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## **Research Article**

# A COMPARATIVE CLINICAL STUDY OF *HINGVADI CHURNA* AND *RAJAH-PRAVARTANI-VATI* ON *KASHTARTAVA* W.S.R TO PRIMARY DYSMENORRHOEA

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**KEYWORDS:** *Kashtartava*, Primary dysmenorrhoea, *Hingvadi Churna*, *Rajahpravartini Vati*.

### **ABSTRACT**

Primary dysmenorrhoea can be correlated with Kashtartava which is characterized by painful menstruation. According to Ayurveda, pain is an indication of *Vata Vikriti – 'Na hi vaatadrite Shoolam'*. *Apana Vayu* has been given prime importance in Gynecological disorders. Normal menstruation is the function of the *Apanavata*, so painful menstruation is considered as Apanavatadushti. Vyana Vata has control over the muscles which brings about actions such as contraction, relaxation, extension, flexion etc. According to Acharya Charaka, Vata plays a key role in all types of Yoni Roga. As Vata is the main causative factor, it should be treated first. According to Acharya Vagbhata all measures capable of suppressing Vata are indicated. Till date, no successful advances have been made in the management <mark>of Primary dysmen</mark>orrhoea by conventional medicine. The best evidence-based treatments are NSAIDs and hormonal contraceptives but they have a lot of side effects. Owing to the gravity of the situation, need is felt for search of safe/more effective, palatable oral dosage forms to reduce pain during menstrual period. A systematic review of studies in developing countries performed by Harlow and Campbell has revealed that about 25-50% of adult women and about 75% of adolescents experience pain during menstruation. It is a randomized comparative clinical trial with 30 patients fulfilling the inclusion criteria were selected for the trial. The selected patients were randomly divided into 2 groups, 15 patients each. The duration of treatment was from 7<sup>th</sup> day due date of menstrual cycle to next menstrual cycle for 60 days. The assessment was done after each cycle on 5th day of cycle and follow-up for the next menstrual cycle. The test of significance showed that the efficacy of Hingvadi churna is more than Rajahpravartini vati in Kashtartava.

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#### INTRODUCTION

Dysmenorrhoea is the most common gynaecological problem faced by women during their adolescence which causes significant discomfort and anxiety for the woman as well as family. Dysmenorrhoea itself is not life threatening, but is found to have a profound impact on the daily activities and may result in missing work or school, inability to participate in sports or other activities.

Thereby, it may accentuate the emotional distress brought on by the pain<sup>[1]</sup>.

Not less than 50% of women are said to experience some discomfort in relation to menstruation, and 5-10% of girls in their late teens and early twenties are incapacitated for several hours each month. Estimates vary widely because of difference in the criteria of dysmenorrhoea and because most investigations concern only one

section of the community. The incidence of dysmenorrhoea is affected by social status, occupation and age, so groups of school girls, college students, factory workers, and women members of armed forces each provide different statistics.<sup>[2]</sup>

In Ayurveda dysmenorrhoea is not described as a separate disease entity. It can be because women were not suffering much from this problem those days because of pin pointed *Ritucharya* and *Rajasvalacharya*. Though word *Kashtartava* is not separately described as a disease in Ayurvedic classics there are many other diseases in which *Kashtartava* is considered and is described as a symptom. Hence, this study is particular about the description regarding *Kashtartava* on the basis of scattered classical references.

## AIMS AND OBJECTIVES

- To study aetiopathogenesis of *Kashtartava* and to explore the clinical consequences.
- To evaluate the effect of *Hingvadi Churna* in dysmenorrhoea.
- To evaluate the effect of the *Rajah Pravartini vati in* dysmenorrhoea.
- To compare the efficacy of trial drugs in the management of dysmenorrhoea.

#### MATERIAL AND METHODS

## **Ethical Clearance**

**Design of the Study:** The method adopted in present study is randomized, clinical, open study.

**Selection of Cases**: Total 30 clinically diagnosed and confirmed cases of Primary Dysmenorrhoea were registered from the O.P.D./I.P.D., N.I.A. Hospital, Jaipur.

**Inclusion Criteria:** Participants coming with chief complaint of *Kashtartava* with scanty or average amount of menses, Participants in age group of 14 to 30 years, Participants suffering with *Kashtartava* for more than 2 consecutive cycles.

