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Study of etiological factors of *Kashtartava* (dysmenorrhea) in urban population

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ABSTRACT

The lifestyle of today's women is getting changed due to modernization and sedentary life style. This has resulted in increase in number of diseases alarmingly like infertility, abortions, miscarriages, early menopause, breast cancers, cervical and ovarian cancers and many more gynaecological disorders. Such kind of unhealthy lifestyle, food habits, and psychological factors has affected the offspring also. *Kashtartava* is a broad term which covers all the problems and ailments that a woman may suffer from during or around menstruation. It includes both primary and secondary types of dysmenorrhea. Thus, 200 patients in the age-group of 12-25 years suffering from dysmenorrhea were registered for the survey study. Assessments of patients were done by scale based on symptoms of *Kashtartava* and assessment of *Ahara-Vihar* and *Manashetus*. In survey study it was found that, the *Hetus* and *Lakshana* found in patients of *Kashtartava* were nearly similar but the severity and number of *Hetus* and *Lakshana* in urban population were on higher side.

Key words: Kashtartava, dysmenorrhea, urban population, gynaecological disorders.

INTRODUCTION

The condition of dysmenorrhoea is explained in Ayurvedic literature in terms of *Kashtartava* / *Kukshishoola, Vatala Yoni, Udavartini Yonivyapad* (Ayurvedic names of disease under *Striroga* -Gynecology).^[1] The causative factors, pathogenesis, symptoms and treatment are also described in Ayurveda and based on that, the increased '*Vata'* type of humors in the body is responsible for disease creation.^[2] *Kashtartava* i.e. dysmenorrhea is most common gynaecological problem bringing the women

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to clinician. Various studies in India revealed that prevalence of dysmenorrhoeal varies from 33% to 79.67%.^[3] However, the true incidence and prevalence of dysmenorrhea are not clearly established in India. One study shows overall prevalence of dysmenorrhea was 65.02% with 68.4% in urban and 61.2% in rural areas.^[4] The difference in the prevalence of the urban and rural adolescent girls is not significant then also former is on higher side. Morbidity due to dysmenorrhea represents a substantial public health burden. It is one of the leading causes of absenteeism from school and work and is responsible for significant loss of earnings and diminished quality of life. Despite its high prevalence and associated negative effects, many women do not seek medical care for this condition.^[5] This common problem results in number of physical and emotional symptoms and it also affects their quality of life. In many conditions, these girls suffer a lot and use OTC medications to manage the discomforts without medical supervision. It ultimately leads to mismanagement of Kashtartava. These types of selfmedication and continuous medication affect the health. One of the studies says that dysmenorrhea

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can be better managed by mental preparation and by appropriate changes in lifestyle like regular physical exercise. The etiology of uterine pain in primary dysmenorrhea is still not established. But several risk factors have been identified, such as young age, early menarche, positive family history, nulliparity, stress/depression and smoking.^[6]

The evaluation of *Lakshana* and pathogenesis of *Kashtartava* reveals similarity with Primary Dysmenorrhea in modern. *Kashtartava* is the *Tridoshaja Vatapradhana Vyadhi*, in which vitiation of mainly *Apana Vayu* and *Vyana Vayu* takes place. Many researches have been done in regards with *Kashtartava* but less many works has been done in relation to its etiological background. Therefore, an attempt is made to study etiological factors of *Kashtartava* in Urban population.

AIM AND OBJECTIVE

- 1. To study the etiological factors of *Kashtartava* (dysmenorrhea) in urban population.
- 2. Role of *Ahara Vihar* and *Manasik* etiological factors in *Samprapti* of *Kashtartava*.

MATERIAL AND METHODS

Study participants

In this survey study, total 200 patients were enrolled in trial from the OPD of Prasuti Tantra Evam Stri Roga department. Patients were screened in accordance with the inclusion and exclusion criteria mentioned in the protocol.

Cases collection

Cases were enrolled from school survey of urban and rural area. Total 200 cases were taken. 100 each in group A and group B. Informed written consent was taken for the study and detail history was taken.

Inclusion Criteria

- Female between 12-25 yrs. of age group.
- Female residing in urban area in Group A.
- Female residing in rural area in Group B.

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Exclusion Criteria

- Female not willing for study.
- Female suffering from other major illness.
- Married women.

