

An International Journal of Research in AYUSH and Allied Systems

Research Article

A CLINICAL STUDY TO EVALUATE THE EFFECT OF *PATHYADI KWATHA* AND *ANU TAILA NASYA* IN THE MANAGEMENT OF *ARDHAVBHEDAKA* W.S.R. TO MIGRAINE

Rani Babita1*, Chaudhary Vijay², Dharmani Geetika³

*1MD Scholar, ²Principal-Cum-Dean, ³Lecturer, PG Dept. of Kayachikitsa, R.G.G.P.G. Ayurvedic College & Hospital, Paprola, Himachal Pradesh, India.

Article info Article History:

Received: 19-11-2024

Accepted: 15-12-2024

Published: 15-01-2025

Ardhavabhedaka.

Pathyadi Kwatha,

Vatshamak, Shiro

Anu tail Nasya,

KEYWORDS:

Migraine,

roga.

ABSTRACT

A rise in acute and chronic health issues is caused by the shifting demands of the workplace, especially in light of urbanization and contemporary lifestyles. A large percentage of people suffer from migraines, one of the most prevalent and debilitating chronic illnesses. Migraines are not life-threatening, but it can significantly affect day-to-day functioning. People who suffer from migraines face not only agonizing pain, but often experience social isolation, disrupted personal relationships, and discrimination at work. In Ayurveda clinical features of Ardhavabhedaka resembles to the symptoms typically associated with migraine, including intense, one sided headache. Treatment modality which are currently available in modern medicine are also not satisfactory and are financially burdensome for many patients. Migraine is managed generally with NSAIDS's and analgesics drugs which give only short term relief and pain may rebound. The purpose of this study was to find out an effective and well accepted drug with minimal or no complications for this illness. 50 patients who were diagnosed with Ardhavabhedaka w.s.r. migraine were allocated randomly into two groups. The trial drug i.e., *Pathyadi Kwatha* 50ml twice a day was given to 25 patients of Group I and trial drug Pathayadi kwath 50ml and Anu tail Nasya was given to 25 patients of group II. Pathyadi Kwath decoction has ingredients having Ushana Virya and Vatshamak properties, which may be useful in management of Ardhavbhedaka and Anu Taila have the property of Tridoshaghnta and Snigdha guna. Subjective parameters were assessed before and after the completion of trial. Data obtained during the trial was tabulated and statistically analysed.

INTRODUCTION

In Ayurvedic literature three vital organs has been described under "*Trimarmas*" and have given prime importance to head i.e., *Shirah*. Almost all the *Acharyas* have mentioned about *Shirah* under *Shiro roga* and cardinal feature of which is *Shiro shoola* (headache).^[1] Headache is a very common problem which cause disturbance in daily routine. Similarly ayurvedic classics have mentioned *Ardhavabhedaka* under *Shiro-roga* which occur due to the vitiation of *Tridosha*^[2] and on the basis of the sign and symptoms it can be correlated with migraine.

Access this article online								
Quick Response Code								
	https://doi.org/10.47070/ayushdhara.v11i6.1835							
	Published by Mahadev Publications (Regd.) publication licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0)							

It is characterized mostly by the pain on one side of the head or half sided headache. Avurveda has been proved effective in Ardhavbhedhaka as number of researches in the past have been done on this disease. Ayurveda is the only medical system which gives the way of perfect living with the nature. Nowadays, most of population is looking towards natural ways of life and have lots of expectations from Ayurveda because Ayurveda not merely deals with cure of disease but also prevention of disease. Headache is normally encountered in general practice that is why every patient with the complaint of headache needs to be excluded for migraine type of headache. Migraine is a disease neurovascular caused by neurogenic inflammation and characterized by severe, recurring headache.[3] It is second most common cause of headache characterized by an episodic severe pain on one side of the head and usually associated with certain features such as sensitivity to light, sound or

