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A RANDOMIZED CLINICAL STUDY TO EVALUATE THE EFFECT OF BRAHATYADI YAPANA BASTI AND BRAHATYADI YAPANA BASTI WITH ABHYANGA IN KAMPA VATA W.S.R TO PARKINSON'S DISEASE

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ABSTRACT

prevalent neurodegenerative ailment after The second most Alzheimer's is Parkinson's disease. The condition affects about two out of every 1000 people, and it most frequently strikes persons after the age of 50. It affects more in male than female. Numerous research projects examine possible therapies for treating some of Parkinson's disease's symptoms. Understanding Parkinson's disease in terms of Ayurveda can be done under the Vatavyadhi, to be specific, caused by the Vata Avarana, so possible correlations in Ayurveda for Parkinson's disease are Kaphaavruta vyana, Pranaavruta samana, and Vepathu, even though no single Avarana process completely covers all symptoms of Parkinson's disease. **Objective of the study:** To evaluate the effect of Brahatyadi yapana basti in the management of Kampavaata. To evaluate the effect of Brahatyadi yapana basti along with Abhyanga with Bala Taila in the management of Kampavaata. To compare the effect of Brahatyadi yapana basti and Brahatyadi yapana

basti along with Abhyanga with Bala Taila in Kampavaata. **Methodology**: This is an open clinical study with pre-test and post-test design where in minimum of 30 patients diagnosed as Parkinson's disease of either sex and patients fulfilling the inclusion criteria were

randomly selected from OPD / IPD of S.D.M Ayurveda Hospital Kuthpady, Udupi. **Result:** Brahatyadi yapana basti along with Abhyanga showed good improvement in Kampa, Gatisanga. Brahatyadi yapana basti along with abhyanga showed better improvement after follow up as compared to brahatyadi yapana basti alone in vakvikriti. Brahatyadi yapana basti along with Abhyanga has shown good improvement in objective parameters like picking of pins, buttoning of time, Rapid alternating movement. There is not much changes seen in Matiksheena and stambha, walking time with Brahatyadi yapana basti or Brahatyadi yapana basti and Abhyanga. But Brahatyadi Yapana basti and Abhyanga showed significant improvement after follow up in walking time. **Conclusion:** To conclude *Brahatyadi Yapana Basti* along with *Abhyanga* has showed better improvement in treating *Kampavata*.

KEYWORDS: Kampavata, Parkinsons disease, Brahatyadi yapana basti, Abhyanga, Bala taila.

INTRODUCTION

Panchakarma plays an essential role in Ayurveda, particularly Basti Karma. The Maharshi Charaka statement "Basti Vataharanam Shreshtham" conveys the knowledge that Basti is the most effective way to treat any Vata Vyadhi. [1] Basti is an effective palliative treatment for the vitiated doshas. Sushruta asserts that Vataja, Pittaja, Kaphaja, and Raktaja disorders can be treated both independently or in combination. By witnessing its advantages, Acharyas regarded basti karma as Ardha chikitsa, and some of the acharyas even believed that it was a complete cure for all ailments.

Parkinson's disease can be correlated in Ayurveda as "Kampavata". Kampavata expresses signs and symptoms as karapadatalekampa, dehabhramaduhkhita, nidrabhanga, matihksheen. Other possible correlations in Ayurveda for Parkinson's disease are Kaphavrutavyana Pranavrutasamana, vepathu. Bradykinesia, rigidity, shuffling gait, postural instability, tremor, and loss of natural movement are all symptoms of idiopathic Parkinson's disease.

Parkinson's disease is currently incurable and has no known cure. There are many treatments available to both postpone the development of motor symptoms and to lessen their severity. All of these treatments aim to enhance the brain's dopamine levels either by supplying dopamine in its place, by simulating dopamine, or by extending the effects of dopamine by preventing its breakdown. According to studies, early treatment during the non-motor period

can postpone the emergence of motor symptoms and hence improve quality of life. Parkinson's disease can be understood in terms of Ayurveda under the specific vatavyadhi induced by the vata Avarana. Therefore, it can be compared to Kaphaavruta vyana^[6], Pranaavruta samana^[7] and Vepathu.^[8] The course of treatment for the aforementioned centres around Yapana basti/Rasayana chikitsa when Avarana is present in relation to Marma, Asthi, or Sandhi and is either directly or indirectly engaged since it is vatavyadhi. If the patient is currently taking allopathic medication, this treatment plan even shows promise in reducing the negative effects of such medications and managing their dosage.