**Exclusion Criteria:** Participants suffering from secondary dysmenorrhoea, STIs, systemic diseases, Participants having organic pathology of uterus and adnexa e.g. Fibroid uterus, carcinoma of endometrium etc, Participants having Dysfunctional Uterine Bleeding, Participants with H/O Thyroid dysfunction.

**Investigations:** Laboratory investigations were carried out before treatment to rule out any other pathological conditions

**Haematological:** CBC, HIV, HbsAg, VDRL, Random blood sugar, Monteux test (if needed), Thyroid profile (if needed).

**Urine:** Routine and microscopic examination.

**Sonography (U.S.G.):** For uterine and adnexal study (if needed) to rule out any pathology or lesion.

**Posology:** Patients included in the present study are randomly divided into following two groups:

	=	
	Group-A	Group-B
Drug	Hingvadi Churna	Rajah-Pravartini-
		Vati
Dose	3gm twice a day	500mg twice a
	with lukewarm	day with
	water	lukewarm water
Route	Oral	Oral
Duration	For two	For two
The state of	consecutive	consecutive
	menstrual cycle/60	menstrual
ARP	days	cycle/60 days

## **Duration for clinical trial**

The trial will be carried out for 60days in two consecutive menstrual cycles.

## Follow up study

Case will be followed during trial fortnightly for 2 consecutive menstrual cycles. Clinical assessment will be done after completion of third consecutive menstrual cycles.

## Criteria of Assessment

**Assessment of Pain (Dysmenorrhoea):** A special Scoring Pattern was applied in symptoms:

Pain Intensity	Grade
Absent	0
Mild (pain do not interfere with daily activity)	1
Moderate (daily activity hampers, relieves with analgesics)	2
Severe (do not relieved by analgesics)	3

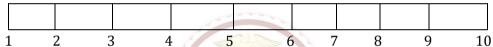
Duration	Grade
Absent	0
Pain for one day (for few hours)	1
Pain for one day (for whole day)	2
Pain for>or=2 days	3

Nature of Pain	Grade
Absent	0
Occasional	1
Dull	2
Spasmodic	3

Menstrual Flow Duration	Grade
1 day	0
< or =2 days	1
3-4 days	2
> or =5 days	3

Menstrual Flow Amount	Grade
Scanty (spotting)	0
Average (1-2 pads)	1
Normal (3-4 pads)	2
Excessive (5 pads or more)	3

# **Visual Analog Scale**



Worst pain

Imaginable and further it is assessed as follows

7 - 10	Severe Pain	Grade 0
6 - 4	Moderate Pain	Grade 1
1 - 3	Mild Pain	Grade 2
0	No Pain	Grade 3

# **Associated complaints**: Total 10 complaints

7 -10	grade 0
4 - 6	grade 1
1 - 3	grade 2
0	grade 3

# Rating Scale for the Assessment of Improvement in the Symptoms After Therapy Percentage of Relief Effect

No relief	0% relief in the signs and symtoms
Mild relief	(1 to $\leq$ 25%) relief in the signs and symtoms
Moderate Relief	(>25 to $\leq$ 50%) relief in the signs and symtoms
Significant relief	(>50 to $\leq$ 75%) relief in the signs and symtoms
Excellent Relief	(>75%) relief in the signs and symtoms

## **Statistical Evaluation of results**

Further the effect of the treatment of signs and symptoms were analyzed statistically by Mean, SD, and SE, 'paired Wilcoxon signed rank test 'and' unpaired Mann-Whitney test for non-parametric study.

# **OBSERVATIONS AND RESULTS**

Table 1: Shows the pattern of clinical recovery in various Subjective Parameters of *Kashtartava* in 15 patients treated with *Hingvadi Churna* orally- Group A by Wilcoxon-ranks test matched-pairs signed-ranks test

S No	Symptoms	Mean		Dif.	% of	SD	SE	P	Results
		BT	AT		Relief				
1.	Pain Intensity	2.40	3.40	1.00	83.33%	0.654	0.169	< 0.0001	H.S.
2.	Pain Duration	2.33	0.40	1.93	82.85%	0.798	0.206	< 0.0001	H.S.
3.	Nature of Pain	2.53	0.73	1.80	71.06%	0.676	0.174	< 0.0001	H.S.
4.	Flow Duration	1.60	1.73	-0.13	8.33%	0.639	0.165	> 0.05	N.S.
5.	Flow Amount	1.46	1.53	-0.06	4.54%	0.593	0.153	> 0.05	N.S.
6.	Associated Symptoms	2.06	0.53	1.53	74.16%	0.639	0.165	< 0.0001	H.S.
7.	VAS Scale	2.60	0.60	2.00	76.92%	0.925	0.239	< 0.0001	H.S.

