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Research Article

A CLINICAL STUDY TO EVALUATE THE RASAYANA EFFECT OF ASTHISHRINKHALAGHRITA IN JARA

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ABSTRACT

Modern medicine has made a great deal of progress in understanding the aging process and in controlling age-associated health issues. The problems of Aged were neglected by Ayurvedic science and recently there started new advancements in this branch of Ayurveda which is insufficient for the current needs. This had led to lack of active longevity with more disability and dependency. Thus, this study was taken up to evaluate the *Rasayana* (Anti- ageing) effect of *Asthishrinkhalaghrita* in *Jara janya vyadhi* (Diseases due to senility). Methods: In present study, 30 subjects were diagnosed with the *Jara janya vyadhi*, selected randomly and were given with 15 ml of *Asthishrinkhalaghrita* in the morning for 30 days. The data obtained were recorded, tabulated and statistically analyzed using appropriate statistically significant results were obtained, there was a good improvement for the patient in Climbing stairs, Sleep disturbance, *Shwasa vridhi* (Dyspnoea), *Malabadhata* (Constipation), *Agni mandya* (loss of appetite)and weight gain with p value<0.05 and *Slatha sandhi* (laxity of joints)and walking with p value > 0.05. Conclusion: Thus *Rasayana chikitsa* can improve the longevity, positive health; provide the resistance to fight against the diseases, keeping the excellence in the tissues including mental faculties.

KEYWORDS: Jara, Rasayana, Asthishrinkhala ghrita, Anupana.

INTRODUCTION

The death is inevitable with all unfavorable progressive changes of Ageing with decline in vigor. Current statistics put the number of worldwide elderly population at 962 million in 2017; it is expected to cross 2.1 billion by the year 2050^[1]. In Ayurveda ageing is described of two types: *Kalaja* (timely) and *Akalaj* (Untimely)^[2]. The *Kalaja jara* which occurs due to progress of time is *Yapya* (manageable)^[3], this can be stopped or delayed by using the proper measures. As an answer to solve the problems of healthful longevity, the *Rasayana Chikitsa* is helpful. It prolongs the longevity, develops the positive health, mental faculties and imparts the resistance and immunity against the diseases by keeping the excellence in the tissues ^[4].

Asthishrinkhala^[5] is also known as *Cissus* quadrangularis L. belongs to family Vitaceae. It is an old Indian medicine. Almost all parts like, Root, Stem, Leaf are most important part used medicinally. The *Ghrita* in the current study is prepared using this single herb which will impart following properties to the *Ghrita* such as, *Madhura rasa, Laghu* and *Ruksha guna, Ushna virya* with *Vrushya* in turn *Rasayana* and *Sandhaneeya* properties.

As a preventive tool *Jara chikitsa* has got good scope in the today's scenario. In the aged *Vatadosha* is physiologically in a dominant state and *Rasadi dhatus* are in a deficient state^[6]. There are certain rules and regulations mentioned for the same and *Rasayana* therapy is the best one among them which can act both in physical and mental aspects.

AIMS AND OBJECTIVES

To study the *Rasayana* effects of *Asthishrinkhalaghrita* in *Jara*- the elderly subjects.

MATERIALS AND METHODS

A single group of 30 elderly subjects presenting with the classical signs and symptoms of ageing irrespective of gender, religion, occupation and socio- economic status were included into the study. An elaborative case taking proforma was specially designed for the purpose of incorporating all the aspects of disease on Ayurvedic parlance. For the present study patients who fulfill the inclusion criteria were selected randomly from OPD and IPD of Karnataka Ayurveda Medical College Hospital Mangalore irrespective of gender, religion and occupation. Informed consent was taken from each patient. **Table 1: Intervention**

Inclusion criteria

Investigations

1. Toilet using

2. Bathing

(50%)

3. Dressing

(50%)

(75%)

4. Walking

Blood Sugar.