MATERIALS AND METHODS

Patient source: Patients diagnosed with *Kampavata*/Parkinson's Disease were selected from OPD and IPD of Shri Dharmasthala Manjunatheshwara Ayurveda Hospital, Kuthpady, Udupi.

Medicine source: Kashaya Dravyas, Kalka Dravyas, Madhu, Goghrita, Murchita tilataila, Godugdha required for Yapana Basti were procured from SDM Ayurveda pharmacy, Udupi. Bala Taila for Abhyanga and Dhanwanatara Taila for Matra Basti were procured from SDM Ayurveda Pharmacy.

Diagnostic criteria

Patients presenting with at least two *lakshanas* of *kampavata* such as *karapadatalekampa*, *dehabhramaduhkhita*, *nidrabhanga*, *matihksheena*^[2] and at least two symptoms of Parkinson's Disease like resting tremor, rigidity(stiffness), bradykinesia(slowing), and gait dysfunction with postural instability.

Inclusion criteria

- Patients presenting with the diagnostic criteria.
- Patients of age group between 18-70 years.
- Who are fit for *yapana basti* and *Abhyanga*.

Exclusion criteria

- Pregnant and lactating women
- Secondary Parkinsonism
- Parkinson plus syndrome

INTERVENTION

All the 30 Patients were divided randomly into Group A and Group B (15 Patients in each group).

GROUP A.

Brahatyadi Yapana Basti

Makshika-100ml

Saindhava- 10gm

Murchitatila taila- 50ml

Go-ghrita - 50ml

Ksheerapaka of Brahati, Kanthakari, Shatavari, Chinnaruha- 240ml

(40gm dravya each+ 240ml godugdha+ 480ml water boiled and reduced to 250ml)

Kalka- 30gm (*Madhuka*+ *Madana Pippali*)

Total= 480ml

- ❖ Matra Basti with Dhanwantara Taila^[9]- 30ml
- > Preparation of the medicine: Basti dravya is mixed in the order of

Group B

- I. Yapana basti and Matra Basti was given as mentioned previously.
- II. ABHYANGA Abhyanga with Bala Taila 100ml was done at 11:00 AM

Subjective Parameters

- Symptoms of Kampavata/Parkinson's Disease like
- **❖** *Karapadatalekampa* (Tremors)
- ❖ Dehabhramaduhkhita
- **❖** Nidrabhanga
- **❖** *Matihksheena*^[2]
- ❖ *Vakvikruti:* (monotony).
- Gatisanga: (Bradykinesia)
- **❖** *Rigidity*(stiffness)

The questionnaire was conducted on the basis of The Unified Parkinson's Disease Rating Scale (UPDRS) as per the guidelines of The International Parkinson and Movement Disorder Society.^[10]

RESULT

Results were analysed statistically using Wilcoxon Signed rank test

BT: Before the initiation of *Brahatyadi yapana basti* in Group A; *Brahatyadi yapana basti* and *Abhynaga* in Group B.

AT: Immediately after the completion of the treatment.

AF: After the completion of follow up of 16 days.

1. Kampa

Table No. 1: Showing the mean of *Kampa* within the groups.

Group	Kampa mean			
	BT AT 15 th Day			
Group A	3.0667	2.2000	1.8000	
Group B	3.0667	1.7333	1.2667	

In the current study, on comparing within the groups, i.e. Group A and B, both groups showed statistically highly significant improvement in *Kampa* after treatment and after follow up. On comparing between the groups, it was found that Group B showed better improvement than group A in *Kampa*. Parkinson's disease occurs in old age, *Vata Prakopa* occurring in this age is mainly due to *Dhatukshaya*. Even though *Brahatyadi Yapana Basti* acts as *Balya* and Rasayana but single *Yoga Basti* course may not be sufficient to combat with *Vata Dosha*. Hence *Abhyanga* along with *Basti* helps to yield better result.

