

Journal of **Ayurveda and Integrated Medical Sciences**

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An International Journal for Researches in Ayurveda and Allied Sciences



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Journal of

Ayurveda and Integrated Medical Sciences

ORIGINAL ARTICLE

November 2024

Management of Kashtartava (Dysmenorrhea) with Vishwadi Kwatha: An Open Labelled Single -Arm **Clinical Trial**

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ABSTRACT

Introduction: Kashtartava (Dysmenorrhea) is a commonly reported menstrual disorder which affects the working ability and quality of life of the woman. Due to in discreet diet and lifestyle, young women are more liable to get afflicted with this disorder in present era. This trial was planned to evaluate the effect of Vishwadi Kwatha which is an unexplored formulation in the management of dysmenorrhoea. Materials and Methods: 18 patients fulfilling the inclusion criteria were selected from the OPD of Prasutitantra & Streeroga, of the institution (3 drop outs). Oral administration of Vishwadi Kwatha in a dose of 40ml, twice a day, before meals was given for 1 month. The effect of therapy was assessed by change in the scores of assessment criteria including Visual Analogue Scale. Follow up was done for 1 month. Result: Statistically highly significant (p<0.001) results were obtained in both the duration (75.60 %) and severity (73.68% relief) of menstrual pain and also in associated symptoms like Aruchi(93.75% relief), and Bala-Bhramsha (91.17% relief). The mean VAS score of 7.467±1.407 before treatment was reduced to 2.333±0.9 after treatment. **Discussion:** Vishwadi Kwatha was mentioned in Shoola Prakarana of Bhaishajyaratnavali as Sadya Shoolahara. The formulation is having Vatanulomana, Dipana-Pachana, Artavajanana, Kaphahara, and Shrotoshodhana properties which will help the easy expulsion of properly formed Artava through the unobstructed channels by correcting the Vimarga Gati of Vayu. Conclusion: Oral administration of Vishwadi Kwatha was found to be effective in the management of Kashtartava and recommended for further research.

Key words: Kashtartava, Dysmenorrhea, Vishwadi Kwatha, Menstrual cramps, Shoola

INTRODUCTION

Dysmenorrhea is a commonly reported menstrual disorder which due to its incapacitating nature affects the working ability and quality of life of the women. It has a detrimental effect on the individual as well as the communities in terms of school and work absenteeism,

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Submission Date: 16/10/2024 Accepted Date: 24/11/2024

Access this article online **Quick Response Code**

Website: www.jaims.in

DOI: 10.21760/jaims.9.11.2

interference with daily living activities, limitation in socialization medication hospitalization.[1] The worldwide prevalence of dysmenorrhoea ranges from 45% to 95% among the females of reproductive age, with 2% to 29% experiencing severe pain. [2,3] A greater prevalence (70% to 90%) is generally reported among younger women (age <24 years).[4] Painful menstruation with associated symptoms like bloating of abdomen, nausea, vomiting, diarrhoea, constipation, tiredness, nervousness etc. can be considered under the terminology Kashtartava which needs special medical attention as it degrades the quality of life of women. The main cause of *Kashtartava* is unhealthy and faulty dietary habits, sedentary lifestyle, suppression of natural urges, etc. which lead to obstructions in Srotas (bodily channels) and Vimarga Gamana (improper movement) of Apana Vayu leading to manifestation of symptoms of Kashtartava. In

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conventional medical system, dysmenorrhea is treated by NSAIDs, antispasmodic, analgesics, OCP's etc. which cannot provide a permanent relief and their long-term use can cause many side effects also. But immediate symptomatic relief is always demanded by the patients especially in case of pain predominant conditions like dysmenorrhoea. Even though Ayurveda aims at eliminating the root cause of the diseases through its holistic approach, immediate relief from symptoms is also a matter of concern. The classical reference of the trial drug Vishwadi Kwatha^[5] which is an unexplored formulation in the field of management of Kashtartava, emphasizes that it will provide immediate pain relief (Sadya Shoolahara). The ingredient drugs are easily available and cost effective and they are having the properties to correct the pathology of Kashtartava. Thus, a clinical trial was planned to evaluate the efficacy of Vishwadi Kwatha in the management of Kashtartava.