- Subjects above the age of 60 vrs
- Subjects with classical signs and symptoms of Jara
- Intervention
- Intervention Time of Dose Route Anupana Study administration duration Oral Asthishrinkhala 15 ml Milk 30 days Morning before food ahrita 5. Stairs Routine blood investigation, Lipid profile, Fasting a. Grade 1: Without difficulty in climbing (0%) b. Grade 2: Experiencing mild difficulty climbing 30 Assessment Criteria^[7] steps (25%) c. Grade 3: Experiencing moderate difficulty in **Subjective parameters** climbing 30steps (50%) I) Sarva Kriya Asamarthata- (Physical disability) d. Grade 4: Experiencing marked difficulty in climbing 30 steps (75%) a. Grade 1: Independent without difficulty (0%) e. Grade 5: Needs support in climbing (100%) b. Grade 2: With mild difficulty in sitting and II) *Nidranasha* (Insomnia) getting up (25%) **1. Disturbance during sleep** c. Grade 3: With moderate difficulty in sitting and a. Grade 1: No disturbance getting up (50%) d. Grade 4: With marked difficulty in sitting and b. Grade 2: 1-2 time disturbance getting up (75%) c. Grade 3: 3-4 times disturbance e. Grade 5: Needs support (100%) d. Grade 4: 6 times disturbance e. Grade 5: >7times disturbance a. Grade 1: Independent without difficulty (0%) 2. Difficulty in initiating sleep b. Grade 2: With mild difficulty in bathing (25%) a. Grade 1: No Difficulty c. Grade 3: With moderate difficulty in bathing b. Grade 2: 1/2 - 2 hours Difficulty c. Grade 3: 2-3 hours Difficulty d. Grade 4: With marked difficulty in bathing (75%) d. Grade 4: 3-4 hours Difficulty e. Grade 5: Needs other help (100%) e. Grade 5: >4 hours Difficult 3. Sleep time /Duration of sleep a. Grade 1: Independent without difficulty (0%) a. Grade 1:8 hours sleep b. Grade 2: With mild difficulty in dressing (25%) b. Grade 2: 6-8 hours sleep c. Grade 3: With moderate difficulty in dressing c. Grade 3: 4-6 hours sleep d. Grade 4: 2-4 hours sleep d. Grade 4: With marked difficulty in dressing e. Grade 5: 0-2 hours sleep III) Shwasa Vruddhi (Exertional Dysponea) e. Grade 5: Needs other help (100%) a. Grade 1: Dysponea on unaccustomed exertion b. Grade 2: Dysponea on accustomed exertional a. Grade 1- without difficulty (0%) work b. Grade 2: Getting fatigue after covering ³/₄th of c. Grade 3: Dysponea on routine activities like distance to cover earlier (25%) moving about in the house etc.

d. Grade 4: Dysponea on rest

c. Grade 3: Getting fatigue after covering 1/2 of distance to cover earlier (50%)

d. Grade 4: Getting fatigue after covering ¹/₄th of distance to cover earlier (75%)

e. Grade 5: Needs help (others) & cannot even walk ¹/₄th distance to cover earlier (100%)

Exclusion criteria

- Subjects who are suffering from terminal illness.
- Subjects who are completely physically disabled.

IV) Malabaddhata (Constipation)

a. Grade 1: No constipation

b. Grade 2: Regular bowel movement, consistency hard excessive straining and prolonged defecation time

c. Grade 3: 3-6 bowel movements per week, consistency hard.

d. Grade 4: 2- 3 bowel movements per week, consistency hard.

e. Grade 5: bowel movement once or less than one per week, consistency hard.

V) Shlatha Sandhi (Loosening of Joints)

Leg mobility will be assessed by asking the patient to perform a simple test. The patient sitting on a chair will be asked to get up and walk 20 feet distance and then return to the chair and sit down.

a. Grade 1: Normal L.M.T. ≤15 second

b. Grade 2: 15- 20 seconds

c. Grade 3: 20- 25 seconds

- d. Grade 4: 25- 30 seconds
- e. Grade 5: 30- 35 seconds

VI) Agnimandya (loss of appetite)

a. Grade 1: good appetite

b. Grade 2: partial loss of appetite

c. Grade 3: complete loss of appetite (loss of interest)

d. Grade 4: aversion towards food.