2. Gatisanga

Table No. 2: Showing the mean of *Gatisanga* within the groups.

Group	Gatisanga mean			
	BT AT 15 th Day			
Group A	2.6667	1.8667	1.4667	
Group B	2.4667	1.2667	1.0000	

In the current study, on comparing within the groups, i.e. Group A and in Group B, both groups showed statistically highly significant improvement in *Gatisanga*. On comparing between the groups, it was found that Group B showed better improvement than group A after treatment in *Gatisanga*, but there is no significant improvement seen after follow up in both the groups. In this study *Gatisanga* is the one symptom which occurred initially in most of the patients. Good improvement might be due to *Brahatyadi Yapana Basti* which acts as both *Shodhana* as well as *Brumhana*. Due to its duel effect it was able to break the *Avarana* pathology in some extent.

3. Vakvikriti

Table No. 3: Showing the mean of vakvikriti within the groups.

Group	Vakvikriti mean		
	BT AT 15 th Day		
Group A	1.733	1.0667	.8667
Group B	2.2000	1.2000	.7333

In the current study, on comparing within the groups, i.e. Group A and in Group B, Group A showed better improvement after treatment; but there is significant change in Group B after follow up in Vakvikriti. On comparing between the groups, it was found that there are no significant changes seen in both groups, but Comparatively, Group B improved more than Group A did. Dysarthria are common in patients with Parkinson's disease. Vakvikriti has been explained in eighty types of Vata vitiated disorders. Abhyanga and Brahatyadi Yapana Basti aid in reducing *Vata Dosha*, thereby lowering *Vakvikriti*.

4. Stambha

Table No. 4: Showing the mean of Stambha within the groups.

Cwayn	Stambha mean			
Group	BT AT 15 th Day			
Group A	2.8000	2.000	1.8000	
Group B	2.5333	1.4000	.9333	

In the current study, on comparing within the groups, i.e. Group A and in Group B, Group B showed more significant improvement in *Stambha*. On comparing between the groups, it was found that there are no significant changes seen in both groups, but Group B showed better improvement compared to Group A. Dalhana defined Stambha as immobility[11] (Su. Ni.1/27). According to Charaka, Kashaya Rasa produce Stambha^[12] (Ch. Su. 26). It shows the involvement of Vata and Kapha in the disease. Stambhana is also sign of Avarana of Vyana by Kapha^[13](Su. Ni. 1/39). Again, due to its duel effect of Brahatyadi Yapana Basti acted upon both Vata Dosha and Kapha Dosha by removing the Avarana pathology in disease. Abhyanga helped in Vatashamana.

5. Matiksheena

Table No. 5: Showing the mean of *Matiksheena* within the groups.

Group	Matiksheena mean		
	BT AT 15 th Day		
Group A	.46667	.3333	.2667
Group B	.5333	.3333	.2667

In the current study, on comparing within the groups, i.e. Group A and in Group B, there is no significant improvement seen in any group after treatment and after follow up. On comparing between the groups, there was no significant improvement seen in any group. There is slight improvement seen in Group A after treatment compared to Group B, but still is statistically nonsignificant. There is no difference after follow up on comparing between the groups. *Abhyanga* and *Yoga Basti* coarse won't be able to reverse the intellectual impairment in short time.

7. Picking of pin

Table No. 6: Showing the mean of Picking of pin within the groups.

Group	Picking of pin mean		
	BT AT 15 th Day		
Group A	2.2667	1.7333	1.3333
Group B	2.4667	1.3333	.8667

In the current study, on comparing within the groups, i.e. Group A and in Group B, Group A showed significant changes after treatment but more significant after follow up. Group B showed statistically highly significant improvement in picking of pins after treatment and after follow up. On comparing between the groups, it was found that Group B showed significant improvement than group A after treatment, but there is no significant improvement after follow up. Tremors have been greatly reduced as a result of *Vatashamana* after *Basti* and *Abhyanga*, which has made it easier to pick up pins.