MATERIALS AND METHODS

Selection of patients:

Patients of age group 12-30 years presenting with signs and symptoms of *Kashtartava* i.e., painful menstruation with or without associated complaints like nausea, vomiting, constipation, breast tenderness, headache, light headedness, anorexia, nervousness etc. were screened and enrolled from the OPD of department of Prasuti Tantra and Stree Roga, Murlidhar Ayurved College Hospital, Rajkot. Patients who are the pre-diagnosed cases of pelvic pathologies like uterine fibroid, adenomyosis, ovarian cyst etc, congenital/ acquired anomalies and malignancy of uterus or genital tract, those who are kknown cases of heavy menstrual bleeding, acid peptic disease, peptic ulcer, gastro-esophageal reflux disorder, or any other bleeding disorders were excluded from the study.

Preparation of Drug:

The raw drugs for the preparation of trial drug *Vishwadi Kwatha* were collected from the authentic sources. The pharmacognostical study and pharmaceutical analysis of the trial drug were carried out from the concerned laboratories of B.K.Mody

Government Pharmacy college, Rajkot. The raw drugs were made into *Yavakuta* (coarse powder) from the pharmacy of Murlidhar Ayurved College, and subjected to air-tight packing in polythene bags. *Shodhana* (purification) of *Hingu* was done from the department of *Rasashastra* and *Bhaishajya Kalpana* as per the classical reference. The ingredients of *Vishwadi Kwatha* were as per given in table 1.

Table 1: Ingredients of Vishwadi Kwatha

Name of the drugs	Latin name	Part used	Total quantity
Eranda	Ricinus communis	Root	1 part (≈6.67g)
Shunthi	Zingiber officinale	Rhizome	1 part (≈6.67g)
Yava	Hordeum vulgare L.	Seed	1 part (≈6.67g)
Hingu (fried in ghee)	Ferula asafoetida	Gum resin	2 Rati (250 mg)
Sauvachala Lavana	Black salt		2 Rati (250 mg)

Method of preparation of Vishwadi Kwatha

Coarse powder (*Yavakuta*) of *Erandamoola*, *Shunthi* and *Yava* in equal quantity (total 20gm) boiled with 16 parts of potable water (320 ml) and reduced to 1/8th part (40ml).^[6] It is added with 250 mg of *Hingu* (which is fried with ghee) and 250 mg of *Sauvarchala Lavana* as *Prakshepa*. Patients were advised to prepare the *Kwatha* (decoction) as per the above-mentioned method. Freshly prepared *Kwatha* was advised to be taken in a dose of 40ml twice a day, before food, for 1 month. *Pathya Apathya* (Do's and Don'ts) chart was provided to the patients in local language.

Collection of data:

The study was started after getting the approval from institutional ethics committee (IEC). Informed written consent was taken from each patient before enrolling to the clinical trial. A specially prepared proforma was used to record the data of patients before and after treatment. Effect of therapy was assessed based on the

scores of visual analogue scale (VAS)^[7] for severity of pain before and after treatment as well as the grading of other subjective parameters as per the assessment criteria^[8] given in table no. 2

Table 2: Assessment Criteria for Symptoms of Kashtartava

Criteria	Grading				
	0	1	2	3	
Duration of pain	No pain	Up to 24 hours	Up to 48 hours	Up to 72 hours	
Severity of Pain	Menstrua tion is not painful and daily activity remains unaffecte d	Menstrua tion is painful daily activity is not affected no analgesic required.	Menstrua tion is painful and daily activity affected. Oral analgesics required.	Menstruat ion is painful and daily activity affected, need to take off from work or school. Oral analgesics not effective need to go to hospital or take injectable	
Aruchi (Anorexia)	Absent	Loss of appetite without alteration in eating habits.	Oral intake decrease d without significant weight loss, dehydrati on or malnutriti on	Inadequat e oral caloric or fluid intake, tube feeding, TPN or hospitaliza tion indicated	
Chardi (Vomiting)	Absent	1 episode/2 4 hours, Interventi on not indicated	2-5 episodes/ 24-hour, Outpatien t IV hydration , medical interventi	>5 episodes/ 24 hr. Tube feeding, TPN or hospitaliza	