Highly significant results are shown on Pain Intensity, Pain Duration, Nature of Pain, Associated symptoms and VAS Scale. Results on Flow Duration and amount of flow were not significant.

Table 2: Shows the pattern of clinical recovery in various Associated Symptoms of *Kashtartava* in 15 patients treated with *Hingvadi Churna* orally- Group A by Wilcoxon matched-pairs signed-ranks test

S.No	Symptoms	Mean	Mean		% of	SD	SE	P	Desults
		BT	AT	Dif.	Relief	2D	SE	P	Results
1.	Nausea	0.80	0.13	0.66	83.33%	0.48	0.12	< 0.001	H.S.
2.	Vomiting	0.40	0.13	0.26	66.67%	0.45	0.11	> 0.05	N.S.
3.	Fatigue	0.86	0.13	0.73	84.60%	0.45	0.11	< 0.001	H.S.
4.	Headache	0.60	0.20	0.40	66.66%	0.50	0.13	< 0.05	S.
5.	Fainting	0.26	0.13	0.13	49.98%	0.35	0.09	> 0.05	N.S.
6.	Sweat	0.53	0.13	0.40	75.00%	0.50	0.13	< 0.05	S.
7.	Diarrhoea	0.20	0.06	0.13	66.65%	0.35	0.090	> 0.05	N.S.
8.	Constipation	0.80	0.33	0.46	58.33%	0.51	0.13	< 0.05	S.
9.	Vaginal Discharge	0.13	0.06	0.06	50.01%	0.25	0.06	> 0.05	N.S.
10.	Breast Tenderness	0.80	0.20	0.60	75.00%	0.50	0.13	< 0.001	H.S.
11.	Giddiness	0.80	0.13	0.67	83.33%	0.48	0.12	< 0.001	H.S.

Highly significant results are shown on Nausea, Fatigue, Breast tenderness and Giddiness. Significant results obtained on Sweat, Headache and Constipation. Results on Fainting, Vaginal discharge, Vomiting and Diarrhoea were Non-significant.

Table 3: Shows the pattern of clinical recovery in various Subjective Parameters of *Kashtartava* in 15 patients treated with *Rajah Pravartini Vati* orally Group B by Wilcoxon matched-pairs signed-ranks test

C No	Cumntoms	Mean		Dif.	% of	CD	CE	P	Results
5.NO	Symptoms	BT	AT	DII.	Change	SD	SE	P	Results
1.	Pain Intensity	2.467	1.333	1.133	53.91%	0.7432	0.1919	< 0.0001	H.S.
2.	Pain Duration	2.467	1.133	1.333	54.03%	0.7237	0.1869	< 0.0001	H.S.
3.	Nature of Pain	2.333	0.93333	1.400	60.00%	0.6325	0.1633	< 0.0001	H.S.
4.	Associated Symptoms	2.000	0.6000	1.400	70%	0.7368	0.1902	< 0.0001	H.S.
5.	VAS Scale	2.467	0.9333	1.533	62.14%	0.6399	0.1652	< 0.0001	H.S.
6.	Flow Duration	1.733	2.133	-0.400	-23.08%	0.6325	0.1633	>0.05	N.S.
7.	Flow Amount	1.533	1.929	-0.4286	-26.66%	0.7559	0.2020	>0.05	N.S.

Highly significant results are shown on Pain Intensity, Pain Duration, Nature of Pain, Associated symptoms and VAS Scale. Results on Flow Duration and Flow Amount were Non-significant.