8. Buttoning time

Table No. 7: Showing the mean of Buttoning time within the groups.

Group	Buttoning time mean			
	BT AT 15 th Day			
Group A	2.3333	1.8000	1.5333	
Group B	2.6000	1.5333	.7333	

In the current study, on comparing within the groups, i.e. Group A and in Group B, after therapy, Group A exhibited little improvement, followed by a more significant improvement after follow up. Group B showed statistically highly significant improvement after treatment and after follow up. On comparing between the groups, it was found that Group B showed significant improvement than group A in buttoning time.

9. Rapid alternating movement

Table No. 8: Showing the mean of Rapid alternating movement within the groups.

Group	Rapid alternating movement mean			
	BT AT 15 th Day			
Group A	.8667	.9333	1.3333	
Group B	.6000	1.1333	1.2667	

In the current study, on comparing within the groups, i.e. Group A and in Group B, Group A showed no significant improvement after treatment, and significant improvement after follow up. Group B showed statistically significant improvement after treatment and after follow up. On comparing between the groups, there is no significant difference in rapid alternating movement. Given that Shodhana and Vatashamana both facilitate rapid movement, Brahatyadi Yapana Basti alone and Brahatyadi Yapana Basti combined with Abhyanga have the same effect on rapid alternating movement.

10. Walking time

Table No. 9: Showing the mean of Walking time within the groups.

Group	Walking time mean		
	BT 15 th Day AT		
Group A	2.4667	2.0000	1.7333
Group B	2.6000	1.6666	1.0667

In the current study, on comparing within the groups, i.e. Group A and in Group B, Group A showed some improvement after treatment and highly significant improvement after follow up. Group B showed statistically highly significant improvement in walking time. On comparing between the groups, there was no significant improvement seen after treatment, but it was found that Group B showed highly significant improvement after follow up than group A in walking time.

11. Memory

Table No. 10: Showing the mean of memory within the groups.

Group	Memory mean		
	BT AT 15 th Day		
Group A	1.6667	1.7333	1.7333
Group B	1.8667	1.8667	2.0000

In the current study, on comparing within the groups, i.e. Group A and in Group B, there is no significant improvement seen in memory. On comparing between the groups, it was found that there is no difference. There is not much statistical significance, may be because memory

was not significantly affected in the subjects under study.

DISCUSSION

Brahati, Knatakari, Shatavari, and Guduchi are the Dravyas for Ksheerapaka; Madhuka, and Madana Pippali are the Kalka Dravya in the Brahatyadi Yapana Basti^[14] stated in the Charaka Samhita siddhi sthana. Mainly Brahati, kantakari and Guduchi included in the Basti are of *Ushnaveerya* and also having deepana, pachana and kaphavata shamana property. Other ingredients like ksheera, ghrita, yashtimadhu, shatavari are balya and brahmana. Madana helps in shodhana. All these together acts as rasayana.

Parkinson's disease affects 7 to 10 million people worldwide. Rest tremor, rigidity (stiffness), bradykinesia (slowing), and gait impairment with postural instability are the clinical hallmarks of Parkinson's disease1. According to Ayurveda, Parkinson's disease can be compared to "Kampavata". Kampavata exhibits karapadatalekampa, dehabhramaduhkhita, matihksheena indications Vepathu^[15], nidrabhanga, and as and symptoms. Pranavrutasamana^[16], and Kaphavrutavyana are other Parkinson's disease prospects. Symptoms like gadgada mookata found in pranavruta samana which can also be correlated to symptoms like hypophonia seen in Parkinson's Diseases Parkinson's disease should be treated in a way that restrains *Dhatukshaya* and *Avarana*, the intensified *Vata Dosha*. Therefore, Yapanabasti8 is the prime treatment for parkinsonism. Brahatyadi yapana basti are having properties that not only pacify Vata but also help to maintain the Samavastha of Pitta and Kapha. According to Sushrutaacharya, the word "Yapana" has the meanings Dharanam, Poshanam, and Rogashamanam. The Bheda of Niruha Basti is Yapana Basti. Yapana Basti is the Basti that sustains good health for an extended duration. They can be provided regardless of Kala or Ritu, they are known as Ubhayarthakari because they serve as both Shodhana and Shamana, Sadhyo Balajanana and Rasayana.

