

INTERNATIONAL AYURVEDIC MEDICAL JOURNAL







Research Article ISSN: 2320-5091 Impact Factor: 6.719

A COMPARATIVE CLINICAL STUDY TO EVALUATE THE EFFICACY OF JEERAKAWLEHA AND YASTIMADHU CHOORNA IN THE MANAGEMENT OF ASRUGDARA

Dipali Sawale¹, Veena Jawale²,

¹M.S (Ayu): Striroga and Prasutitantra dept. Assistant professor, Shri Annasaheb Dange Ayurved medical college, Astha, Maharashtra, India.

²M.S (Ayu): Striroga and Prasutitantra dept., HOD & Guide, Seth GovindajiRaojiAyurved Mahavidyalaya, Solapur, Maharashtra, India

Corresponding Author: dr.dipali1008@gmail.com

https://doi.org/10.46607/iamj0911112023

(Published Online: November 2023)

Open Access

© International Ayurvedic Medical Journal, India 2023

Article Received: 09/10/2023 - Peer Reviewed: 25/10/2023 - Accepted for Publication: 10/11/2023.



ABSTRACT

Women is endowed with energy of procreation for which menarche is the first step. Menstrual cycle commences with this and ends with menopause and having normal menstruation depicts the wellbeing of female. In normal menstruation the duration of menstruation is about 4-5 days, and the amount of blood loss is estimated to be 20-80ml with an average 35 ml. Due to *pradirana*(excessive excretion) of *raja* (menstrual blood), it is named as *pradara/asrugdara*. *Asrugdara* characterized by excessive prolonged menstrual or intermenstrual bleeding due to *Pradirana* (excessive excretion) of *raja* (Menstrual blood), it is named as *Pradara* and or *Asrugdara*. As heavy menstrual bleeding is a debilitating disorder, the woman requires rapid, safe and effective treatment. In *ayurvedic* classice a variety of treatments in the management of *asrugdara*has been described. Out of them, the subject is selected to compare efficacy of *Jeerakavaleha* mentioned by *Yogratnakara*, with effect of *Yastimadhu choorna*mentioned by *Bhavaprakasha* which is already proved in the previous study. *Jeerakavaleha* has *Gerbhashyashodhaka*, *raktapittahara* property.

Keywords: *Pradara/asrugdara*, raja, *Jeerakawaleha*, *Yastimadhuchoorna*.

INTRODUCTION

Excessive vaginal bleeding is associated with considerable health consequences and its impact on the social and psychological wellbeing of women. Excessive uterine bleeding is managed with Hormone therapy with associated side effects, and if unsuccessful is followed by surgical intervention. Dilatation and Curettage are best temporary treatment with limited efficacy. About 40-50% Of North American women had a hysterectomy for benign reasons, or Menorrhagia. Charaka and Chakrapanisay that increased Rakta(blood)get mixed with Raja (Menstrual blood), thus quantity of *Raja* increased⁴. One of the most common problems faced by women is excessive and prolonged bleeding during menstruation. Various reports suggest that 30-50% of women in the reproductive age group suffer from excessive and irregular uterine bleeding by various causative factors. 28% of the female population consider their menstruation excessive and will plan their social activities around their menstrual cycle, and nearly 10% employed women will need to take off from work because of excessive menstrual loss. Excessive uterine bleeding is managed with Hormone therapy with associated side effects, and if unsuccessful is followed by surgical intervention. Dilatation and Curettage are best temporary treatment with limited efficacy. Due to limitation of medical therapy modern science, becomes the necessity of the time to find out ineffective, harmless therapy to manage the condition. In Ayurveda so many drugs described in treatment of Asrugdara so subject entitled "A COMPARATIVE CLINICAL STUDY TO **EVALUATE** THE **EFFICACY** OF JEERAKA WLEHA AND **YASTIMADHU CHOORNAIN** THE **MANAGEMENT** OF ASRUGDARA" have been selected.

AIM AND OBJECTIVES

AIM: To compare the efficacy of *Yastimadhu choorna* and *Jeerakawaleha* in the management of *Asrugdara*.

