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## **Research Article**

# CLINICAL EVALUATION OF *SHATAPUSHPA SHATAVARI CHURNA* AND O.C. PILLS IN THE MANAGEMENT OF *ARTAVA KSHAYA* W.S.R. TO CERTAIN MENSTRUAL DISORDERS

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#### ABSTRACT

A randomised control clinical trial was carried out on 60 Artava Kshaya (irregular, scanty and painful menses) patients aged between 18 and 40 years having complaints of irregular, scanty and painful menstruations. The patients were registered from OPD of CSMSS Ayurved Rugnalaya & Research Centre, Aurangabad, Divided into 2 groups, They were administrated *Shatapuspa* and *Shatawari churna* (group A) and OC pill (group B) for three months in a dose of 5 g daily with cow *Ghrita* and *Guda*; OC pills (Mala N) once in a day as per standard schedule. The specific investigations were done in order to exclude congenital anomalies, endometritis, endocrine disorders, diabetes and heart disease. The clinical assessment was carried out in 3 intervals 30 days apart. It is inferred that the study shows the effect of both treatments were significant in clinical study. In group A, none of the patient showed excellent improvement in Artava Kshava, while moderate improvement was observed in one (3.33%) patient, mild improvement was observed in 25 (83.25%) patients and 4 (13.32%) of the patients showed ineffective improvement after treatment. In group B, none of the patient showed excellent improvement in Artava Kshaya, while moderate improvement was observed in 2 (6.66%) patients, mild improvement was observed in 25 (83.25%) patients and 3 (9.99%) of the patients showed ineffective improvement after treatment. The Shatapushpa Shatavari Churna is more effective on Yoni Vedana, Artava strava Pramana and Artava strava kalvavadhi.-Both Shatapushpa Shatavari Churna and O.C. pill are effective on and duration between two Artava Darshana but O.C. pill is comparatively more effective.

KEYWORDS: Irregular, Scanty, Painful menses, Artavakshaya, Shatapushpa, Shatawari, Mala-N.

#### INTRODUCTION

Woman's health is the primary factor to be considered for wellbeing of family, society and culture. Any physical, physiological disorder disturbs her life. Physiological changes and development occurs right from birth but markedly during the reproductive period. Due to changed life style of women, increased the physical and emotional stress which alters the physiology of 'Hypothalamus- Pituitary- Ovarian- Uterine axis' which leads to many gynaecological problems. Among all gynaecological problems, the most common one is menstrual problem that is *Artava Kshaya* being more common.

In today's scenario the hormonal treatment which has a good therapeutic utility, is not devoid of side effects, rather than hormonal treatment from contemporary science Ayurvedic herbo-mineral, non-hormonal, non-toxic preparations are proved effective for *Artava Kshaya*. Therefore there is increasing demand to address the problem from view of Ayurvedic medicine which gives better relief without causing any harms.

Many formulations have been documented in Ayurveda and which are effective in *Artava Kshaya*.

In allopathic system *lakshana* of *Artava Kshaya*<sup>1</sup> can be correlated with certain menstrual disorders as follows.

- Irregular menses<sup>2 3 4</sup> as Yathochita kala adarshanam,
- Hypomenorrhoea<sup>567</sup> as Alpata
- Dysmenorrhoea<sup>89</sup> as Yonivedana (Trayavarta)

In allopathic system, only treatment on these certain menstrual disorders is hormonal therapy/hormonal pills<sup>2</sup>.

So *Shatapushpa Shatavari Churna* may be better alternative to these hormonal OC pills. So keeping this view in mind *Shatapushpa Shatavari Churna* and O.C. pills is being selected for the study as they restore the health of uterus and subside the menstrual disorders.

#### MATERIAL AND METHOD

#### Materials

1) Diagnosed patients of Artava Kshaya.

2) Drug: Shatapushpa Shatavari Churna, Guda and Ghrita as Anupan, OC pills (Mala-N).