Table 1: Assessment of Kashtartava

Severity of pain (Multidimensional scoring pattern)	Score
Menstruation is not painful and daily activity unaffected	0
Menstruation is painful and daily activity not affected. No analgesic required.	1
Menstruation is painful and daily activity affected. Analgesic drug were needed.	2
Menstruation is painful, she cannot do even her normal routine work and has to absent from class / office during menses. Had to take analgesic but poor effect.	3

Duration	Score
No pain in menstruation	0
Pain persist less than 12 hours	1
Pain continue for 12-24 hours	2
Pain continue more than 24 hours	3

Artava Pramana (by number of Pad)	Score
6 – 7 pads/cycle	0
4 – 5 pads/cycle	1
2 – 3 pads/cycle	2
Spotting or 1 pad/cycle	3

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Artavasrava Avadhi	Score
Duration of menses 4 – 7 days.	0
Duration of menses 3 days.	1
Duration of menses 2 days.	2
Duration of menses 1 day	3

Yatochitkala Adarshanam (interval)	Score
25-35 days	0
36-45 days	1
46-55 days	2
56-65 days	3

Praseka (Nausea)	Score
No Praseka	0
2 – 3 times/day	1
4 – 5 times/day	2
>5 times/day	3

Chhardi	Score
No Chhardi	0
Occasionally	1
1 - 2 times/day	2
More than 2 times/day	3

Vibandha (Constipation)	Score
No Vibandha	0
Frequency once in a day, but hard stool pass.	1
Frequency of stool alternate day and patient feels difficulty in defaecation.	2
frequency ones per 2-3 days, difficult in defication	3

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<i>Atisara</i> (Dhiarrhoea)	Score
No Atisara	0
Occasionally	1
2 – 3 times/day and Drava Mala Pravritti.	2
More than 3 times/day Drava Mala Pravritti.	3

Shrama (Fatigue)	Score
No Shrama	0
Fatigue by single extra work other than daily routine.	1
Fatigue by normal daily routine.	2
Severe fatigue even without work.	3

Aruchi (Loss of Appetite)	Score
Takes full diet and also presence of properappetite at the next meal hour	0
Presence of moderate appetite and promote appearance of appetite in next meal hour	1
Presence of low appetite but delayed appearance of appetite in next meal hour.	2
Persisting low appetite or frequently losing appetite and unable to consume even low diet	3

Shirashula (Headache)	Score
No headache	0
Headache, ones in menstruation persist for less than 6 hours.	1
Frequent headache 2-3 times per menstruation, dailyactivity not affected	2
Persistent headache through out the menstruation, daily activity affected.	3

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<i>Vankshana Shula</i> (Tenesmus of the bladder), <i>Kati</i> and <i>Janu Shula</i>	Score
No pain	0
Presence of all 03 < 1 hour / 02 features < 6 hrs / 01feature < 12 hrs.	1
Presence of all 03 1-2 hrs/ 02 features 6-12 hrs/ 01feature > 12 hrs.	2
Presence of all 03 > 2 hrs / 02 features 12-24 hrs./ 01 feature > 24 hrs.	3

Swedadhikya (Excessive sweating)	Score
No sweating	0
Occurs only at working in hot or doing hard work	1
More in day time and when associated or following hot flushes only	2
Excessive sweating to that extend that patient feels like taking bath changing clothes	3

<i>Tamodarshana</i> (Faints)	Score
No faints	0
Occasionally ones per menstruation	1
Faint per each menstruation.	2
More than 01 times per each menstruation.	3

Table 2: Assessment of Ahara Hetu

Repetition of <i>Hetu</i> in7 days	Score
0 - 2 / 7	0
3 - 4 / 7	1
5 - 6 / 7	2
7/7	3

Table 3: Assessment of Vihara Hetu

Divaswapa

Score	Time	Days
0	< 1 hr	1/7
1	1 hr	3-4 / 7
2	2 hr	5-6/7
3	≥ 3 hr	7 / 7

Ratrijagaran

Score	Time	Days
0	10 pm-12 am	1/7
1	1 am	3-4 / 7
2	2 am	5-6/7
3	>2 am	7/7

Vyayam

Score	Time	Days
0	Avyayam	1/7
1	15- 20 min.	3-4 / 7
2	30 -60 min.	5-6 / 7
3	>1 hr	7/7