OBJECTIVES -

1. To compare the effect of *Jeerakawaleha* with *Yastimadhuchurna*in *asrugdara*.

2. To review the literature of a*srugdara* ayurvedic aspect as well as modern aspect of DUB.

Materials and methods-

Drug
preparationOn the
basis
of description of
classical
texts
many
preparations



Prakshep dravyas

are

found. Their methods of preparation are the same, but these differ on the basis of stages of preparation. The preparations are *Phanita*, *rasa kriya*, *leha*, *avaleha* and *Ghana*. These are secondary preparations as for those either decoction or juice is processed further to make this into semisolid or solid consistency. In some of preparations sweet substances like sugar, jiggery, honey, and aromatic materials and also Ghee or oil added to make those more palatable and long shelf life.

Jeerakawaleha contains. Paste of jeeraka- 640gm

Lodhra- 320gm

Godugdha- 2560ml

Goghritha – 320ml

Added and cooked over low fire. Ones the mixture becomes like an electuary it is removed from the fire and cooled. Now powdered sugar one prastha and powder of *Chaturjatak*, *kana*, *Vishva*, *ajaji*, *musta*, *balaka*, *dadimarasanjana*, *dhanyaka*, *rajani*, *shadavasakam*, *vamsaja* and *tawaksiri* each 24 gm as possible as available all *Prakshep dravyas* added and mixed throughly⁹².



Kwatha preparation



Standardization of drug was done from authentic pharmaceutical laboratory.

Place of study-

Patient who was reported in the dept of *Prasutitantra* and *streeroga* in hospital attached to the college were selected on the basis of diagnostic and inclusive criteria.

Selection criteria-

Minimum 60 patient diagnosed as *asrugdara* were selected for the study of *streeroga* & *Prasutitantra* dept. and divided into two groups randomly.

A. Inclusion criteria-

- 1. Age- 20-45yrs
- 2. Diagnosed patient of *asrugdara* without any organic pathology.
- 3. HB% above 8.

B. Exclusion criteria-

- 1. Patient with uterine and pelvic pathology.
- 2. Recent H/O Threatened, spontaneous or incomplete abortion.
- 3. Patient taking anticoagulant therapy if having any coagulant defects.
- 4. Patient with IUCD in situ or on OC pills.
- 5. Any suspected malignant condition of genital organs.
- 6. Severe systemic diseases thyroid toxicities/ anemia/diabetes etc.



Awaleha nirman

C. Withdrawal criteria-

Patients with irregular follow-up and not ready for further participation will be discontinued. Patients which are absent for two consecutive cycles or follow up.

Randomly patients were selected as per selection criteria having symptoms of *Asrugdara* into Group A & Group B.

Group A- Yashtimadhu choorna

The patient of this group treatment was given with *Sampraman* (similar quantity) of *Yashtimadhu choorna* and *sharkara* (powdered sugar) in following dose

Dose-6gm Bid

Anupan-Tandulodak (20ml)

Sevankal- bhojanottar (after meal)

Group B -Jeerakawaleha

The patient of this treatment given with *Jeeraka-waleha* in the following dose

Dose-10 gm Bid

Anupan-Dugdha. (milk)(80 ml)

Sevankal-bhojanottar (after meal)

Duration of study-

Around -18 months

Total duration of treatment- 3 months

Assessment Criteria-

Table 01: Adhodara shoola-

Grade 0	Menses not painful
Grade 1	Menses painful but daily activities not hampered
Grade 2	Menses painful and daily activities are slightly hampered
Grade 3	Menses painful daily activities hampered and needs treatment

Table 02: Artava-atipravrutti

Grade 0	1-3 pads/day
Grade 1	3-4 pads/day
Grade 2	5-6 pads/day
Grade 3	More than 6 pads/day

Table 03: Grathitwa

Grade 0	No clots
Grade 1	3-4 clots
Grade 2	5-6 clots
Grade 3	More than 6 clots

Table 04: Sarvangmarda

Grade 0	No pain
Grade 1	Didn't disturbed daily routine, felt only when relaxing
Grade 2	Routines were disturbed due to pain
Grade 3	Pain disturbs daily routine as well as sleep could not be tolerated by medicated aid

Objective criteria-

Endometrial thickness.