## Method

Type of study: Open Randomized controlled trial.

60 patients was enrolled and randomly divided in 2 groups.

a. Group A was given *Shatapushpa Shatavari Churna* (Samabhag i.e. 1:1 ratio)

b. Group B was OC Pills (Mala-N)

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S.No	Торіс	Group A	Group B
1)	Form.	Shatapushpa Shatavari Churna	OC pills (Mala-N)
2)	Dose	5gm OD With Ghrita and Gud	1pill OD with water
3)	Time	<i>Abhaktakal</i> (early morning) with empty stomach)	After meal
4)	Duration of therapy	3 month /3 menstrual cycle (from 5th day of Menses)	3 month/3 menstrual cycle (from 5th day of Menses)
5)	Route of administration	Oral	Oral

## **Inclusion Criteria**

- Patients willing to be part of treatment of *Artava Kshaya*.
- Patients age between 18-40 years.
- Both unmarried and married women.
- Spotting / bleeding less than 1 day.
- Patients presenting with the *Pratyatma lakshana* of *Artava Kshaya*.
  - o Yathochitakala-adarshanam (irregular menses)
  - o *Atyalpataa* (Hypomenorrhoea) scanty menses

o Yonivedana (Dysmenorrhoea) painful menses

## **Exclusion Criteria**

- Patient with systemic disorder like DM, HTN, TB, Asthma, Congenital Abnormalities.
- Patient with malnutrition, severe anaemia (Hb < 7 gm %)</li>
- Lactating women.
- Woman having IUCD.

## **Study Design**

- 1. From OPD and IPD, total 60 diagnosed patients of *Artava Kshaya* was selected. Divided into 2 groups by random sampling method Group A and Group B.30 patient in each group.
- 2. Written consent was taken from every patient after giving them information about research.
- 3. Proper case history was taken on case record form. Suitable changes made in CRF accordingly to need of study.
- 4. Observations was taken according to the assessment criteria. Follow up taken on 30th day, 60th day and 90th day during treatment or after each menstruation during treatment. Final observation was on 90th day or 3rd menstrual cycle.
- 5. Wilcoxon Signed Rank test and Mann-Whitney U test was applied to data available and after analysis results drawn accordingly.

## Criteria For Withdrawal

- 1. Patient not willing to continue treatment.
- 2. Patient absent for any follow-up.
- 3. Any serious complication develops which requires urgent treatment with any other drug or therapy.
- 4. Patients in study hospitalized to another hospitals.

## Assessment Criteria

Assessment was done based on following criteria before and after the treatment.

- 1. Duration of flow
- 2. Interval between 2 cycles
- 3. Amount of blood loss (Pad per day)
- 4. Pain (Yoni vedana tryavarta voni)

## Observation criteria<sup>10</sup>

• Yoni Vedana (Pain)

Grades are I, II, III, IV with symptoms i.e., No pain, Mild (Having pain, can do routine work), Moderate (Unable to do work), Severe (bed ridden) having score 0, 1, 2, 3 respectively.

• Artavastravakalavadhi (Duration of menses)

Grades are I, II, III, IV with symptoms i.e.,- bleeding 3-5 days, bleeding less than 2-3 days, bleeding less than 1-2 days, bleeding less than 1 day / Spotting having score 0, 1, 2, 3 respectively.

## • Artavastrava Pramana (Blood loss)

Grades are I, II, III, IV with symptoms i.e., Normal (2 pads/day), required 1 to 2 pads/day, required 1 pad/day, Spotting having score 0, 1, 2, 3 respectively.

#### • Duration between Two Artavadarshan

Grades are I, II, III, IV with symptoms i.e., Normal 28 days interval between two menses, 29-31 days or 25-27 days interval between two menses, 32-34 days or 22-24 days interval between two menses l, more than 34 days or less than 22 days interval between two menses having score 0, 1, 2, 3 respectively.