Vegavarodha

Score	Time	Days
0	0	1/7
1	5min.	3-4 / 7
2	10min.	5-6 / 7
3	>15 min.	7/7

Vegodviran

Score	Time	Days
0	1 / days	1/7
1	2 / days	3-4 / 7
2	3 / days	5-6 / 7
3	4 / days	7/7

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Table 4: Assessment of Manas Hetu

Shoka	Class	Ans - Yes	Quantity
	0	0	No
	1	1	Some Time
	2	2	Mostly
	3	≥ 3	Always
Krodha	0	0	No
	1	1	Some Time
	2	2	Mostly
	3	≥ 3	Always
Bhaya	0	0	No
	1	1	Some Time
	2	2	Mostly
	3	≥ 3	Always
Chinta	0	1	No
	1	2	Some Time
	2	3	Mostly
	3	≥ 4	Always

OBSERVATIONS AND RESULTS

The observations were noted from the specially designed Case Record Form. The 200subjects were observed for the study, 100 subjects were from urban area (Group A) and 100 subjects from rural area (Group B).

Table 5: Age wise distribution of patients.

Age	Group A	Group B	Total	%
13 - 15	77	23	100	50
16 - 18	16	68	84	42
19 - 21	7	9	16	8
Total	100	100	200	100

Table 6: Distribution of subjects according tosymptoms in Group A and B

SN	Symptoms	Chi- Square	P value
1	<i>Ruja</i> (pain)	38.7	<0.00 1
2	Udarshula (abdominal pain)		
3	Vankshanshula/katishula/janus hula(joint pain)	0.669	>0.05
4	Yatochitkala Adarshanam (interval)		
5	Praseka (Nausea)	0.493	>0.05
6	Chhardi (vomiting)	4.344	< 0.05
7	Vibandha (Constipation)	0.383	> 0.05
8	Atisara (Dhiarrhoea)	4.344	< 0.05
9	Shrama (Fatigue)	12.562	<0.00 1
10	Aruchi (Loss of Appetite)	7.769	> 0.05
11	Shirashula (Headache)	0.13	> 0.05
12	<i>Swedadhikya</i> (Excessive sweating)	2.806	> 0.05
13	<i>Tamodarshana</i> (Faints)	9.011	<0.01

Table 7: Distribution of subjects according to Ahara Hetus.

Hetu	Groups	Mild (%)	Modera te (%)	Severe (%)
Madhura	Group A	24	19	57
	Group B	21	28	51
Amla	Group A	16	2	82
	Group B	22	4	74
Lavana	Group A	39	37	24
	Group B	35	48	17
Katu	Group A	36	0	64
	Group B	42	0	58
Tikta	Group A	63	37	0
	Group B	51	59	0
Kashaya	Group A	100	0	0
	Group B	100	0	0

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Vidahi	Group A	17	15	68
	Group B	19	17	64
Paryushita anna	Group A	12	15	73
	Group B	15	17	66
Ajirnashan a	Group A	20	13	67
	Group B	31	16	53
Viruddhas hana	Group A	14	15	71
	Group B	16	6	78
Adhyasha na	Group A	17	22	61
	Group B	22	19	59
Atyambup ana	Group A	18	22	60
	Group B	15	18	67
Virudha	Group A	16	16	68
	Group B	34	13	63
Ajirnashan a	Group A	20	13	67
	Group B	31	16	53

Table 8: Distribution of subjects according toaccording to Vihara Hetus.

Hetu	Groups	Mild (%)	Moderate (%)	Severe (%)
Vegadharana	Group A	43	12	45
	Group B	43	45	12
Vegaudgirana	Group A	63	33	4
	Group B	63	33	4
Diwaswap	Group A	59	38	3
	Group	65	33	2

	В			
Jagaran	Group A	66	29	5
	Group B	73	21	6
Vyayama	Group A	76	20	4
	Group B	75	16	9

Table 9: Distribution of subjects according to ManasHetus.