Consent of patient- Written informed consent of the patient included in this study was taken in the language best understood to them.

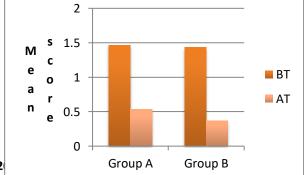
Comparison within groups-

Table 05: Effect on Adhodarashoola-

Ashodara	Mean		W(wilcoxon sign	P-value	% effect	Result
shoola	BT	AT	rank)			
Group A	1.467	0.5333	265	0.02	63.63%	Significant
Group B	1.433	0.3667	213	0.01	72.5%	Significant

Since observation is on ordinal scale Wilcox on sign rank test is used to test efficacy in group A and group B. From the above table it is observed that p-value for group A and group B are less than 0.05.hence it is concluded that effect observed in both group A and group B is significant.

Group A is 63.63% and group B is 72.5% effective. Hence group B is more effective Adhodarashoola than group



doi:10.46607/iamj0911112

A.

Chart 01

Table 06: Effect on ArtavaAtipravrutti -

Artavaati	Mean		W(wilcoxon sig	n P-value	% effect	Result
pravrutti	BT	AT	rank)			
Group A	1.967	0.5333	325	0.001	72.88%	Very sig
Group B	1.900	0.2000	435	0.04	89.47%	Significant

Since observation is on ordinal scale Wilcoxon sign rank test is used to test efficacy in group A and group B. From the above table it is observed that p-value for group A and group B are less than 0.05.hence it is concluded that effect observed in both group A and group B is significant.

Group A is 72.88% and group B is 89.47% effective. Hence group B is more effective on artavAtipravrutti than group B.

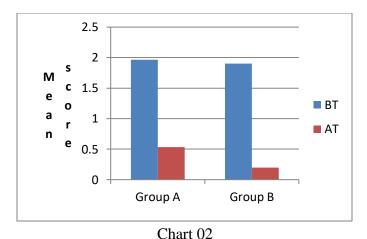


Table 07: Effect on Grathitwa -

Grathitwa	Mean		W(wilcoxon	sign	P-value	% effect	Result
	BT	AT	rank)				
Group A	1.567	0.600	260		0.003	61.70%	Very sig
Group B	1.586	0.206	293		0.28	87.2%	Not sig

Since observation is on ordinal scale Wilcoxon sign rank test is used to test efficacy in group A and group B. From the above table it is observed that p-value for group A is less than 0.05 but group B is more than 0.05.hence it is concluded that effect observed in group A is very significant and group B is not significant.

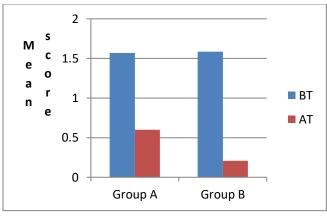


Chart 02

Table 08: Effect on sarvangmarda-

Sarvanga	Mean	Mean		sign	P-value	% effect	Result
marda	BT	AT	rank)				
Group A	1.533	0.533	229		0.1	65.21%	Not sig
Group B	1.700	0.200	378		0.001	88.23%	Very sig

Since observation is on ordinal scale Wilcoxon sign rank test is used to test efficacy in group A and group B. From the above table it is observed that p-value for group A is more than 0.05 but group B is less than 0.05 hence it is concluded that effect observed in group b is very significant and group A is not significant.

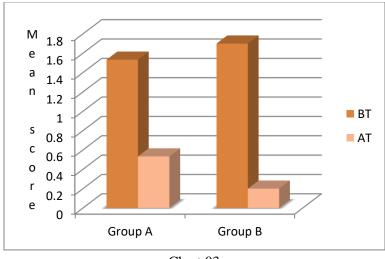


Chart 03

Objective criteria

Endometrial Thickness

Table 09: Paired T-test

Endometrial	thick-	Mean	N	SD	SE	t-Value	P-value	Result
ness								
Grp A	BT	12.43	30	3.01	0.55	5.18	0.001	significant
	AT	11.31	30	2.54	0.46			
Grp B	BT	12.17	30	2.60	0.47	4.74	0.003	significant
	At	10.31	30	2.01	0.36			

Since observation is quantitative, paired t test is used to test efficacy of group A and group B. From the above table it is observed that p- values for group A and group B are less than 0.05. Hence it is observed that group A and group B are significant.