Table 4: Shows the pattern of clinical recovery in various Associated Symptoms of *Kashtartava* in 15 patients treated *with Rajah Pravartini Vati* orally Group B by Wilcoxon matched-pairs signed-ranks test

S.No.	Symptoms	Mean		Dif.	% of	SD	SE	P	Results
		BT	AT		Relief				
1.	Nausea	0.66	0.13	0.53	79.99%	0.51	0.13	< 0.001	H.S.
2.	Vomiting	0.53	0.26	0.26	50.00%	0.45	0.11	> 0.05	N.S
3.	Fatigue	0.93	0.20	0.73	78.57%	0.45	0.11	< 0.001	H.S.
4.	Headache	0.46	0.06	0.40	85.7%	0.50	0.13	< 0.05	S.
5.	Fainting	0.20	0.06	0.13	66.65%	0.35	0.09	> 0.05	N.S.
6.	Sweat	0.66	0.13	0.53	79.99%	0.51	0.13	< 0.001	H.S.
7.	Diarrhoea	0.13	0.06	0.06	50.01%	0.25	0.06	> 0.05	N.S.
8.	Constipation	0.53	0.26	0.26	50.00%	0.45	0.11	> 0.05	N.S.
9.	Vaginal Discharge	0.33	0.20	0.13	39.99%	0.35	0.09	> 0.05	N.S.
10.	Breast Tenderness	0.66	0.20	0.46	70.00%	0.51	0.13	< 0.05	S.
11.	Giddiness	0.80	0.40	0.40	50.00%	0.50	0.13	< 0.05	S.

Highly significant results are shown on Nausea, Fatigue and Sweat. Significant results obtained on Headache, Breast tenderness and Giddiness. Results on Fainting, Vomiting, Diarrhoea, Constipation and Vaginal discharge were Non-significant.

Table 5: Inter Group Comparison in Associated Symptoms of Kashtartava by Mann-Whitney Test

Symptoms	Group	Mean Dif.	S.D.±	S.E.±	P	Result
Nausea	Group A	0.6667	0.4880	0.1260	>0.05	N.S.
	Group B	0.3333	0.4880	0.1260		
Vomiting	Group A	0.2667	0.4577	0.1182	>0.05	N.S
	Group B	0.2667	0.4577	0.1182		
Fatigue	Group A	0.7333	0.4577	0.1182	>0.05	N.S
	Group B	0.7333	0.4577	0.1182		
Headache	Group A	0.2667	0.4577	0.1182	>0.05	N.S
	Group B	0.3333	0.4880	0.1260		
Fainting	Group A	0.1333	0.3519	0.09085	>0.05	N.S
	Group B	0.1333	0.3519	0.09085		
Sweat	Group A	0.4000	0.5071	0.1309	>0.05	N.S
	Group B	0.5333	05164	0.1333		
Diarrhoea	Group A	0.1333	0.3519	0.09085	>0.05	N.S
	Group B	0.06667	0.2582	0.06667		
Constipation	Group A	0.4667	0.5164	0.1333	>0.05	N.S
	Group B	0.2667	0.4577	0.1182		
Vaginal Discharge	Group A	0.06667	0.2582	0.06667	>0.05	N.S
	Group B	0.1333	0.3519	0.09085		
Breast Tenderness	Group A	0.6000	0.5071	0.1309	>0.05	N.S.
	Group B	0.4667	0.5164	0.1333		
Giddiness	Group A	0.6667	0.4880	0.1260	>0.05	N.S.
	Group B	0.4000	0.5071	0.1309		

Non-significant results were obtained in both groups. That shows that results in both groups were almost same.

Table 6: Inter Group Comparison in Subjective Parameters of Kashtartava by Mann-Whitney Test

Symptoms	Group	Mean Dif.	S.D.±	S.E.±	P	Result
Dain Intensity	Group A	2.000	0.6547	0.1690	< 0.001	H.S.
Pain Intensity	Group B	1.133	0.7432	0.1919	< 0.001	
Dain Dunation	Group A	1.933	0.7988	0.2063	>0.05	N.S.
Pain Duration	Group B	1.333	0.7237	0.1869	>0.05	N.S.
Nature of Pain	Group A	1.800	0.6761	0.1746	>0.05	N.S.
Nature of Palli	Group B	1.400	0.6325	0.1633	>0.05	
Flore Dunation	Group A	-0.1333	0.6399	0.1652	٠,٥,٥٢	N.S.
Flow Duration	Group B	-0.4000	0.6325	0.1633	>0.05	N.S.
Elevis American	Group A	-0.0667	0.5936	0.1533	٠,٥,٥٢	N.S.
Flow Amount	Group B	-0.4000	0.7368	0.1092	>0.05	
A ' - 1 - 1 C '	Group A	1.533	0.6399	0.1652	>0.05	N.S.
Associated Symptoms	Group B	1.400	0.7368	0,1902	>0.05	IV.S.
VAC Coole	Group A	2.000	0.9258	0.2390	. 0 001	II C
VAS Scale	Group B	0.9333	0.7988	0.2063	< 0.001	H.S.