Hetu	Groups	Mild (%)	Moderate (%)	Severe (%)
Shoka	Group A	5	19	76
	Group B	7	20	73
Krodha	Group A	0	7	93
	Group B	3	8	89
Bhaya	Group A	16	18	66
	Group B	38	12	50
Chinta	Group A	13	17	70
	Group B	6	20	74

DISCUSSION

Menstruation is the normal physiological process, when accompanied with pain called Kashtartava. Kashtartava is a gynecological medical condition of pain during menstruation that interferes with daily activities. Though it is not a fatal disease but it is the most common cause of abscentism of young women from the school, colleges and offices. Several studies have shown that adolescents with dysmenorrhea report that, it affects their academic performance, social and sports activities. It is very disturbing phenomenon for the young women and it suffers a lot at the crucial period of their life. Not only pain but many other discomforts are present which interferes with their daily routine. There occurs severe abdominal pain with aches and pains in whole body. Females also suffer from anorexia and other gastrointestinal disturbances. Along with physical

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disturbances; psychological changes are also hampering their daily life. Considering its higher prevalence the disease is selected for the study.

Most of the subjects (50%) were in the age group of 13-15 yrs., followed by 42% in the age group of 16-18 yrs. Only 8% of subjects were from age group of 19-21yrs. Maximum symptoms were noted in the young girls who were near to the menarche period. As the age increases, the tolerance increases and this may be possible reason for reduction in symptom in elder age group. In this study, 57% subjects were having Atyadhika Sevana of Madhura Rasa in group A and 51% in Group B. Madhura Rasa increases the Kapha which is responsible for Margavarodhajanya Vata Prakopa ultimately leading to Kashtartava.^[7] 68% patients were taking Vidahi Ahara in Group A and 64% in Group B. It causes Pittavruddhi and Rakta Dushti.^[8] Viruddhashana was found in 71% in Group A and 78% in Group B. Viruddhashana causes Dosha Utklesh but resist the Dosha to expel out from the body.^[9] Avyayama causes Agni Dushti, Kapha Vriddhi and formation of Aama which is cause for Avaranajanya Kashtartava.^[10] Vegadharana was found most of patients. Vata, Mutra, Mala Vegavarodha causes Apana Vayu Dushti which lead to Pakvashayashrita Vyadhi Utpatti. This Udavartit Apana Vayu causes Awarodh to the menstrual flow which tries to resist the Awarodh leading to Kashtartava.^[11] In this study, about 93% of subjects in Group A and 89% in Group B were having Krodha, 76% in Group A and 73% in Group B subjects were having Shoka, and 70% in Group A and 74% in Group B subjects were having Chinta. Chinta, Shoka, Bhaya lead to Vata Prakopa and Krodha is responsible for the Prakopa of Pitta Dosha. Again Chinta is responsible for the Rasavaha Srotodushti and Kshaya of Rasa Dhatu leading to Dushti and Kshaya of Artava.^[12]

Samprapti of Kashartava

In the present study, most of the *Hetus* found in subjects of urban area are *Santarpana Hetus*. The fast food culture and sedentary life style leads to *Amavarodhajanya Vata Prakopa*, which is found to be the root cause of the disease. Due to *Kaphaprakopak*

Ahara Vihara and absence of Vyayama, Aqni gets Manda leading to Amotpatti. This causes Amavarodhajanya Vata Prakopa also Vegavidharana Vegaudgirana like Hetus make Apana Vayu Dushti which causes obstruction in the flow of Artava. But Artava is trying to overcome this resistance caused by Apana Vayu. Spasm takes place during the menstrual flow resulting in painful menstruation i.e. Kashtartava.

CONCLUSION

In this survey it was observed that, Urban and Rural population shows the Hetus (causative factors) and Lakshana (Symptoms) found in patients of Kashtartava were nearly similar, but the severity and number of Hetus and Lakshana in urban population were on higher side. Among Vihara Hetu; Avyayama, Vegavarodha (Mala, Mutra, Apana Vayu Vega Avarodha) are found to very common etiological factors of Kashtartava. Not following Rajasvalacharya during menstrual period is also one of cause of Kashtartava. Excess intake of Madhura Rasa in diet, Vidahi Ahara, Viruddhashana were also found to be responsible for Vata Prakopa and Pittavruddhi, Rakta Dushti ultimately leading to Kashtartava. Manasa Hetu in the form of Chinta, Shoka, Bhaya and Krodha are also found to be predisposing factors for Kashtartava.

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