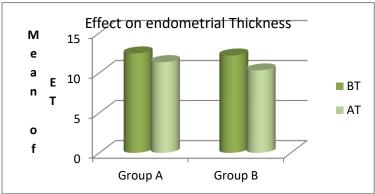


Chart 04: Comparison between two groups(Mann-Whitney U test)

Subjective parameters-

Table 10

	Group	N	Mean	Sum of rank	Mann-Whitney U	p-value	
Adhodara	Group A	30	0.53	1004	361	0.09	
Shola	Group B	30	0.36	826			
Artava-	Group A	30	0.53	1065	300	0.01	
Atipravruti	Group B	30	0.20	765			
Grathitwa	Group A	30	0.60	1053	312	0.01	
	Group B	30	0.20	777			
Sarvang	Group A	30	0.55	1065	300	0.01	
marda	Group B	30	0.20	765			

For comparison between Group A and Group B, Mann Whitney U test used. From the above it was observed that p-values for *ashodiarashool* parameter is greater than 0.05.Hence it is concluded that there is

no significant difference between group A and group B. Both groups are equally effective.

Next all parameters of group A and group B, p value is less than 0.05 hence it is concluded that there is significant difference between group A and group B.

Comparison between two groups-Table 11:Objective parameter-(unpaired t test)

	N	Mean	SD	SE	t-value	P-value
Group A	30	11.31	2.54	0.46	1.68	0.10
Group B	30	10.31	2.01	0.36		

For comparison between group A and group B, Unpaired t test is used. From the above it is observed that the p value is greater than 0.05. Hence it is concluded that there is no significant difference between group A and group B. Both groups are equally effective.

Overall Effect of therapy-

Table 12

Result	Group A	% effect	Group B	% effect
Excellent	4	13.33%	24	80%
Markedly	20	66.66%	5	16.66%
Improved				
Improved	6	20.0%	1	3.33%
unchanged	0	0.00%	0	0.00%

- **1.** *Adhodarshool-* Group A is 63.63% effective and group B 72.5% effective. Hence, group B is more effective than group A. Pain in lower abdomen both the groups get subsided, in comparison difference was not significant after completion of treatment.
- Adhodarashool is due to vitiated vata, jeeraka and all prakashep dravyas and ghrita in jeerakawaleha has ushna, snigdhaguna all opposite to vataguna. Hence it acts as vatghna and ultimately Adhodarashool subsides due to vatashamana.
- **2.** Artava-Atipravrutti- Both Group A are 72.88% effective and group B 89.47% effective. Hence, group B is more effective than group A. In the *Jeerakawlehalodhra* has in higher quantity and having stambhaka, Artavsthapaka, raktashuddhikara, grahi properties. Overall avaleha have pittashaman, vatashamanaguna hence artava-Atipravrutti subsides more effectively with the use of jeerakawaleha.
- **3.** *Grathitwa* Group A is 61.70% effective and group B is 87.2 effective. Hence, group B is more effective than group A. In this study group b is treated with *jeerakawaleha* which have *garbhashaya shodhaka*, and in that included drugs are *katutiktakashay* property which reduces *sanghtana* of vitiated *rakta* dhatu and group B treated with *Yastimadhu choorna* which has *shleshmaghna* property hence it reduces *granthitartavpravrutti*.
- **4.** *Sarvangmarda*-Group A is 65.21% effective and group B 88.23% effective. Hence, group B is more effective than group A. *sarvangmarda* of both the groups subsidized; in comparison difference was significant after completion of treatment. *sarvangmarda* is due to vitiated *vata*.

Discussion regarding to objective parameter-

In the present study endometrial thickness shows significant effect but comparatively both the groups are equally effective.