## Investigations

- 1. Hb%, BT CT (if required)
- 2. ESR (if required)
- 3. Urine (Routine and Microscopic)
- 4. USG (if required)
- 5. Hormonal assay (if required)

## Sample of Observation table

for each patient scoring done before, during and after completion of treatment and duration of study in following manner.

Observations	Before	Durin	During the treatment (score 0 to 3)					
	Treatment 1st day (score 0 to 3)	After1st M.Cycle/ 30th day	After 2nd M.Cycle/ 60thday	After 3rd M.Cycle /90th day	On 90th day (score 0 to3)			
Vedana (Pain)								
Artavastravakalavadhi								
Artavastravapramana								
Duration between 2								
Artavadarshan								

#### G. Maniari *et al.* Phytochemical Screening of Aglaia Elaeagnoidea and their Efficacy on Antioxidant and Antimicrobial Growth Total assessment criteria

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Efficacy of the treatment	Total Assessment
Excellent	75-100% Relief in sign and symptoms
Moderate	50-75% Relief in sign and symptoms
Mild	25-50% Relief in sign and symptoms
Ineffective	0-25% Relief in sign and symptoms
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With the help of above score, efficacy of the drug was determined as

Study end point: after 90th day or end day of 3rd menstrual cvcle.

#### Drug preparation for trial group (group A) **Drug Preparation**<sup>1,2</sup>

Preparation of research drug Shatapushpa and *Shatavari samabhag* (1:1) *Churna* is prepared according to reference of Sharangdhar Samhita, time to time as per needed to patient. Also *Ghrita* and *Guda* will be given along with *Churna*<sup>2</sup>.

## Results

- In present study, the statistical analysis reveals that both the drugs i.e. Shatapushpa Shatavari Churna and O.C. pills are significantly effective.
- Also both the drugs have provided significant relief in sign and symptoms of Artava Kshava. But, Shatapushpa Shatavari Churna is proved to be relatively better than O.C. Pills in relieving the symptoms Yoni Vedana and Aratava strava Pramana
- Whereas O.C. pills are proved to be relatively better than Shatapushpa Shatavari Churna in relieving symptom Duration between two Artava Darshana.

## DISCUSSION

Artava Kshava is known to mankind since ancient period. In Veda and Purana Granthas, the references of Artava Kshaya and its management are available. In classical Ayurvedic literature, Artava Kshaya is described in detail regarding to its causes, patho-physiology and treatment.

Artava Kshaya is Vata-Kaphatmak vyadhi in which Artava chakra of a female get disturbed in terms of-

- Yathochit kal Adarshanam.
- Alpata (Quantity as well as duration).
- Yonivedana.

In modern science it is group of symptoms observed in disease of female reproductive system together or separately. Caused by hormonal imbalance And they are

- Irregular Menstruation
- Hypomenorrhoea
- Dvsmenorrhoea

So, present study is an attempt to provide an effective Ayurvedic remedy.

## **Disease review**

In the present study, a detail description of *Artava* Kshaya is done with all its Nidana, Lakshanas samprapti, Samprapti ghatakas, etc. Artava Kshava can be correlated extent with Irregular to some menstruation Hypomenorrhoea and Dysmenorrhoea. The effects of drugs as evidenced in the clinical trials were recorded along with detailed case history.

The direct reference for the Nidana of Artava Kshaya is not found in the classics. The Samanya nidana that causes Kshava of the Dosha & Dhatu is considered & the Vishesha Nidana that vitiates the Doshas are considered in the study. Thus all these Nidanasevana contribute to cause Artava Kshava.

To understand *the Samprapti* of *Artava Kshaya* it is important to know about the formation of *Rasa dhatu*. As Artava is the Upadhatu of Rasa dhatu, the Kshaya of Rasa dhatu finally leads to Kshaya of Artava. Formation of Rasa *dhatu* is affected when there is *lataraani mandhva*. This Mandagni with vitiated Doshas hamper the formation of Ahara Rasa by producing Ama. Hence Utpatti of Rasa Dhatu is affected as it is formed from Ahara Rasa.

