair blood flow through small vessels. The calcium deposits can sometime be painless but often cause severe discomfort or limited movements. This paper throws an insight to the understanding and management of frozen shoulder under the heading of *Avabahuka*.

AIMS AND OBJECTIVES

To evaluate the efficacy of *Rookasahan poorvaka virechana karma* followed by *Nasya karma* in the management of *Avabahuka* (frozen shoulder) in *Madhumeha* w.s.r. to type - 2 DM.

MATERIALS AND METHODS

Source

Patients who were fulfilling the inclusion criteria and diagnostic criteria of *Madhumeha* with *Avabahuka* (Frozen shoulder) were selected from the OPD and IPD of SKAMCH & RC, irrespective of sex, religion and socio economic status.

Materials used

Procedures	Drug used
Sarvanga Udwarthana	Aragvadhadi Choorna
Bashpa Sweda	Ushna Jala
Arohana Krama Snehapana	Moorchita Tila Taila
Virechana Karma	Trivrut Avalehya
Nasya Karma	Kshreebala Taila 8 Bindu Pramana

Assessment of the study will be done before treatment and on the last day of Nasya karma with the follow up for 15 days.

Diagnostic Criteria

- Patients presenting with the *lakshanas* of Madhumeha.
- Patients presenting with the clinical symptom of Avabahuka and frozen shoulder like Shola,

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Restricted movement of shoulder joint , Difficulty in lifting / stretching / extending the arm.

 Patients presenting the signs and symptoms of Type 2 Diabetes mellitus.

Inclusion Criteria

- Patients of either sex in between the age group to 40-60 years.
- Patients presenting with the *lakshanas* of *Sthula* Madhumeha.
- Patients presenting the signs and symptoms of Type 2 Diabetes mellitus.
- Patients fit for *Rookshana Karma*.
- Patients fit for Virechana Karma.
- Patients fit for Nasya Karma.

Exclusion Criteria

- Patients with Juvenile Diabetes, Gestational Diabetes, Type 1 Diabetes mellitus
- Patients with rheumatoid arthritis
- Patients with fracture of the shoulder
- Patients with any infective condition or systemic disorders.

Study Design

A observational study with pre-test and post- test design was conducted on 10 patients with *lakshanas* of *Avabahuka*, Frozen shoulder with the *lakshanas* of *Sthula Madhumeha* w.s.r. to Type 2 Diabetes mellitus was been randomly assigned.

The data obtained was be recorded, tabulated and statistically analysed using suitable Statistical methods.

Intervention

10 patients who fulfil the inclusion criteria were selected and posted.

Sarvanga Udvartana

Sarvanga Udvartana was been done with Aragvadhadi Gana Choorna for 7 days for a duration of 35 minutes followed by Bashpa Sweda. Deepanjali T. et al. Management of frozen shoulder (Avabahuka) in Madhumedha w.s.r. to DM Type-2

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Virechana karma

Snehapana

Arohana Krama Snehapana with Moorchita tila taila was been given for 3 to 7 days based on Koshta and Agni of patient till Samyak Snigdha lakshanas appears.

Sarvanga Abhayanga

During 3 days of *Vishrama kala, Sarvanga Abhyanga* with *Moorchita tila taila* for duration of 35 minutes followed by *Bashpa Sweda* was been done along with *Kapha Avruddhikara* and *Laghu Ahara*.

Virechana Karma

The next day, *Virechana* was been performed with *Trivrut Avalehya* after *Sarvanga Abhyanga* and *Baspha Sweda*. Based on the *kostha* and *agni* dose was been fixedBased on *Shuddhi lakshana*, *Samsarjana Krama* was be advised.

Nasya Karma

After Parihara kala for Virechana karma, Nasya was been adopted with Ksheera bala taila 8 Bindu pramana after Sthinka Abhyanga with Moorchita tila taila for duration of 15 minutes and Pata sweda for 5 minutes for 7 consecutive days.

Assessment of the study will be done before treatment and after *Nasya karma* with the follow up for 15 days.

Assessment of Prameters

The following subjective and objective parameters were assessed using different grading before treatment and during the course of treatment.

Flexion

Up to 180 ⁰	0
Up to 135 ⁰	1
Up to 90 ⁰	2
Up to 45 ⁰	3
Cannot flex	4

Extension

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Up to 60 ⁰	0
Up to 40 ⁰	1
Up to 20 ⁰	2
Cannot extend	3

Internal Rotation

Up to 60 ⁰	0
Up to 30 ⁰	1
Cannot rotate	2

External Rotation

Up to 90 ⁰	0
Up to 60 ⁰	1
Up to 30 ⁰	2
Cannot rotate	3

Abduction

Up to 180 ⁰	0
Up to 135 ⁰	1
Up to 90 ⁰	2
Up to 45 ⁰	3
Cannot abduct	4

Pain

No Pain (VAS)	0
Mild Pain (1-3 VAS)	1
Moderate Pain (4-7 VAS)	2
Severe Pain (8-10 VAS)	3