Overall effect of therapy-

Table 13: Overall Effect

Result	Group A	% effect	Group B	% effect
Excellent	4	13.33%	24	80%
Markedly	20	66.66%	5	16.66%
Improved				
Improved	6	20.0%	1	3.33%
Unchanged	0	0.00%	0	0.00%

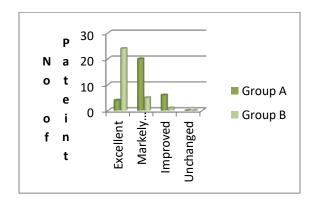


Chart 05

Excellent results are seen in Group B that is 46.66%, markedly improved cases are more in Group B that is 41.66%, only improved cases are 11.66% and there arenot any unchanged cases were seen. That means both the groups are effective in treatment of *asrugda-ra*, but group B is more effective than group A.

Probable mode of action of drug-

Jeeraka and all prakashepdravyas in jeerakawaleha are ushna, tikshna and ghrita having vatashamana property. Jeerakawaleha is effective and easy to administer kalpa. This drug has apradaranashana property. All prakshepa dravyas have a lekhana, deepana and pachana property which helps prakrutara saraktanirmiti and Main contents of Jeerakawaleha are Jeerak and Lodhra have Artavsangrahan, stambhaka, balya, shonitshapan, garbhashay shodhaka properties.

Secondly *Yashtimadhu* also has*Balya*, *Shonitstapana* means *Raktashodhaka*, *raktastambhaka* and also used in *Raktapittadi vikaras14*. *Yasthimadhu choorna* in asrugdara is already proved in previous study.

Jeerakavalehahas a Raktapittashamaka, vatashamaka property; due to this property Samprapti Bhanga of asrugdara occurred and effective control and cure of asrugdara achieved.

Jeeraka is a garbhashayavishuddhikruta, which cleanses and detoxifies uterus to improve stretch and immunity. Cumin contains thymol, that helps promote the production of saliva, bile and another enzyme responsible for food digestion. The aromatic compound Cuminaldehyde helps to induce secretion of digestive juices just by aroma. Cumin is an anticonvective agent and is a rich source of iron. Cumin contains riboflavin, vit b6 and niacin useful in improving the cognitive functions of brain, which ultimately normalize H-P-O axis.

Lodhra acts as shonitasthapana, it also acts as antiinflammatory action by ethanolic extract of bark. Lodhra has raktapittahara, asrugdara, shothahara, and virechaka properties.

Jeerakawaleha acts as Deepana, Pachana, Raktasho-dhaka, Rakta stambhaka, Balya and Shothhara, Raktapittahara, it also regulates the normal function of

Apana vata. In the pathogenesis of Raktapradar Pitta and *Vatta* (Apana) doshas, *Rasa* and *Rakta dhatus* and *Agnimandya* are main responsible factors. Hence its karma can be well understood in the disease *Asrugdara*.

Yastimadhu on asrugdara is already a proven drug which is in shonitasthapanagana and having Pittashamanaguna and according to modern having antiestrogenic activity which reduces unopposed estrogen.

CONCLUSION

- Statistical analysis of the data obtained leads to the conclusion that *jeerakawaleha* and *yastimadhu choorna* in the different groups are effective in the *sampraptivighatana* of *asrugdara*.
- ❖ Jeerakawleha is a compound drug and yastimadhu choorna is a single drug considering this studied data Jeerakawleha is more effective than single drug.
- There is no significant difference in proportion to reducing ET by both therapies but statistically jeerakawaleha is more effective than yastimadhu choorna.
- ❖ Four patients were withdrawn from study so that were replaced by patients fulfilling criteria.

Further scope of study-

- During this research study, 3 patients came with Excessive PV bleeding with Nausea with loose motion, but general condition was good after taking proper history there was excess consumption of *Pittaprakopaka hetu sevanas* and was properly indicated for *virechana*.
- Then investigation was done reports where normal next plan was made for *virechana*. After completion of *virechana jeerakawaleha* was given to those patients and they get complete relief from symptom in 2nd follow up.

So, after giving classical *virechana*, *jeerakawaleha* will gives best results is the further scope of study.