Since the 'Samprapti vighatana' is the main aim for the proper Artava utpatti, which can be achieved by maintaining the normalcy of the Agni. Normalcy of Apana vata helps in expulsion of Artava. Garbhashava & Artavavahini dhamani are Mula for Artavavaha srotas. If there is any injury to this, leads to Nastartava. Aratavavaha srotas are obstructed by the Vikruti of Apana vata & Kapha, results in Artava Kshaya.

To maintain normalcy of Agni & Vata, removing the *Kapha* is the basic line of treatment. In the classics both Shodhana & Shamana Chikitsa has been explained for Artava Kshaya. Shodhana Chikitsa as explained by Acharya Dalhana includes only Vamana karma, as this removes only the Soumya dhatu and maintains the Pitta which is required for *Utpatti of Artava*. *Acharya Cakrapani* explains that both Vamana & Virechana karma can be administered. Acharva Kashyapa has mentioned Basti to be the best treatment. Shamana Chikitsa is explained in the form of 'Agneya dravyas'.

Agneya dravyas are used as they are *Pittavardhakar*. By this the *Agni is* stimulated which helps in digestion of Ama, formation of Ahara Rasa, which later on forms the Rasa dhatu from which the Artava is formed. These Agneva dravvas helps in increasing the quantity of Artava, as the Artava is also Pitta pradhana. As the basic concept of "Samanyam vrudhikaranam" intake of Samana *Guna* causes the increase of same *Guna*. Hence *the Agneva dravyas* are given prime importance in producing *Artava*.

Use of *Agneya dravyas* not only relieves the *Kapha* which does Avarana to Apana vata but also increases the quantity of Artava. As Agneva dravvas have Ushna virva, it maintains the normalcy of Ruksha & Sheetaguna of Vata, Snigdha & Pichhila Guna of Kapha.

## **Drug review**

#### Probable mode of action

The action of *Rasa*, *Guna*, *Virya* etc. get neutralized among themselves. Therefore, stronger component neutralizes the action of weaker component. Hence, action of particular drug compound is the action in nature.

Mode of action of *Shatapushpa shatavari churna* along with *Ghruta* and *Guda* is as follows.

## Shatpushpa<sup>11 12 3 14 15</sup>

• *Katu Rasa* and *Katu Vipak* have *Deepana, Pachan karma* which cause *Aampachan* and thus provides proper metabolism and ultimately balance the *Agni. Ushna veerya* has *Deepana, Pachan, Virechan* and *Vilayan* property which ultimately act as *Anulomak karma. Ruksha and Tikshna Guna* have *Srotoshodhak* property which helps in expelling the morbid *Doshas*.

• Ushna virya - act as Vata and Kapha hara by Deepan, Pachan; in Artava Kshaya there is obstruction in Srotas due to Kapha and Vata. Shatpushpa act as Pachaka (Pachana karma) after that the Sama Kapha become Niram and facilitate normal action of Vata which is turn stimulate the normal production of Artava. Also Deepan karma takes place which stimulate Artava Dhatwagni which results in formation of Artava.

## Shatavari<sup>16 17 18 19 20 21</sup>

Due to its Madhura, Tikta Rasa, Madhura vipaka, Sheet veerya it acts as Vatagnha. It also acts as Balya and Bruhana. Tikta Rasa have Srotogamitva properties it act on Sukshama Srotasas and removes the Margavarodh. also by Sheet virya it act as Dhatu Prasadan and Balya for Garbhashaya.

Due to *Guru, Snigdha Guna,* it is *Vatagnha* and leads to *Vatanulomana*. It breaks the *Samprapti* of vitiated *Doshas* by *Vatanuloman*.