movement, nausea and vomiting also accompany the headache. Migraine attacks lasting for 4-72hrs, of a pulsating quality, moderate to severe intensity aggravated by routine physical activity. W.H.O. has mentioned migraine as third most common disease in the world with on estimated global prevalence of 47.7% (Around 1 in 7 people). Migraine is more common in women than in men (5:1).^[4] Migraine is often undiagnosed and untreated and WHO list migraine as one of the world's most debilitating medical condition. The exact mechanism of migraine is not yet known as a result, it is increasingly contemplate as a chronic illness rather than just a headache. It is mainly divided into two subtypesmigraine without aura (common migraine) and migraine with aura (classical migraine). About 20-30% migraine patients experience aura. The common type of migraine occurs in about 70-80% of migraine patients.^[5] Most of the drugs employed in modern medicine for this disease are almost limited to suppress the symptoms. Excessive use of such drugs is found to cause serious side effects like memory loss, gastrointestinal disorders, weight gain etc. and tend to be habit forming; Most individual often needs attacks medication during acute and some prophylactic measures to reduce attack but overuse of such medication causes "medication overuse headache" (MOH) and develop unacceptable side effects. In contrast of that Avurveda has a variety of natural medication in the treatment of Ardhavbhedaka.

AIMS AND OBJECTIVES Primary Objective

To evaluate the effect of *Pathyadi Kwatha* and *Anu Taila Nasya* in the management of *Ardhavbhedaka* w.s.r to migraine.

Secondary Objective

To evaluate the clinical safety of *Pathyadi Kwatha* and *Anu Taila Nasya* in the management of migraine.

MATERIAL AND METHODS

Selection of the Patient

- 1) The patients were selected from the O.P.D. and I.P.D. of Kayachikitsa of R.G.G.P.G. Ayurvedic College and Hospital Paprola, Distt. Kangra (H.P.) 176115.
- 2) Total 50 patients were selected for the present study irrespective of the gender, caste and religion etc.

Study design

Study type - Randomized clinical trial Masking- Single blind Timing- Prospective Study Subjects- 50 No. of group- 2 Duration of trial - 08 weeks Follow up visit- Follow up was done after every 2 weeks till the completion of the trial.

Diagnostic Criteria

Subjective criteria

The patients were diagnosed on the basis of signs and symptoms as described in Ayurvedic literature

- Ardha Parshwa Shoola (unilateral pain)
- *Bheda, Toda, Shoola* (pulsating, throbbing type of pain)
- Parkshat, Akasmat (paroxysmal in nature)
- Prakasha Asahishnut (photophobia)

The diagnosis was made on the basis of criteria of Migraine provided by International Headache Society (ICHD-3)

- I. Migraine without aura
- A positive history of at least five attacks.
- Headache attacks lasting 4-72 hrs.

Headache has atleast two of the following:

- ✓ Unilateral pain
- ✓ Pulsating quality
- ✓ Moderate to severe pain intensity
- ✓ Aggravation by or causing avoidance of routine physical activity.
- ✓ During headache at least one of the following
- ✓ Nausea/ vomiting
- ✓ Photophobia and phonophobia.

II. Migraine with Aura

At least 1 of the following fully reversible aura symptoms:

- ✓ Visual
- ✓ Sensory
- ✓ Speech and language

Inclusion criteria

- Patient who fulfilled the diagnostic criteria.
- Patients of age group between 18-70 yrs will be selected for the study.
- Patients willing to participate and able to provide signed informed consent.

Exclusion Criteria

- Patients with chronic renal failure, uncontrolled diabetes mellitus & HTN will be excluded.
- Patients with status migrainosus, ophthalmic migraine or hemiplegic migraine
- Secondary headache caused by sinusitis, meningitis, brain tumour, encephalitis, cervical spondylitis, refractive error and increased intraocular pressure.
- Individuals not willing to undergo the clinical trial.
- History of hypersensitivity to any of the trial drug or other ingredients.
- Individuals who have completed participation in any other clinical trial during the past six months.
- Any other condition, which the principal investigator thinks might compromise the study.

Criteria of Assessment

On the basis of improvement reported by patients assessment was done and scoring system was