Non-significant results were obtained in Pain Duration, Nature of Pain, Flow Duration and Flow Amount and associated symptoms. While highly significant result obtained in Pain intensity and VAS Scale in which Group A is better than Group B.

Table 7: Shows the % Improvement of Symptoms in Both Groups

S.NO.	Cardinal Symptoms	Result in Percentage				
	8	Group A	Group B			
1	Nausea	83.33%	79.99%			
2	Vomiting	66.67%	50.00%			
3	Fatigue	84.60%	78.57%			
4	Headache	66.66%	85.7%			
5	Fainting	49.98%	66.65%			
6	Sweat	75.00%	79.99%			
7	Diarrhoea	66.65%	50.01%			
8	Constipation	58.33%	50.00%			
9	Vaginal Discharge	50.01%	39.99%			
10	Breast Tenderness	75.00%	70.00%			
11	Giddiness	83.33%	50.00%			
12	Pain Intensity	83.33%	53.91%			
13	Pain Duration	82.85%	54.03%			
14	Nature of Pain	71.06%	60.00%			
15	Flow Duration	08.33%	23.08%			
16	Flow Amount	04.54%	26.66%			
17	Associated Symptoms	74.16%	70%			
18	VAS Scale	76.92%	62.14%			
	Average % of relief	63.05%	52.84%			

## **Average Percentage of relief**

Comparing the symptomatic improvement in both groups it was found that Average percentage of relief was higher in 'Group A' i.e. 63.05%, followed by 'Group B' i.e., 52.84%. It shows that effect of therapy was more in Group A in comparison to Group B.

**Table 8: Overall Effect of Therapy** 

S.No.	Effect of therapy	Result	Group A		Group B	
			No.	%	No.	%
1	Mild	(0 to 25%)	00	0.00%	00	0.00%
2	Moderate	(>25 to 50%)	01	06.66%	11	73.33%
3	Significant	(>50 to 75%)	11	73.33%	04	26.66%
4	Excellent	(>75%)	03	20.00%	00	0.00%

## DISCUSSION

## Mode of action of Hingvadi Churna<sup>8</sup>

Churna Drugs of Hingvadi have predominantly Tikta, Katu, Kashaya and Amla Rasa. Tikta Rasa has Agni Vardhaka, Ruchya and Mukha Shodhaka properties, so it increases appetite and improves digestion. *Kashaya Rasa* has the property of Asravishodhana (Raktadushtihara). Amla Rasa of Matulung, has properties like Agnideeptikrut, Pachana and Rochana which improves digestion, increases appetite. Its Hridya property reduces nausea and vomiting. Amla Rasa also has the property of Muda Vata Anulomana (Mudam-Ananulomagam, Vata Mutra Purishaanaam Anulomanam). Katu Rasa, Usna Virya and Katu Vipaka of Yavakshar increases appetite and which improves digestion brings about Srotoshodhana.

Laghu and Ruksha gunas of the drugs of pacify Kapha vitiation if any. Sara, Ushna, Tikshna and Sookshma properties of the drugs in the formulation remove Avarana (Kapha) and thus allow normal movement of Apana Vata. Hingvadi Churna mostly contains drugs having Ushna Virya which pacifies vitiated Vata. Most of the drugs in the Yoga have Katu Madhura Vipaka which also pacifies vitiated Vata. Vata Anulomana, Shulahara, Shothahara, Srotovishodhana properties of drugs of Hingvadi churna facilitates normal flow of Vata i.e. Anuloma Gati of Apanavata.

## Mode of action of Rajah Pravirtini Vati9

It is effective in *Artavavikara*. Hingu, Kumari, Tankan and Kasis are the main ingredients of Rajah Pravirtini Vati. Hingu (Ferula Asafoetida Linn) has Shoolahara (colic pain reliever) and Vatanulomana (facilitator of downward movement of Vata) property which helps in normalising the function of Apanvata, which is main causative factor of Kashtartava. Hingu has anti flatulent and digestive properties & counteracts spasmodic disorders and may probably supress the secretion of progesterone hormone<sup>[3]</sup>. The gum resin contains the coumarins, 5-hydroxy-umbelliprenin, assafoetidin etc<sup>[4]</sup>.