## Guda<sup>22 23 24 25</sup>

Due to Madhura Rasa it act as Vatashamak and it work as Asrug Prasadan that's why Niram or Dushti rahit artava is produced. The properties of Guda help in enhancing the quality of Shatapushpa shatavari Churna. Though it is having Madhura Rasa, Madhura vipaka, Guru guna & Sheeta veerya, it is Pittavardhaka as per Nighantu Ratnakara. It is having special qualities like Ruchikara, Raktakara, Rasayana, Vrushya which not only helps in Dhatu vruddhi, but also makes the Churna palatable.

#### Ghruta<sup>26 27</sup>

Due to Madhura Rasa and sheet, Snigdha, Guru Guna is Vata shamak, Bruhaniya, Dhatu vrudhikar.

Due to Madhura vipak it act as Vata shamak Dhatu vardhan, Balya and Sheet veerya it act as Vataghna, Pittaghna. Due to Sheet virya – act as Dhatu Prasadan and Balya as given Anupan it help to enhance effect of Shatapushpa and Shatavari Churna. Thus help in Samprapti bhanga.

#### Overall action of compound drug as follows<sup>16 to 27</sup>

- Due to Laghu Guna, Ushna veeryaand katu, Tikta Rasa reduces Pichhil guna of Kapha and by Srotoshodhan srotorodh removed.

- *Madhur Rasa, Sheet, Snigdha Guna Vata shaman* and *bruhan, Dhatu Prasadan* by the sequence action of *Prakrut Artava* is produced.

- By Agnideepan and Aampachana karma Jatharagni get stimulated which further stimulates all Dhatwagni thus production of Niram sapta Dhatu and their Upadhatu (Artava) takes place.

#### Discussion on clinical study

It is the most important part of research work it not only helps us to understand the subject but also leads us toward the conclusion.

For this study clinical evaluation of *Shatapushpa Shatavari Churna* and O.C. pills in the management of *Artava Kshaya*, randomly 60 patients were selected. They were examined and observed, data is recorded and interpreted. The observation and results are explained earlier. The critical notes and discussion on the data is presented as follows.

## Shatapushpa and Shatawari Churna with Guda and Ghruta

Artava is Agneya Guna Yukta so according to Sushruta Saman Guna Yukta Aushadhi is very helpful for Chikitsa. Shatapushpa is Ushna veeryatmak, Vata- Kapha shamak, Anulomak, Deepan pachan.

Shatavari is Sheet veeryatmak, Madhura- Tikta Rasatmak. It act as Garbhashaya Balyakar, it also act as Dhatu Prasadan. Due to Tikta rasa Sukshma srotorodha is removed.

Guda is also Madhura Rasa and Sheet veeryatmak. It also act as Balya. Due to Ushna Guna it help to enhance the production of Artava. Also it have Asrugprasadan property. Ghruta as Anupan it enhance the effect of the Churna.

#### **Discussion on observations**

#### Age

Out of 60 maximum 44 (73.03%) patients were in age group 20-30.As women in this age group are more conscious for pregnancy also family burdens, children and personal problems are there which might affect the personal life of a woman due to which menstrual cycle is disturbed and leading to *Artava Kshaya*.

	Group A	Group A			Total	
	No. of patients	%	No. of patients	%	No. of patients	%
Below 20	01	3.33	02	6.66	03	4.98
20-30	23	76.59	21	69.93	44	73.04
30-40	06	19.98	07	23.31	13	21.58
Total	30	100	30	100	60	100

#### Menarche

Out of 60 patients 20 (33.20%) patients were having menarche at the age of 12 years. while 17 (28.22%), 17 (28.22%), 04 (6.64%), 02 (3.32%) at the age of 13,14,15 and 16 year respectively. The difference in age of menarche is not significant so *Artava Kshaya* is independent of menarche.