			on needed	tion indicated.
Vibandha (Constipatio n)	No constipati on, occasiona I or intermitte nt symptom s.	Frequenc y once in a day with passage of very hard stool	Bowel evacuatio n on 2 -3 days, regular laxative or enema not useful	Obstipatio n with manual evacuatio n indicated.
Bala- Bhramsha (Fatigue)	No fatigue	Relieved by Rest		
Shira Shula (Head ache)	No headache	Mild pain persists for less than 6 hours.	Moderate pain limiting instrumen tal ADL*	Severe pain, limiting selfcare ADL.
Bhrama (Dizziness)	No dizziness	Mild unsteadin ess or sensation of movemen t, 1-2 times during menstrual period	Moderate unsteadin ess or sensation of movemen t, limiting instrumen tal ADL.	Severe unsteadin ess or sensation of movement , limiting instrumen tal ADL
Pindikodvesh tana (Calf muscle cramps)	No cramps	Mild pain persists for less than 6 hours.	Moderate pain limiting instrumen tal ADL	Severe pain, limiting selfcare ADL

^{*}ADL- Activities of Daily Life.

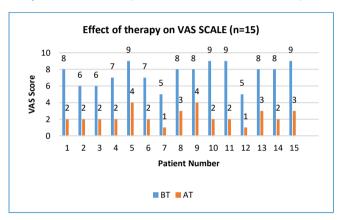
The data of total 15 patients who had completed the treatment protocol along with follow up were considered for analysis of effect of therapy.

RESULTS

Effect of therapy on pain as per VAS (Visual Analogue Scale) Scores:

The mean VAS score was 7.467±1.407 before treatment and it was reduced to 2.333±0.9 after treatment. The distribution of VAS Score among 15 patients, before and after treatment is shown in the graph no:1

Graph 1: VAS Score (before and after treatment)



Highly significant difference(p<0.001) was observed in VAS Score of severity of pain before and after treatment as shown in table no:3.

Table 3: Effect of therapy on VAS Scores

Mean ± SD		Mean	t	Р	Significan
ВТ	AT	Differenc e			ce
7.467 ± 1.407	2.333±0.9 00	5.133±1.0 60	18.75 4	<0.00 1	HS

*HS: Highly Significant

The percentage of relief in different symptoms of *Kashtartava* is given in table no. 4.

Table 4: Effect of therapy on chief complaints and associated complaints (n=15)

N*	Assessment	Mean Score		Mean	Percentage
	Criteria	ВТ	AT	Difference	of Relief
15	Duration of pain	2.73	0.67	2.06	75.60 %
15	Severity of pain	2.53	0.67	1.86	73.68%
11	Aruchi	1.06	0.06	1	93.75 %

6	Chardi	0.733	0.2	0.53	72.72%
9	Vibandha	0.66	0.13	0.53	80%
14	Bala-bhramsh	2.26	0.2	2.06	91.17%
8	Shirashoola	1	0.13	0.86	86.67%
4	Bhrama	0.4	0	0.4	100%
8	Pindikodweshtana	1.067	0.2	0.86	81.25%

*N= Number of patients presenting with the symptom

Wilcoxon Signed Rank test was applied to find out the significance of difference between the scores given to the symptoms before treatment (BT) and after treatment (AT) as per the assessment criteria. Statistically highly significant (p<0.001) differences between the scores were obtained in duration of pain, severity of pain, *Aruchi*, and *Bala-Bhramsha*. Significant (p<0.05) results were obtained in *Chardi*, *Shirashoola* and *Pindikodweshtana*. The difference was insignificant in the scores of *Vibandha* and *Bhrama*.