adopted to give objectivity to the symptoms for	Vertigo
statistical analysis.	Nil - 0
Severity of Headache- Grade	Feeling of giddiness - 1
No headache - 0	Patient feels as if everything is revolving - 2
Mild headache, patient is aware only if she/he pay	Revolving signs + blackout - 3
attention - 1	Unconsciousness - 4
Moderate headache, can ignore at time - 2	Aura
Severe headache, can't ignore he/she can do his or	Nil- 0
her usual activities - 3	Last for 5 minutes - 1
Excruciating headache, can't do anything - 4	Last for 15 minutes - 2
Frequency of headache	Last for 30 minutes - 3
No attack- 0	Last for 60 minute - 4
Once in 21 to 30 days - 1	Investigations were done before and after trial
Once in 11 to 20 days - 2	a. CBC
Once in 1 to 10 days - 3	b. ESR
Continuous/daily - 4	c. FBS
Duration of headache (Assessed in term of	d. SGOT, SGPT
hours/day)	e. B. Urea, S. Creatinine
Nil- 0	e. Urine - Routine and microscopic examination
1-3 hours/day - 1	Grouping
3-6 hours/day - 2	Eligible enrolled patients were randomly divided into
6-12 hours/day - 3	following two groups:
More than 12 hours/day - 4	a) Group I – 25 patients were enrolled in this group
Nausea	and they were managed with <i>Pathyadi</i>
Nil - 0	<i>Kwatha</i> in the dose of 50 ml twice a day.
Mild, occasionally - 1	b) Group II – 25 patients were enrolled in this group
Moderate but does not disturb the routine work - 2	and were managed with <i>Pathyadi</i>
Severe, disturbing routine work - 3	<i>Kwatha</i> 50ml twice a day with <i>Anu taila Nasya</i> 2 drops
Severe enough - 4	in each nostril once a day.
Vomiting	Pathyadi Kwath [6]
Nil - 0	पथ्याक्षधात्रीभूनिम्बनिशानिम्बामृतायुतैः ।
Only if headache does not subside - 1	कृतः काथः षडंगोऽयं सगुङः शीर्षशूलहृत्।
Vomiting 1-2 times - 2	भूशंखैकर्णशूलानि तथार्धशिरसो रूजम्।
Vomiting 2 - 3 times - 3	
Forced to take medicine to stop vomiting - 4	सूर्यावर्त शखंक दन्तपातं च तद्रुजम् ।
r - o	नक्तान्ध्यं पटलं शुक्रं चक्षुःपीडां व्यपोहति ।। (शा. म. ख. 2/143,
	144, 145)
S No. Name of Drug Rasa Guna	Virva Vinaka Dosha Karma

S.No	Name of Drug	Rasa	Guna	Virya	Vipaka	Dosha Karma	
1.	Haritaki	Pancharasa	Laghu, Ruksha	Ushna	Madhura	Tridoshaghna	
		(Lavanvarjita)					
2.	Bibhitaki	Kashaya	Laghu, Ruksha	Ushna	Madhura	Kaphapittahara	
3.	Amalaki	Pancharasa	Laghu Ruksha,	Sheeta	Madhura	Tridoshaghna	
		(Lavanvarjita)	Mrudu				
4.	Haridra	Tikta, Katu	Laghu, Ruksha	Ushna	Katu	KaphaVata Shamaka	
5.	Guduchi	Katu, Tikta, Kashaya	Laghu	Ushna	Madhura	Tridoshaghna	
6.	Bhunimba	Tikta	Laghu, Ruksha	Ushna	Katu	Pitta-Kapha Shamaka	
7.	Nimba	Tikta, Kashaya	Laghu	Sheeta	Katu	Pitta Kaphahara	

Anu Taila[7]

जीवन्तीजलदेवरूजलदत्वक्सेव्यगापीहिमं दार्वीत्व्मधुकप्लवागुरूवरीपुण्ड्राह्निल्वोत्पलम् ।

धावन्यौ सुरभिस्थिरे कृमिहरं पत्रं त्रुटिं रेणुका किंजल्कं कमलाद्वलां शतगुणे दिव्येऽम्भसि कृाथयेत। तैलाद्रसं दशगुणं. परिशष्य तेन तैलं पचेत सलिलेन दशैव

वारान्। पाके क्षिपच्च दशमे सममाजदुग्धं नस्यं महागुणमुशन्त्यणुतैलमेतत् । (अ.हू.सू. 20/37, 38)