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Menarche at Age in years	Group A		Group B		Total	
	No. of patients	%	No. of patients	%	No. of patients	%
12	10	33.33	10	33.33	20	33.20
13	07	23.31	10	33.33	17	28.22
14	08	26.64	09	29.97	17	28.22
15	03	9.99	01	3.33	04	6.64
16	02	6.66	0	-	02	3.32

#### Marital status

Out of 60 patients 36 (59.76%) patients were married while 24 (39.84%) patients were unmarried. It can be said that the change in *Desha, Ahara, Vihara* after marriage, disturbs menstrual cycle which in turn lead to *Artava Kshaya* and in some married women psychological and economical stress and disturbances in marriage may lead to *Artava Kshaya* 

<b>Marital Status</b>	Group A		Group B		Total		
	No. of patients	%	No. of patients	%	No. of patients	%	
Unmarried	11	36.63	13	43.29	24	39.84	
Married	19	63.27	17	56.61	36	59.76	
Total	30	100	30	100	60	100	

#### Gravida

Out of 60 patients maximum 34 (56.44%) patients were nulli-gravida, 09 (14.94%) were primi-gravida while 17 (28.22%) patients were multi - gravida. So it can be said that nulli gravida are more prone to *Artava kshaya*.

No. of Gravida	Group A		Group B		Total		
	No. of patients	%	No. of patients	%	No. of patients	%	
Nulli-Gravida	18	59.94	16	53.28	34	56.44	
Primi-Gravida	06	19.98	03	9.99	09	14.94	
Multi-Gravida	06	19.98	11	36.63	17	28.22	
Total	30	100	30	100	60	100	

## Educational status: Out of 60 patients, all 60 patients are educated.

<b>Educational Status</b>	Group A		Group B		Total		
	No. of patients	%	No. of patients	%	No. of patients	%	
Literate	30	100	30	100	60	100	
Illiterate	)e	-	art	-	-	-	
Total	30	100	30	100	60	100	

#### Religion

Out of 60 patients maximum 56 (92.96 %) patients were from Hindu community, 2 (3.32%) were from Muslim community where as 2 (3.32%) patients were from other community.

Religion	Group A		Group B		Total	
	No. of patients	%	No. of patients	%	No. of patients	%
Hindu	30	100	26	86.58	56	92.96
Muslim	0	0	02	6.66	02	3.32
Other	0	0	02	6.66	02	3.32
Total	30	100	30	100	60	100

#### Mode of work

Out of 60 patients maximum 21 (34.86%) of patients were doing education, 17 (28.22%) patients were in service, 16 (26.56%) patients were housewife while 6 (9.96%) doing labour work. So it can be said that women doing education or service are more prone to *Artava Kshaya* due to stress and unstable lifestyle, food habit.

Mode of work	Group A		Group B	Group B		Total	
	No. of patients	%	No. of patients	%	No. of patients	%	
Education	10	33.33	11	36.63	21	34.86	
Service	09	29.97	08	26.64	17	28.22	
Housewife	08	26.64	08	26.64	16	26.56	
Labour	03	9.99	03	9.99	6	9.96	
Total	30	100	30	100	60	100	

#### Diet

Out of 60 patients 17 (28.22%) of patients were vegetarian while 43 (71.38%) patients were taking mixed type of diet. So it can be said that patients were taking mixed type of diet are more prone to *Artava Kshaya*.

Diet	Group A		Group B		Total		
	No. of patients	%	No. of patients	%	No. of patients	%	
Vegetarian	9	29.97	8	26.64	17	28.22	
Mixed	21	69.93	22	73.26	43	71.38	
Total	30	100	30	100	60	100	

#### Koshtha

Out of 60 patients 35 (58.10%) patients were having *Krura Koshtha*, 8 (13.8%) patients were having *Madhyam Koshtha* whereas 17 (28.22%) having *Madhyam Koshtha*.

#### Prakruti

Out of 60 patients 25 (41.50%) having *Vata kaphaj prakruti*. This is may be due to *Artava Kshaya* is also *Vata-kaphaj vyadhi*, so it can be said that women having *Vata-kaphaj prakruti* are more prone to *Artava Kshaya*.