DISCUSSION

Ayurvedic approach towards dysmenorrhea differs from the conventional medical approach which target only pain by controlling prostaglandin synthesis through nonsteroidal anti-inflammatory drugs or by suppression of ovarian function through oral contraceptives. Ayurveda addresses the subtle and holistic mechanisms of digestion, metabolism, formation of the menstrual blood and the process of its expulsion which all are inter-connected. The alteration in any phase of these can create an inflammatory environment in which pain can be manifested as a main symptom leading to Kashtartava. Thus, the first focus of Ayurvedic management of Kashtartava is to correct Agni (digestive fire) and prevent the formation of Ama. This can lead to formation of "Shuddha Artava" which is easy to be expelled. Samprapti(etiopathogenesis) of Kashtartava mainly depends on the vitiation of Vata Dosha with or without the involvement of vitiated Kapha Dosha. The line of treatment should be Dipana-Pachana (digestive), Artavajanana (promoting the production of Artava), Kaphahara (alleviating Kapha), Shrotoshodhana (clearing the channels) Vatanulomana (correction of the direction/function of

Vata) which will help the easy expulsion of properly formed Artava through the unobstructed channels by the coordinated activity of Vayu. The main causative factors for vitiation of Vata are directly involved in the pathogenesis of Kashtartava. In this study, excessive use of Katu and Madhura Rasa, faulty dietary habits like Samashana (mixing the wholesome and unwholesome foods), improper sleep, lack of Vyayama (exercise) and Vata- Pitta Prakruti (physical constitution) were identified as the main risk factors for development of Kashtartava. Excessive use of Katu Rasa may be leading to Vata- Pitta Prakopa and excessive use of Madhura Rasa may be leading to Kapha Prakopa leading to the Avarana Samprapti of Kashtartava. A previous research on Kashtartava also reported the lack of Vyayama (physical exercise) in majority (74.19 %) of patients. [9] Another research studv^[10] on Kashtartava had reported that majority (66.6%) of the patients were having Vata -Pitta Prakriti which is similar to the findings of the present study. The commonest associated complaint was found to be Bala-Bhramsha (unusual tiredness) which was reported by 94.44% of the patients. 77.77% of patients reported Aruchi (anorexia) as an associated complaint.61.11% were having Pindikodweshtana (calf muscle cramps), 50% were having Vibandha (constipated bowel) during menstrual period. 44.44% of patients reported Shirashoola (head ache) and Chardi (vomiting) as associated complaints. 22.22% of patients were complaining of Bhrama (giddiness) during menstrual period. In one of the previous studies, the commonest associated complaint was found to be nausea (58.3%) and also 35% patients reported Aruchi (anorexia)[10] Another study also reported nausea (33.1%,) as the commonest associated complaint followed by vomiting (21.2%).[11] These indicate the prominent role of Kapha Dosha in the Samprapti of Kashtartava along with the Vata Dosha.

Probable mode of action of *Vishwadi Kwatha* in *Kashtartava*

Majority of the ingredient drugs of *Vishwadi Kwatha* are having *Ushna Veerya* (hot potency) and predominant *Rasa* (lingual tastes) are *Katu* (pungent),

Kashaya (astringent) and Madhura (sweet). Eranda and Shunthi are having Madhura Vipaka and the rest of the drugs including *Prakshepa Dravya* are having *Katu* Vipaka. Eranda, Hingu and Sauvarchala Lavana are having Snigdha Guna while Shunthi and Yava are Rooksha. Thus, the ingredients of Vishwadi Kwatha as well as, the formulation are mainly having Vata-Kapha Pradhana Tridoshahara action in the body. Shunthi is having the properties like Deepana, Rochana, Vrushya, Vibandhanut, Shophahara etc. which are helpful in breaking the Samprapti of Kashtartava. It has been widely used in gynaecological disorders. Various components of ginger like Gingerol, Shogaol, Paradol, Zingerones, and Gingerdione have anti-inflammatory pharmacological actions and act as a potent inhibitor of cyclooxygenase (COX-2), resulting in the inhibition of prostaglandins and leukotriene biosynthesis.[12] A systematic review published in 2022, on effectiveness of ginger compared with non-steroidal antiinflammatory drugs (NSAIDs), suggested that the usage of ginger up to two grams per day in divided doses of powder or dietary form for three days from the first day of the menstrual cycle is safe and effective for primary dysmenorrhoea. [13] Ginger has been shown to share pharmacological properties with NSAIDs and recommended as it suppresses PG synthesis through the inhibition of cycloxygenase-1 and Cox 2 and has fewer side effects than NSAIDs.[14] Ginger is also found to be as effective as mefenamic acid on pain relief in primary dysmenorrhea and recommended as an alternative treatment for primary dysmenorrhea.[15] Eranda Moola is considered as the best drug for pacifying Vata and having a targeted action at the site of Apana Vayu i.e., Pakwashaya, Kati, Shroni, Vasti, Garbhashaya etc. It is especially indicated in diseases like Udavarata, Gulma, Anaha, Vasti-Shoola, Kati Shoola etc. So, it is having the prime role in Anulomana of Apana Vayu which helps in easy expulsion of menstrual blood in case of Kashtartava. Different clinical studies using Erandamoola Kwatha (decoction), Erandamoola Arka (distilled formulation) etc. have proven its efficacy in the management of primary dysmenorrhoea. [16,17] Yava is especially recommended in the diet as part of Rajaswala Paricharya for improving menstrual health and prevention of