Anu	Taila					1
S.No	Name of Drug	Rasa	Guna	Virya	Vipaka	Dosha Karma
1.	Daruharidra	Tikta, Kashaya	Laghu, Ruksha	Ushna	Katu	Kaphapittaghna
2.	Jeevanti	Madhura	Laghu, Snigdha	Sheeta	Madhura	Tridoshashamaka
						esp. Vatapittashamaka
3.	Bilva	Kashaya, Tikta	Laghu, Ruksha	Ushna	Katu	Kaphavata shamaka
4.	Sariva	Tikta, Madhura	Guru, Snigdha	Sheeta	Madhura	Tridoshashamaka
5.	Musta	Tikta, Katu, Kashaya	Laghu, Ruksha	Sheeta	Katu	Kaphapittashamaka
6.	Chandana	Tikta, Madhura	Laghu, Ruksha	Sheeta	Katu	Kaphapittashamaka
7.	Tvaka	Katu,Tikta, Madhura	Laghu, Rukshna Teekshna	Ushna	Katu	Kaphavatashamaka
8.	Ushira	Tikta, Madhura	Laghu, Snigdha	Sheeta	Madhura	Vatapittashamaka
9.	Vidanga	Tikta, Katu	Laghu, Ruksha, Teekshna	Ushna	Katu	Kaphavatashamaka
10.	Tejpatra	Katu, Madhura	Laghu, Pichchhila Tikshna	Ushna	Katu	Kaphavatashamaka
11.	Shalaparni (Sthira)	Tikta, Madhura	Guru, Snigdha	Ushna	Madhura	Tridoshashamaka
12.	Padmakesara	Madhura, Tikta Kashaya	Laghu, Snigdha Pichchhila	Sheeta	Madhura	Kaphapittashamaka
13.	Yashtimadhu	Madhura	Guru, Snigdha	Sheeta	Madhura	Vatapittashamaka
14.	Devadaru	Tikta	Laghu, Snigdha	Ushna	Katu	Kaphavatashamaka
15.	Bala	Madhura	Laghu Snigdha, Pichhila	Sheeta	Madhura	Pittavatanashaka
16.	Nirgundi	Tikta, Katu	Laghu, Ruksha	Ushna	Katu	Kaphavatashamaka
17.	Nagakeshara	Kashaya, Tikta	Laghu <mark>R</mark> ukshna	Ushna	Katu	Kaphapittashamaka
18.	Shatavari	Tikta, Madhura	Guru, Snigdha	Sheeta	Madhura	Vatapittashamaka
19.	Prishniparni	Tikta, Madhura	Laghu, Snigdha	Ushna	Madhura	Tridoshashamaka
20.	Brihati	Katu, Tikta	Laghu, Rukshna <mark>,</mark> Tikshna	Ushna	Katu	Kaphavatashamaka
21.	Agruu	Tikta, Katu	Laghu, Ruksha, Tikshna	Ushna	Katu	Kaphavatashamaka
22.	Prapaunda (Kamla)	Madhura, Tikta Kashaya	Laghu, Snigdha Pichchhila	Sheeta	Madhura	Kaphapittashamaka
23.	Utpala	Madhura, Tikta Kashaya	Laghu, Snigdha Pichchhila	Sheeta	Madhura	Tridoshahara (Vatapittashamaka)
24.	Sugandhbala (Tagar)	Tikta, Katu, Kashaya	Laghu, Snigdha	Ushna	Katu	Kaphavatashamaka
25.	Pallava	Tikta, Katu, Kashaya	Laghu, Ruksha	Sheeta	Katu	Pittashamaka
26.	Vyaghri (Kantkaari)	Tikta, Katu	Laghu, Ruksha Tikshna	Ushna	Katu	Kaphavatashamaka
27.	Surabhi (Rasana)	Tikta	Guru	Ushna	Katu	Kaphavatashamaka

Statistical Analysis

- Data was collected and recorded in detailed in clinical proforma. The obtained data was analyzed statistically and expressed in the terms of mean score before treatment (BT), after treatment (AT), difference of mean (BT-AT), standard deviation (SD) and standard error (SE). Overall percentage improvement of each patient was calculated.
- Data was arranged in MS Excel. Student's unpaired 't' test was used to compare difference in mean

values between the two groups. Paired 't'-test has been used for within group analysis. The results were considered significant or insignificant depending upon the value of p.

- ✤ Highly significant p<0.001</p>
- ✤ Significant p<0.05</p>
- ✤ Insignificant p>0.05

OBSERVATIONS AND RESULTS

24% patients were male and 76% patients were female. Maximum number of patients in the present study i.e. 14 patients (28%) were in the age group 21-30 years followed by 13 patients (26%) in the age group of 41-50 years. Considering the religion, 100% patients were Hindu. 72% patients were married and 28% patients were unmarried. 70% of the patients belonged to rural area and 30% of the patients were from urban area. Among 50 registered patients, maximum patients i.e. 42% were matriculate, 24% were educated up to graduate, 14% were studied upto primary and post graduate were 08% while rest 12% were illiterate. Among the 50 registered study subjects, majority of the patients were belong to middle class i.e. 54 % and 36% belonged to BPL class and rest of the patients belongs to rich class i.e.10%.In this distribution, 24% of patients were doing fieldwork, followed by 20% patients were doing deskwork, 12% patients were labourer and house worker and majority of the patients belong to others i.e., 32%. Majority of the patients i.e., 62% consumed mixed diet while rest i.e. 38% patients were consuming vegetarian type of diet. In this distribution, majority of patients i.e., 50%