Prakruti	Group A		Group B		Total	
РГИКГИЦ	No. of patients	%	No. of patients	%	No. of patients	%
Vata-Pittaj	07	23.31	09	29.97	16	26.56
Vata-Kaphaj	12	39.96	13	43.29	25	41.50
Pitta-Vataj	06	19.98	04	13.32	10	16.60
Kapha-Vataj	03	9.99	04	13.32	07	11.62
Kapha-Pittaj	02	6.66	0	0	02	3.32
Total	30	100	30	100	60	100

#### Agni

Out of 60 patients 18 (59.94%) patients were found having *Mandagni*. As *Mandagni* is primary cause of all *vyadhi* it is also may cause *Artava kshaya*. So it can be said that women having *Mandagni* are more prone to *Artava kshya*.

Agni	Group A		Group B		Total		
	No.of patients	%	No. of patients	%	No. of patients	%	
Tikshana	6	19.98	11	36.63	17	28.22	
Manda	18	59.94	16	53.28	34	56.44	
Visham	6	19.98	4	13.32	10	16.6	
Total	30	100	30	100	60	100	

#### Effect of therapy on subjective criteria Yathochit kal Adarshana

Where the interval in between two *Artava Darshana* is concerned, 47.29% reduction was seen in Group A and 60.81% reduction was seen in Group B. These results show that O.C. Pill is more effective in reducing the *Yathochit kal Adarshana*.

#### Alpata

- In terms of Artava strava Pramana
- Where the amount of *Artava strava* is concerned 80% relief was seen in group A while 62% relief was seen in Group B. These results show that both the therapies were effective in increment of the amount of *Artava strava*, but *Shatapushpa Shatavari Churna* is more effective in reliving *Alpata* of *Artava*.
- In terms of Artava strava Kalavadhi.
- Where the duration of *Artava strava* is concerned 95.76 % increment was seen in Group A and 81.05% increment was seen in Group B. These results show that both the therapies were effective in increasing the duration of *Artava strava* but *Shatapushpa Shatavari Churna* is more effective in reliving *Alpata* of *Artava strava Kalavadhi*.

#### Yoni Vedana

Where the pain during menses subsided 88.34 % in Group A and 68.96% in Group B. The result was highly significant in both group. But *Shatapushpa Shatavari Churna* is more effective in reliving *Yoni Vedana*. **In trial group (group A)** 

I alah awa	Before treatment		After treatment					Significance
Lakshana	Mean	S.D.	Mean	S.D.	% Relief	Wilcoxon Signed Rank Z value	p value	
Yoni vedana	2.23	0.62	0.26	0.49	88.34%	-4.70	< 0.05	Hig.Sig.
Artava strava pramana	1.8	0.76	0.36	0.49	80%	-4.54	< 0.05	Hig.Sig.
Artava strava kalavadhi	2.36	0.61	0.1	0.30	95.76%	-4.78	< 0.05	Hig.Sig.
Duration between two Artava darshana	2.96	0.18	1.56	0.56	47.29%	-4.70	<0.05	Hig.Sig.

#### In control group(group B)

	Before treatment		After treatment		%	Wilcoxon Signed	P value	Significance
	Mean	S.D.	Mean	S.D.	Relief	Rank Z value	r value	Significance
Vedana	2.03	0.66	0.63	0.49	68.96%	-4.62	< 0.05	Hig. Sig.
Artava strava pramana	2.50	0.50	0.93	0.69	62.8%	-4.78	< 0.05	Hig. Sig.
Artava strava kalavadhi	1.90	0.66	0.36	0.49	81.05%	-4.54	< 0.05	Hig. Sig.
Duration between two Artava darshana	2.96	0.18	1.16	0.37	60.81%	-4.78	< 0.05	Hig. Sig.