Objective parameter

Weight

- a. Grade 1: 0kg.
- b. Grade 2: 0-1kg.
- c. Grade 3: 1-2kg.
- d. Grade 4: 2-3kg.
- e. Grade 5: 3kg and above

OBSERVATION

RESULTS

In the sample taken for the study, 50% of males were registered in comparison to 50% of females. Analysis of age incidence of 30 patients suffering from *Jara* showed more number of patients between the age group of 60-69 years i.e. 80%. 73.33% of the patients were Samvak and 26.67% of the patients were Asamyak in Mutra Pravrutti. Out of them 33.33% of patients were Housewife. 90% patients were married and 10% patients were unmarried. In the study as whole maximum patients in Mala Pravrutti were Asamvak (70%). Out of 30 patients' maximum patients Diet were mixed (86.67%). Out of 30 patients' maximum patients were *Pittakapha* (33.33%) followed by *Vatapitta* Prakruti (30%). Maximum patients Education were High School (60%). Maximum patients habit were NS (66.67%). Out of 30 patients' maximum patients Nadi were Pittakapha (43.33%). Most of the patient's *Jihwa* were *sama* (63.33%). Maximum patients *Akruti* were *Madhyama* (63.33%) and Socio Economic Status were Middle class (46.67%). Maximum patients Vikruti were Vatakapha (50%). Out of 30 patients' maximum patients Shabda were Prakrutha (100%) and most of the patients Sparsha were Prakrutha (100%). Maximum patients Drik were Vaikruta (100%) and Sara were Madhyama (96.67%). Out of 30 patients' maximum patients Samhanana were Madhyama (96.67%) and Pramana were Madhyama (96.67%). Out of 30 patients' maximum patients Satwa were Madhyama (100%). Maximum patients Satmya were Madhyama (100%). Most of the patients *Abhyavaharana Sakthi* were Madhyama (100%). Out of 30 patients' maximum patients Jarana Shakti were Madhyama (100%) and patients Vyayama Shakti were Madhyama (100%). Out of 30 patients' maximum patients Vaya were Vriddha (100%).

Table 2: Effect of treatment on walking and stairs coming under Sarvakriya asamartha

Grownstown	Measures				0/	S.D	$\mathbf{CE}(\mathbf{r})$	t	р
Symptom	BT				%	(+.)	S.E (+.)	value	value
Walking	1.30	AT	1.30	0.00	0.00	0.254	0.047	0.00	>0.05
		AF	1.23	0.07	5.13	0.430	0.080	0.58	>0.05
Stairs	1.73	AT	1.60	0.13	7.69	0.498	0.093	1.01	>0.05
		AF	1.13	0.60	34.62	0.346	0.064	5.26	< 0.05

Table 5. Enect of treatment coming under <i>War underla</i>									
Sumptom	Measures				%	S.D (+.)	S.E (+.)	t	р
Symptom	BT				70	3.D (+.)	3.E (+-)	value	value
Disturbance during sleep	1.50	AT	1.33	0.17	11.11	0.504	0.094	1.09	>0.05
		AF	1.07	0.43	28.89	0.254	0.047	3.50	< 0.05
Difficulty in initiating sleep	1.40	AT	1.37	0.03	2.38	0.535	0.099	0.24	>0.05
		AF	1.10	0.30	21.43	0.305	0.057	2.57	< 0.05
Sleep time/Duration	2.10	AT	1.93	0.17	7.94	0.466	0.087	1.39	>0.05
Sieep time, Duration		AF	1.80	0.30	14.29	0.407	0.076	2.61	< 0.05

Int. J. Ayur. Pharma Research, 2020;8(10):65-69 Table 3: Effect of treatment coming under Nidranasha