have active type of life style, 34% of patients had sedentary lifestyle and 16 % of patients had average life style. Majority of the patients in both the groups i.e., 68% had disturbed sleep followed by 32% had sound and adequate sleep. Among 50 registered patients, maximum i.e., 68 % had normal appetite and 32% had reduced appetite. Maximum number of patients i.e., 42% had regular bowel movements, followed by 38% having constipation and 20% had irregular bowel movements. Data showed that the maximum patients had Vatapittaja Prakriti i.e. 48 % followed by Kaphavataja Prakriti were 34% and rest 18% were of Pittajakaphaja Prakriti. Maximum number of patients i.e., 60% had gradual onset of headache, followed by 40% had sudden onset of headache.

Effect of Therapy

All the patients were registered from OPD/IPD of R.G.G.P.G. Ayurvedic College & Hospital, Paprola, 50 patients were given the trial drugs. The effect of *Pathyadi kwatha* and *Anu Taila Nasya* in 50 patients on various assessment criteria was obtained after statistical analysis of the data and is presented in tabular form.

	Group-I and Group-II												
S.No.	Variables	Groups	No.	×	Mean	66	Changes	SD+	SE+	"t"	P value	Sig.	
				BT	AT	Diff.	in %			value			
1.	Severity of	G-I	25	1.880	1.000	0.880	46.80%	0.726	0.145	8.365	< 0.001	HS	
	headache	G-II	25	2.040	0.440	1.600	78.43%	0.978	0.196	10.474	< 0.001	HS	
2.	Frequency of	G-I	25	1.720	0.880	0.840	48.83%	0.792	0.158	8.887	< 0.001	HS	
	headache	G-II	25	1.760	0.360	1.400	79.54%	0.879	0.176	14.000	< 0.001	HS	
3.	Duration of	G-I	25	1.760	1.040	0.720	40.90%	0.831	0.166	7.856	< 0.001	HS	
	headache	G-II	25	1.480	0.280	1.200	81.08%	0.770	0.154	9.295	< 0.001	HS	
4.	Nausea	G-I	25	1.440	0.760	0.680	47.22%	0.821	0.164	7.141	< 0.001	HS	
		G-II	25	1.480	0.320	1.160	78.37%	0.770	0.154	9.287	< 0.001	HS	
5.	Vomiting	G-I	25	1.400	0.720	0.680	48.57%	0.866	0.173	6.107	< 0.001	HS	
		G-II	25	1.600	0.200	1.400	87.50%	0.707	0.141	12.124	< 0.001	HS	
6.	Vertigo	G-I	25	1.320	0.720	0.600	45.45%	0.690	0.138	5.196	< 0.001	HS	
	_	G-II	25	1.440	0.440	1.000	69.44%	0.712	0.142	5.774	< 0.001	HS	
7.	Aura	G-I	25	1.200	0.680	0.520	43.33%	0.645	0.129	5.099	< 0.001	HS	
		G-II	25	1.160	0.320	0.840	72.41%	0.554	0.111	7.584	< 0.001	HS	

Effect of Therapies on Subjective Criteria

↑- Increase, ↓- Decrease, HS – Highly Significant, S – Significant, IS – Insignificant

- **1. Severity of Headache:** The mean score of Intensity of Headache before treatment was 1.880 which reduced to 1.000 after treatment showing a relief of 46.80% in group-I which was statistically highly significant (p<0.001). In group-II the mean score of severity of headache before treatment was 2.040 which reduced to 0.440 after the treatment showing a relief of 78.43% which was statistically highly significant (p<0.001).
- 2. Frequency of Headache: In group-I, the mean value of frequency of headache before treatment was 1.720 which reduced to 0.880 after the treatment with change of 48.83%. This is statistically highly significant with p-value <0.001. In group-II, the result was statistically highly significant (p-value <0.001) as there was a change of 79.54% and mean score before and after treatment was 1.760 and 0.360 respectively.</p>

- **3. Duration of Headache:** In group-I the mean score of duration of Headache before treatment was 1.760 that reduced to1.040 after treatment with a change of 40.90%. The change was statistically highly significant with p-value <0.001). While in group-II, the mean value of 1.480 reduced to 0.280 after the therapy with change of 81.08%. The change was statistically highly significant (p<0.001).
- **4. Nausea:** The mean score of Nausea in group-I before treatment was 1.440 which reduced to 0.760 after treatment with a change of 47.22% that was statistically highly significant with p-value <0.001.
- **5.** While in group-II, there was 78.37% change in mean value of nausea from 1.480 to 0.320. The change in group-II was statistically highly significant with p-value <0.001.
- **6. Vomiting:** The mean score of Vomiting before treatment was 1.400 which reduced to 0.720 after treatment showing a relief of 48.57% in group-I which was statistically highly significant (p<0.001).