#### **Comparison of both therapies**

The overall effects of both the therapies on cardinal symptoms of Artava Kshaya showed that

- G. Manjari *et al.* Phytochemical Screening of Aglaia Elaeagnoidea and their Efficacy on Antioxidant and Antimicrobial Growth
- The Shatapushpa Shatavari Churna is more effective on Yoni Vedana, Artava strava Pramana and Artava strava kalvavadhi.
- Both *Shatapushpa Shatavari Churna* and O.C. pill are effective on and duration between two *Artava Darshana* but O.C. pill is comparatively more effective.

## **Overall effect of therapy**

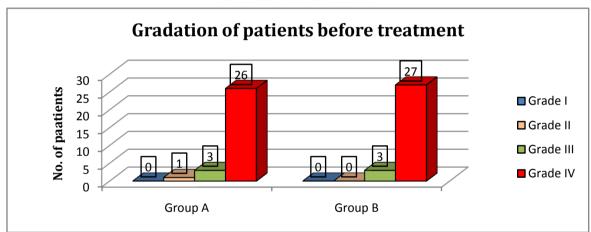
In group A, none of the patient showed excellent improvement in *Artava Kshaya*, while moderate improvement was observed in 1 (3.33%) patients, mild improvement was observed in 25 (83.25%) patients and 4 (13.32%) of the patient showed ineffective improvement after treatment.

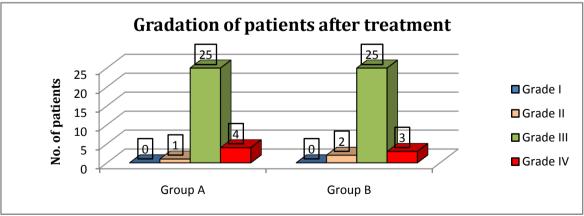
In group B, none of the patient showed excellent improvement in *Artava Kshaya*, while moderate improvement was observed in 2 (6.66%) patients, mild improvement was observed in 25 (83.25%) patients and 3 (9.99%) of the patient showed ineffective improvement after treatment.

Gradation of patients	Group A		Group B		
before treatment	Number of patients	%	Number of patients	%	
Grade I	0	0	0	0	
Grade II	1	3.33	0	0	
Grade III	3	9.99	3	9.99	
Grade IV	26	86.58	27	89.91	

Overall effect of therapies on Artava kshaya as vyadhi

Gradation of patients	Group A		Group B		
after treatment	Number of patients	%	Number of patients	%	
Grade I	0	0	0	0	
Grade II	1	3.33	2	6.66	
Grade III	25	83.25	25	83.25	
Grade IV	4	13.32	3	9.99	





#### CONCLUSION

A clinical study has been done for Clinical evaluation of *Shatapushapa Shatawari Churna* and O.C. pill in the management of *Artava Kshaya* w.s.r. to certain menstrual disorders. The conclusions drawn from the results obtained in this study are as follows.

- On the basis of statistical analysis it can be concluded that both the drugs that is *Shatapushpa shatavari Churna* and O.C. Pills effective in *Artava Kshaya*.
- Also both the drugs have provided significant relief in sign and symptoms of *Artava Kshaya*. But,

*Shatapushpa Shatavari Churna* is proved to be relatively better than O.C. Pills in relieving the symptoms *Yoni Vedana* and *Aratava strava Pramana* 

- Whereas O.C. pills are proved to be relatively better than *Shatapushpa Shatavari Churna* in relieving symptom Duration between two *Artava Darshana*.
- Trial drug *Shatapushpa Shatavari Churna* is proved to be a safe formulation, without having any adverse effects.
- From the above observations obtained in this study it can be conclude that *Artava Kshaya* is more common in women who is-

-Age between 20-30, married, nulli-gravida.

-Doing stressful work, having mixed type of diet.

-Krura koshtha, Manda Agni, Vata-Kaphaj prakruti.

• This study was carried out on small sample size that is 30 patients in each group and it showed significant results. Further studies on large sample are necessary to confirm these findings.

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