Abhyanga is mentioned by charakaacharya in kevala vataroga chikitsa Hence, considered to be helpful in relieving symptoms like *vepathu* (*Nanatmaja vata vikara*).

Being a Yapana Yasti, the Brahatyadi Yapana Basti serves as both a Shodhana and a Brumhana. acts on both the pathology related to intestinal gut pathology as well as the pathology of Parkinson's disease, such as neurodegeneration in the brain. Agni is strengthened, and Vibhandha, Sadyobalajanana, Balya, and Deepana are revived. Acting as Rasayana are Brumhana, Balavarnakara, Nirupadrava, Vrushyatama, and others.

Vata and Kapha's functioning can be controlled with the use of Sarvanga Abhyanga. Through the adoption of Abhyanga, the patient's body also achieves Dridata. It also helps in Vatashamana and Jara Vyadhi Nashana. Abhyanga provides a passive type of exercise even for individuals who are unable to engage in active physical activity due to infirmity and advanced age. Rasa Panchak of Bala.

Taila having Ushan Virya and Tridoshahar property. Tila and Bala having Vataharanaam property. Bala Taila makes it potent in alleviating Vata dosha. Thus, Bala Taila Abhyanga and Yapana Basti work together to alleviate symptoms and improve quality of life.

CONCLUSION

30 patients of either sex suffering from Parkinson's disease, who attended the SDM Ayurveda Hospital, were divided into 2 groups and subjected to open clinical study with pre-test and post-test design. The patients in Group A were treated with Brahatyadi yapana basti and Group B were treated with Brahatyadi yapana Basti along with Abhyanga in Yoga Basti pattern. Assessment has been done after treatment and after follow up of 16 days course. After completion of the study the following are the conclusions drawn.

Brahatyadi Yapana Basti being a Yapana Basti acts as Shodhana as well as Brimhana. It is Sadyobalajanana, Vatahara, and Rasayana. Abhyanga being Bahya Sneha helps in Pacifying Vata. Bala Taila helps in mitigating vata and Vatakapha.

Brahatyadi yapana basti along with Abhyanga showed good improvement in Kampa, Gatisanga. Brahatyadi Yapana Basti alone has shown good improvement in Matiksheena, but still is statistically insignificant. Brahatyadi Yapana Basti alone has showed better improvement after treatment in Vakvikriti. Brahatyadi Yapana Basti along with Abhyanga showed better improvement after follow up as compared to Brahatyadi Yapana Basti alone.

There are no changes seen in Stambha either with Brahatyadi Yapana Basti or Brahatyadi Yapana Basti along with Abhyanga after treatment. But significant improvement seen with Brahatyadi Yapana Basti and Abhyanga after follow up. Objective criteria's like Walking time, Buttoning time, Rapid alternating movement, and picking of pins were taken to assess the Chestahani (Chesta sanga, Gati sanga) and Kampa. Brahatyadi Yapana Basti along with Abhyanga has shown good improvement in picking of pins, buttoning of time, Rapid alternating movement. There are no changes seen in walking time with Brahatyadi Yapana

Basti or Brahatyadi Yapana Basti and Abhyanga after treatment. But Brahatyadi Yapana Basti and Abhyanga showed significant improvement after follow up. There is not much statistical significance either with Brahatyadi Yapana Basti or Brahatyadi Yapana Basti along with Abhyanga, may be because memory was not significantly affected in the subjects under study. To conclude Brahatyadi Yapana Basti along with Abhyanga has showed better improvement in treating *Kampavata*.

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