menstrual disorders. It is considered as Pathya (wholesome diet) for all kinds of Yoni Vyapad (gynaecological disorders). Laghu-Ruksha and Lekhana properties are helpful in removing excessive Kleda (accumulation of liquid waste) from the body which facilitate the process of expulsion of menstrual fluid and its Madhura rasa and Sheeta Veerya can contribute in increasing Dhatubala (strength of structural component of the body).[18] Hingu is having the properties like Deepana, Rochana, Chedana, and Anulomana. It is especially indicated in diseases like Shoola, Adhmana, Gulma etc. which are related to the features of Kashtartava. Recent research studies indicate the effectiveness of Shodhita Hindu in the management of primary dysmenorrhoea.[19] The chemical compounds like Azulene, ferulic acid, luteolin and umbelliferones present in Hingu were found to be responsible for its anti-spasmodic and antiprostaglandin activity.[20] The anti-inflammatory, analgesic and antispasmodic effects in asafoetida suggests a NSAID-like mechanism and a randomized comparative trial showed significant pain reduction on day one compared with mefenamic acid and suggested as an alternative for it in cases of primary dysmenorrhea.[21] Sauvarchala Lavana is especially Deepana-Pachana, Rochana and Vatanulomana in nature. Thus, the prominent Katu Rasa of the formulation may act on the Jatharagni level as Deepana-Pachana and prevent the formation of Ama which leads to the proper formation of Artava. Teekshna Guna of Eranda, Shunthi and Hingu may help to penetrate the Srotas and Lekhana property of Yava remove the Sanga (obstructions) in Srotas which facilitates the expulsion of Artava (menstrual blood). The Vatanulomana property of the drugs leads to the correction of Vimarga Gati of Vayu. All these ultimately results in relieving the symptoms of Kashtartava by promoting easy expulsion of menstrual blood.

CONCLUSION

Kashtartava can be considered as a symptom-complex with the pathological origin of Agnidushti and formation of Ama leading to Sanga in Srotas resulting in impaired function (Vimarga Gamana) of Vata. The line of treatment for Kashtartava should be Dipana-

Pachana, Artavajanana, Kaphahara, Shrotoshodhana and Vatanulomana along with Nidanaparivarjana. Drugs having the properties like Shoolaprashamana and Vedanasthapana are useful in the management of Kashtartava. The protocol of oral administration of Vishwadi Kwatha in a dose of 40ml twice a day, before food, for a duration of 1 month was found to be safe and effective in the management of Kashtartava and it is recommended for further multi-center trials with large sample size.

Acknowledgement

We would like to extend our sincere gratitude to Shree Yadunandan Education Trust, Murlidhar Ayurved College, Rajkot and Central Council for Research in Ayurvedic Sciences (CCRAS), New Delhi, that have provided financial support for this research. We are deeply grateful to our mentor, Prof. (Dr.) Prajakta Tomar (Ex.Principal, Murlidhar Ayurved College, Rajkot.) for her exceptional guidance and unwavering support throughout this research endeavor.

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How to cite this article: Anagha Sivanandan, Metaliya Denish R. Management of Kashtartava (Dysmenorrhea) with Vishwadi Kwatha: An Open Labelled Single -Arm Clinical Trial. J Ayurveda Integr Med Sci 2024;11:8-14. http://dx.doi.org/10.21760/jaims.9.11.2

Source of Support: Nil, **Conflict of Interest:** None declared.

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