In group-II the mean score of vomiting before treatment was 1.600 which reduced to 0.200 after the treatment showing a relief of 87.5% which was statistically highly significant (p<0.001).

- **7. Vertigo:** In group-I, the mean value of vertigo before treatment was 1.320 which reduced to 0.720 after the treatment with change of 45.45%. This is statistically highly significant with p-value <0.001. In group-II, the result was statistically highly significant (p-value <0.001) as there was a change of 69.44% and mean score before and after treatment was 1.440 and 0.440 respectively.
- **8. Aura:** The mean score of Aura before treatment was 1.200 which reduced to 0.680 after treatment showing a relief of 43.33% in group-I which was statistically highly significant (p<0.01). In group-II the mean score of aura before treatment was 1.160 which reduced to 0.320 after the treatment showing a relief of 72.41% which was statistically highly significant (p<0.001).

Intergroup Comparison of Subjective Criteria

The intergroup testing among two groups was done using unpaired t- test. The results were as follows-

	Group-I and Group-II												
S.No.	Variables	Result	1	Diff in	SD+	SE+	"t"	"p"	Sig.				
		G-I	G-II	%			value	value					
1.	Severity of headache	46.80%	78.43%	-31.6%	0.526	0.105	-3.88	< 0.001	HS				
2.	Frequency of headache	48.83%	79.54%	-30.7%	0.473	0.0945	-4.07	< 0.001	HS				
3.	Duration of headache	40.90%	81.08%	-40.1%	0.458	0.0917	-3.03	0.004	S				
4.	Nausea	47.22%	78.37%	-31.0%	0.476	0.0952	-3.05	0.004	S				
5.	Vomiting	48.57%	87.5%	-38.9%	0.557	0.111	-4.48	< 0.001	HS				
6.	Vertigo	45.45%	69.44%	-23.9%	0.510	0.102	-2.38	0.021	S				
7.	Aura	43.33%	72.41%	-29.08	0.510	0.102	-2.12	0.039	S				

↑- Increase, ↓- Decrease, HS-Highly Significant, S-Significant, IS- Insignificant

In Group-I

- Highly significant changes have been assessed in severity of headache with p<0.001 providing a relief of 46.80%.
- Extremely significant changes have been assessed in frequency of headache with p-value<0.001 and relief of 48.83%.
- Highly significant changes have been assessed in duration of headache with p-value<0.001 and relief of 40.90%.
- Statistically highly significant changes have been assessed in nausea with p-value<0.001 providing a relief of 47.22%. Highly significant changes have been assessed in vomiting with p<0.001 and relief of 48.57%.
- Highly Significant changes have been assessed in vertigo with p-value<0.001 providing a relief of 45.45%.

Statistically highly significant changes have been assessed in aura with p-value<0.001 providing a relief of 43.33%.

In Group-II

- Highly significant changes have been assessed in severity of headache with p<0.001 providing a relief of 78.43%.
- Extremely significant changes have been assessed in frequency of headache with p-value<0.001 and relief of 79.54%.
- Highly significant changes have been assessed in duration of headache with p-value<0.001 and relief of 81.08%.
- Statistically highly significant changes have been assessed in nausea with p-value<0.001 providing a relief of 78.37%.
- Highly significant changes have been assessed in vomiting with p<0.001 and relief of 87.5%.</p>

- Highly Significant changes have been assessed in vertigo with p-value<0.001 providing a relief of 64.44%.
- Statistically highly significant changes have been assessed in aura with p-value<0.001 providing a relief of 72.41%.

Intergroup comparison revealed that there was statistically significant difference between the therapy

given in Group-I and Group-II. However, the therapy given in Group-II (*Pathyadi Kwatha* and *Anu Taila Nasya*) proved more significant than Group-I (*Pathyadi Kwatha*) in relieving various features like severity, duration, frequency of headache, nausea, vomiting, vertigo, aura.