*Kumari* (*Aloe barbadensis* Mill.) has a characteristic bitter taste and used mainly as purgative, improves digestion; the cathartic

properties of aloes are attributed to the presence of a mixture of glycosides called 'aloin'<sup>[5]</sup>. *Kumari* also contains beeta-sitosterol and has the antiprostaglandin activity<sup>[6]</sup>. Cathartic property of this relives the obstruction in the pathways of *Vayu*, and there by relieves spasm.

Hingu, Tankana, Kasis are Artavajanana drugs. Kasis helps in Rakta Dhatu Vriddhi, which improve the uterine blood circulation (reduced blood circulation is a cause for dysmenorrhoea.) Balya (strength promoting) (Kumari, Hingu, Tankana, Kasis) Rasayana (Kumari) drugs give strength to uterine musculature for easy expulsion of Raja. Tankana is Garbhashaya sankochaka (improves the tonicity of uterine muscle) drug helps in normal harmonization during contraction.

Comparing the symptomatic improvement in both groups it was found that overall relief was higher in Group A followed by Group B i.e. 03 (20.00%) patients having excellent relief, 11 (73.33%) patients showed significant relief, 01 (6.66%) patient showed moderate relief. In Group B 01 (04.00%) patients showed excellent relief, 04 (26.66%) patients showed significant relief, 11 (73.33%) patients showed moderate relief. So the effect of therapy was more in Group A in comparison to Group B.

It is may be due to the Ingredients of *Hingvadi churna* are mainly *Katu-tikt Rasa*, *Ushna Virya* and having *Sukshma*, *Snigdha* and *Vikasi Guna* which are the properties of *Vatanulomana* (facilitator of downward movement of *Vata*), *Shoola prashamana* (colic pain reliever) and *Vedana sthapana*.

The drug *Hingvadi Churna* provided relief in all the cardinal features of *Kashtartava*. All 15 patients in Group A showed improvement in symptoms of *Kashtartava* as most of the parameters were statistically significant. Improvement in associated symptoms of diarrhea was statistically insignificant. Presence of associated symptoms like nausea, vomiting, faintness, diarrhea etc. indicate the involvement of other *Doshas* also in *Kashtartava*.

In Group B, Highly significant results are shown on Pain Intensity, Pain Duration, Nature of Pain, Associated symptoms, VAS Scale. Significant results obtained on Flow Amount. Results on Flow Duration were insignificant. Highly significant results are shown on Nausea and Sweat. Significant results obtained on Vomiting, Fatigue, Headache, Constipation, Vaginal discharge and Breast tenderness while Results on Fainting and Diarrhoea were insignificant.

It is may be due to the fact that Rajah Pravirtini Vati has Katu (pungent)-Tikta (bitter) Rasa, Laghu (light), Snighdha (unctuous) and Tikshna (sharp) Guna, Katu Vipaka and Ushna Virya (active potency). Tikta (bitter) taste and Tikshna (sharp) property of drug removes the Srotoavarodha and facilitates flow of Vata; Katu Vipaka and Ushna Virya pacifies the aggravated Vata and thus allows the painless flow of Artava.

#### CONCLUSION

Therapeutic Effect of Group-A (*Hingvadi churna* orally) Patients of this group showed relief by improvement in 83.33% in pain intensity, 82.85% in pain duration, 71.06% in nature of pain, 8.33% in menstrual flow duration, 4.54% in menstrual flow amount, 74.16% in associated symptoms and 76.92% in VAS scale.

Therapeutic Effect of Group-B (*Rajah-Pravartini Vati* orally) Patients of this group showed relief by improvement in 53.91% in pain intensity, 54.03% in pain duration, 60.00% in nature of pain, -23.08% in menstrual flow duration, -26.66% in menstrual flow amount, 70.00% in associated symptoms and 62.14% in VAS scale.

Comparing the symptomatic improvement in both groups it was found that Average percentage of relief was higher in Group A i.e. 63.05%, followed by Group B i.e., 52.84%. It shows that effect of therapy was more in group B in comparison to group A.

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