Tenderness

Patient doesn't allow to touch the part		
Allows touch/ press , but then withdrawing the part	3	
On pressing pain appears on the face of patients	2	
On pressing patient tells, he is feeling pain but no sign in face	1	

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Abduction

Upto 180 ⁰	0
Upto135 ⁰	1
Upto 90 ⁰	2
Upto 45 ⁰	3
Cannot Abduction	4

Adduction

Upto 130 [°]	0
Upto100 ⁰	1
Upto 70 ⁰	2
Upto 40 ⁰	3
Cannot Adduction	4

OBSERVATIONS AND RESULTS

Table1: Showing effect of treatment on Flexion

Flexion	Mea	n	M.D	Paired t test				
BT-AT	ВΤ	AT	1.3	SD	SE	т	Ρ	Re
	2.9	1.6		0.7	0.22	5.9	<0.001	H.S

Table 2: Showing effect of treatment on Extenion

Extenion	Mean		M.D	Paired t test					
BT-AT	BT	AT	0.9	SD	SE	т	Р	Re	
	1.9	0.9		1	0.316	3.16	<0.001	H.S	

Table 3: Showing effect of treatment on InternalRotation.

Internal Rotation	Mean		M.D	Paired t test						
BT-AT	BT	AT	0.8	SD	SE	т	Ρ	Re		
	1.2	0.4		0.44	0.14	5.9	<0.001	H.S		

Table 4: Showing effect of treatment on ExternalRotation

External Rotation	Mean		M.D	Paired t test						
BT-AT	ВΤ	AT	1	SD	SE	т	Р	Re		
	1.5	0.6		0.66	0.20	5	<0.001	H.S		

Table 5: Showing effect of treatment on Pain

Pain	Mean		M.D	Paired t test						
BT-AT	BT	AT	0.8	SD	SE	т	Ρ	Re		
	2.1	1.1		0.416	0.13	6.15	<0.001	H.S		

Table 6: Showing effect of treatment on Tenderns

Tenderns	Mean		M.D	Paired t test					
BT-AT	BT	AT	1.2	SD	SE	т	Ρ	Re	
	2.1	0.9		0.7	0.22	5.45	<0.001	H.S	

DISCUSSION

As Madhumeha is an Kleda Pradana, Marmastha Vyadhi and which involves Mahadosha it essential to control abadda meda, bahu darava kapha before Snehapana, Hence Rookshana^[5] with Aragwadadi *aana choorna* for *Udvartana*^[6] was adopted for 7 Aragwadadi gana choorna contains Tikta, davs. Kashaya rasa , Rookasha and Tikshana guna these gets absorbed through Romakupa and increases agni at the level of twak that in turn increases the Brajaka pitta by which the Virya of Aoushadi get absorbed by this Rooksha guna increases all over the body mean while it decrease kledatha in the Sharira which is one among the *Dooshyas* of *Madhumedha*.^[7] And hence Medasaha Shoshana, Vatahara, Gouravahara and Sthirikarnam Anganam is achieved.^[8] Snehapana with Moorchita Tila Taila was adopted for minimum of 3 day and maximum for 5 days by considering the indications of Taila for Snehapanartha such as Pravruddha Sleshma, Medas, Chalasthulagalaudara, Drudatha and Sthiragaatra thus Taila was selected.^[9] Taila does the Uthkleshana of the Doshas in the Kostha. Sarvanga Abhanga followed by Bashpa Sweda was done for three days. Virechana karma has done with Trivrut Avalehya, because of its Tikta, Katu Rasa, Ushna, Teekshana, Sukshma, Vyavayi and Vikasi quna it reaches upto Hridaya by it Virya then circulates through vessels, Agneya guna causes Vishyandana and by tikshna quna causes disintegration of dosha, as Virechana dravya are predominate of prithvi and jala mahabutha cause the

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downward movement & help in expelling the dosha through *guda marga*.^[10] Hence for the purpose of *kosta*^[11] *Shodhanaartha* and *Kaphahara virechana* was adopted as kapha is armbaka dosha in Madhumeda thereby it was necessary for adopting Virechana as Poorva karma to Nasya karma.^[12] Samarjana karma was advised based on Shuddhi. Once the Kosta shodhana was done, Nasya with kshreea bala taila was adopted in the form of Sehana Nasya which has been indicated in Avabahuka.^[13] In Avabahuka due to Vata, dhatukshaya occur and it further provocate Vata and by producing sira snaya sankocha and shleshma Kashaya in amsapradesha.^[14] This obliterates the internal stability of the joint and results in restricted movement of joint & pain. Sneha Nasya provides nourishment to the Shiras, Sira and Snayu in the Amsapradesha there by alleviates the Vata by Madhura rasa, sheeta virya snigdha guna and tridoshahara properties & it does Brumhana of dhatu.

CONCLUSION

The present study revealed that *Madhumeha* on long term leads to *dhatu kshaya* and *shosha* in *amsapradesha* will manifest the *Avabahuka*. The present study shown highly significant results which indicates that improvement in degree of shoulder joint movement which is achieved to great extend by *Rookshana Poorvaka Virechana Karma* followed by *Nasya karma*.

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