Effect of Therapy on Biochemical and Haematological Parameters
--

	Group-I and Group-II												
S No.	Variable	Group	Ν	Mean		Change in	SD+	SE+	"t"	Р	Significance		
				BT	AT	Diff.	%			value	value		
1	Hb	G-I	25	11.83	11.66	0.172	1.45%	1.540	0.308	1.901	0.069	IS	
		G-II	25	11.900	11.76	0.136	1.14%	1.622	0.324	1.797	0.085	IS	
2.	TLC	G-I	25	7.015	6.469	0.546	7.78%	1.515	0.303	2.027	0.054	IS	
		G-II	25	6.936	6.623	0.314	4.51%	1.627	0.325	1.612	0.120	IS	
3.	FBS	G-1	25	94.320	92.600	1.720	1.82%	7.576	1.515	1.021	0.317	IS	
		G-II	25	95.120	93.560	1.560	1.64%	6.579	1.316	1.381	0.180	IS	
4.	ESR	G-1	25	16.440	15.720	0.720	4.37%	6.520	1.304	1.341	0.193	IS	
		G-II	25	15.480	14.840	0.640	4.13%	6.526	1.305	1.039	0.309	IS	
5.	SGOT	G-1	25	26.400	25.200	1.200	4.54%	7.853	1.571	1.317	0.200	IS	
		G-II	25	28.038	26.423	1.615	5.76%	6.109	1.198	1.605	0.121	IS	
6.	SGPT	G-1	25	27.160	25.520	1.640	6.04%	6.511	1.302	1.578	0.128	IS	
		G-II	25	28.400	27.000	1.400	4.93%	5.944	1.189	1.329	0.196	IS	
7.	B.Urea	G-1	25	26.360	26.240	0.120	0.45%	3.365	0.673	1.809	0.083	IS	
		G-II	25	27.080	26.800	0.280	1.03%	4.425	0.885	1.371	0.183	IS	
8.	S.Creat.	G-1	25	0.848	0.836	0.0120	1.42%	0.243	0.0487	1.141	0.265	IS	
		G-II	25	0.864	0.860	0.004	0.46%	0.230	0.045	1.000	0.327	IS	

It was found that all the Biochemical and haematological parameters were within normal limits before and after the trial

Intergroup Comparison of Hematological & Biochemical Parameters

S.No.	Variables	% Change		Diff. in	SD+	SE+	"t"	"P"	Sig.
		G-1	G-II	% age			value	value	
1.	Hb	1.45%	1.14%	0.31%	0.452	0.090	0.305	0.762	IS
2.	TLC	7.78%	4.51%	3.27%	1.332	0.266	0.751	0.456	IS
3.	FBS	1.82%	1.64%	0.18%	8.480	1.696	0.216	0.830	IS
4.	ESR	4.38%	4.13%	0.24%	2.634	0.527	0.148	0.883	IS
5.	SGOT	4.54%	5.76%	1.22%	4.534	0.907	-0.173	0.864	IS
6.	SGPT	6.04%	4.93%	1.11%	5.195	1.039	0.530	0.598	IS
7.	B. Urea	0.46%	1.03%	0.57%	0.332	0.066	-0.745	0.460	IS
8.	S. Creat.	1.42%	0.46%	0.96%	0.052	0.010	0.711	0.481	IS

All the hematological parameters were within normal limits before and after the trial in both the groups. There was no statistically significant difference between the two trial groups

DISCUSSION

Mode of Action of Trial Drug

Majority of the ingredients of *Pathyadi kwatha* possessed *Ushna veerya* and *Madhura vipaka* whereas the predominant *Doshkarma* of the ingredients was

Tridoshaghna so under the effect of all the virtues narrated above *Pathyadi kwatha* normalizes the vitiated *Tridosha*.

It is reported that *Haritaki, Bibhitaki, Amalaki, Bhunimba, Haridra, Guduchi,* and *Nimba* have Antiinflammatory action while *Amalaki, Haridra,* and *Guduchi* are CNS depressant whereas *Guduchi* and *Nimba* are having analgesic effect. 50% of the drug

mentioned here are *Tridoshashamak* in *Pathyadi kwath.*

Anutaila is Vataghna, Bruhana and Snehan. It is Sukshma srtotogami. After administration of Anutaila Nasya profuse secretions occur. Kapha dosha invaded in chest, head, pallet and throat. Firstly Anutaila Nasya mobilise Kaphadi doshas from these Sthanas and secondarily it acts there as Bruhana. Most importantly oil (Sneha) reaches to minute Srotasas and strengthening the ligaments and tendons of upper part of the body. Thus it is helpful in headache, rhinitis, migraine and trembling of neck. It increases the efficiency of Indriyas e.g. Nasa, Karna, Netra.