Table 4: Effects of treatment on other parameters

Computant	Measur	Measures				S.D		t	р
Symptom	BT				%	(+.)	S.E (+.)	value	value
Shwasa Vruddhi	1 50	AT	1.40	0.10	6.67	0.479	0.089	0.77	>0.05
	1.50	AF	1.17	0.33	22.22	0.379	0.070	2.88	< 0.05
Mala Baddhata	1.93	AT	1.30	0.63	32.76	0.640	0.119	4.38	< 0.05
	1.95	AF	1.00	0.93	48.28	0.000	0.000	7.99	< 0.05
Shlatha Sandhi	1.10	AT	1.10	0.00	0.00	0.000	0.000	0.00	>0.05
	1.10	AF	1.10	0.00	0.00	0.305	0.057	0.00	>0.05
Agni Mandya	1.60	AT	1.20	0.40	25.00	0.498	0.093	3.41 <0.05	
	1.00	AF	1.00	0.60	3 <mark>7.</mark> 50	0.000	0.000	6.60	< 0.05
Weight Gain	1.00	AT	1.13	0.13	1 <mark>3.3</mark> 3	0.596	0.111	2.11	< 0.05
	1.00	AF	1.70	0.70	70.00	0.596	0.111	6.43	< 0.05

Table 5: Overall effect of treatment

Overall Effect of Treatment							
Grading	Relief in Percentage	Relief in Patients					
No Improvement	0-25 %	18					
Mild Improvement	26-50 %	12					
Moderate Improvement	51 – 75 %	0					
Marked Improvement	76 – 100 %	0					

DISCUSSION

The drug Asthishrinkhala is explained in all *Nighantus* (the dictionaries). The drug the Asthishrinkhala has wide range of uses; including the Vrishya property, in turn the Rasayana effect and when used in Ghrita medium can have an exaggerated effect. It has property of Madhura rasa (sweet taste). The qualities of Madhura rasa are Tarpayathi, Shlesmanamabhivardhayati. Because of Ushanaveerya (hot potency) it acts as Vata hara. It also contains anabolic steroid hormone, vitamin-c, carotene, protein, fat etc. By its analgesic property it will help in the reducing pain and inflammatory condition. Cissus also leads to much faster increases in bone tensile strength and very much helpful in degenerative condition of bone. All these properties

are useful in treating the *Jarajanyavyadhis* where the *Vatadosha* is the predominant one.

In this study maximum patients were *Vata-Pitta* and *Kapha- Pitta* predominant. It is clearly mentioned in our texts that lifestyle and various activities should be planned opposite to *Prakriti* for the maintenance of health. As *Vata* is the predominant *Dosha* during *Jara, Vata prakriti* people tend to suffer more due to *Jara janya vyadhis*. In this present study it is noticed the same that the patients with *Vataprakriti* are more afflicted. And the treatment with *Ghrita* made good changes in them physically and mentally.

The Ushna and Vatakaphahara property of Ashthishrinkahala can act as a pain reliever with

Vatahara action and as the *Asthishrinkhala Ghrita* is administered, the *Ghrita* has *Vatahara* and *Balya* action. It had a good effect in pain on walking as it is indicated in *Asthiruja*. As this *Ghrita* is *Vrishya* and in turn *Rasayana*, slowly it does the rejuvenation of the joints.

CONCLUSION

Jara chikitsa in Ayurveda is a method to control or slowdown the process of ageing in human being. There is a need for extensive research on the subject, owing to its influence on the quality of life. The progressive nature of *Jara* can affect the patient's daily life. Such conditions require more preventive line of management.

The main purpose of *Rasayana* therapy is to impade the ageing process and to delay the degenerative process in the body. All the *Rasavana* drugs are different from one another having different properties actions like Medhva, & Balva. Dhatupushtikara, Brimhaniya, Jivaniya, Agnivardhaka etc. Proper understanding and application of this concept in practice of Ayurveda would only lead to perfect and precise treatment. Though the results obtained showed mild improvement in overall statistically, there treatment was a good improvement for the patients suffered from Malabadhata, Agni mandya, difficulty in walking and weight gain.

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