In *Charaka Samhita* regular use of *Anutaila* dissolved all *Doshas* and expelled out them from the site and ultimately it improves efficiency of *Indriya*.

Nasya Mode of Action नासा हि शिरसो द्वारम् ।

Nasa is considered a gateway to brain and other vital centers in the head. *Nasya karma* improve airflow and oxygen exchange in the body, thereby also clearing all the morbid *Doshas*. *Doshas* provoked in *shirah* as a result of the drug's irritating effect, which cause the brain's blood circulation to rise and ultimately these morbid *Doshas* are expelled out by the nasal discharge, tears and by salivation.

CONCLUSION

After the careful and critical review of the results obtained from the study, following conclusions can be drawn:

- The therapy given in Group-II (*Pathyadi Kwatha and Anu Taila Nasya*) proved more significant in relieving various features like severity, duration, frequency of headache, nausea, vomiting, vertigo, aura.
- However, the therapy given in Group-I (*Pathyadi Kwath*) was less effective in relieving various features like severity, duration, frequency of headache, nausea, vomiting, vertigo, aura.

- In Group-II (*Pathyadi Kwath* and *Anu Taila*), statistically highly significant reduction was seen in various features like severity, duration, frequency of headache, nausea, vomiting, vertigo, aura.
- No considerable change in haematological and biochemical investigations was noted as a result of the therapy in both the groups.
- No adverse effects of the trial drugs were observed during the study period.
- Though, clinically combined therapy in Group-II proved to be better in the management of *Ardhavabhedaka* on the basis of subjective parameters but statistically there was no significant difference in the effect of both the therapies on haematological and biochemical parameters.
- *Pathyadi kwath* and *Anu taila nasya* proved to be a good effective therapy in curing the disease.

It can be concluded that there is statisfying scope of suggesting these Ayurvedic management as safe and effective procedure for *Ardhavbhedaka*.

REFERENCES

- Sushruta Sushruta Samhita edited by Dr.Anant Ram Sharma, Chaukhamba Surbharati Prakashana, Varanasi, 2009. Sharirasthanam.
- 2. Sushruta, Sushruta Samhita with the Nibandh sangraha sanskrita commentary by Dalhanacharya, Chaukhambha Surbharti Publication, Varanasi, 2014, Uttartantra chap. 25/15 page-655.
- 3. Archith Boloor Exam Preparatory Manual for Udergraduates Medicine 4th edition, chapter-16 neurology, page no.1128.
- 4. International headache society (IHD)2004-ICHD2.
- Archith Boloor Exam Preparatory Manual for Udergraduates Medicine 4th edition, chapter-16 neurology, page no.1128.
- 6. Sharangdhar Samhita 'jivanprada' intepretated by Dr. Srimati Shelja srivastava, Chaukhamba Orientalia, Varanasi, 2005, Madhyamkhanda, 2/145-147, p 157.
- 7. Ashtang hridya sutra sthan 20/37-38.

Cite this article as:

Rani Babita, Chaudhary Vijay, Dharmani Geetika. A Clinical Study to Evaluate the Effect of Pathyadi Kwatha and Anu Taila Nasya in the Management of Ardhavbhedaka w.s.r. to Migraine. AYUSHDHARA, 2024;11(6):104-111. https://doi.org/10.47070/ayushdhara.v11i6.1835 Source of support: Nil, Conflict of interest: None Declared *Address for correspondence Dr. Rani Babita MD Scholar, PG Dept of Kayachikitsa, R.G.G.P.G. Ayurvedic College & Hospital, Paprola, Himachal Pradesh, India. Email: babitakatnoria5151@gmail.com

Disclaimer: AYUSHDHARA is solely owned by Mahadev Publications - A non-profit publications, dedicated to publish quality research, while every effort has been taken to verify the accuracy of the content published in our Journal. AYUSHDHARA cannot accept any responsibility or liability for the articles content which are published. The views expressed in articles by our contributing authors are not necessarily those of AYUSHDHARA editor or editorial board members.

AYUSHDHARA | November-December 2024 | Vol 11 | Issue 6