REFERENCES

- D.C Dutta's, Textbook of Gynaecology including Contraception, edited by Hiralalkonar, Published by Jaypee Brothers Medical Publishers, New Delhi, 6th, 2006. Chapter-8, Pg no 80.
- 2. Dr. Bramhananda Tripathi 'Charakasamhita' vol 2, chikitsasthanaChoukhambasurbharatiprakashan, Varanasi reprint 2011 pg. no 1044 verses 30/208.
- 3. Dr. Bramhananda Tripathi 'Charakasamhita' vol 2, chikitsasthanaChoukhambasurbharatiprakashan, Varanasi reprint 2011, verses 30/209 pg no 1044.
- 4. Kaviraj Ambikadatta shastri "Susrutasamhita" AyurvedTatwaSandipika, Hindi commentary, Purvardha, Sharirsthanaadhyaya 2/18, 19 pg. no 632.
- Vd. Shrilamipati shastri "Yogratnakarvidyotinihindivyakhya" Choukhamba Sanskrit sansthana Varanasi 8th edition 2004, Uttarardha, pradararogchikitsaadhyayapg no 400.
- Vd. Himangi vasantbhaiBaldaniya "asrugdara" redshine international press, lunawada 1st edition 2017, pg. no 7
- Vd. Himangi vasantbhaiBaldaniya "asrugdara" redshine international press, lunawada 1st edition 2017, pg. no 8
- 8. John A Rock, John D, Thompson 'Telinde's operative Gynecology' 8th edition, Lippincott. Raven publication, chapter 4 pg. no 771.
- Priyavatsharma, 'History of medicine of India, Indian national science', Choukhambabharatiprakashana reprint 2010 pg. no 732, 833.
- 10. 10)Dr. Arundatta, A Achryapriyavatsharma, 'Susrutsamhita' hindi commentary, Choukhambasurbharatiprakashan, Varanasi, Vol 2 Sharirsthana reprint 2012, adhyaya 2 pg. no 660.
- Achryapriyavatsharma, 'susrutsamhita' hindi commentary, Choukhambasurbharatiprakashan, Varanasi, Vol 2 Sharirsthana reprint 2012, adhyaya 2 pg. no 660.
- 12. Dr. Bramhananda Tripathi 'Charakasamhita' vol 2, chikitsasthanaChoukhambasurbharatiprakashan, Varanasi reprint 2011 pg no 838.
- 13. Dr. Bramhananda Tripathi 'Charakasamhita' vol 2, chikitsasthanaChoukhambasurbharatiprakashan, Varanasi reprint 2011 pg no 838.

- Shri Chakrapani Datta, edited by Vaidya YadavajiTrikamji Acharya, 'Charaka Samhita', Deepika commentary Published by ChoukhambaPrakashana, Varanasi, Reprint in 2009. Chi.30/204-224, Pg no-642.
- Acharya YadavajiTrikamji and Narayan Ram Acharya, 'Susruta-samhita', nibandhsamgraha commentary, Choukhamba Sanskrit sansthan, 2004, sha 2/18-19, pg no-346.
- Acharya YadavajiTrikamji and Narayan Ram Acharya, 'Susruta-samhita', nibandhsamgraha commentary, Choukhamba Sanskrit sansthan, 2004, Sutrastana 15/12-16, pg no-70.
- Atrideva Gupta, 'Astangasangraha' with hindi commentary, Vol.2, Published by ChaukhambaKrishandas Academy, Varanasi, reprint in 2005, Uttara.38 Pg no-329-333.
- 18. Pandit BhisagacharyaHarishastriParadkar, 'Astangahrdayam' with the commentaries 'Sarvangasundara' of Arundatta and 'Ayurvedarasayana' of Hemadri, Published by Krishnadas Academy, Varanasi, 2000 Uttarardha 33, Pg no-893.
- Vriddhajivaka, 'Kashypa Samhita', edited by Prof.K.R. Tewari, with English translation and commentary, ChoukambhaVishvabharati publication, Varanasi, reprint in 2008, Kalpa.5/9,26, Pg no-349.
- P.V. Sharma, 'Bhela Samhita', English translation and commentary, Published ChoukhambaVishvabharati, Varanasi, Reprint2006, Sha.5/7, Pg no-223.
- 21. Madhavakara, 'Madhava Nidanam', translated into English by Prof.K.R. Srikanta Murthy, Published by Chaukhambha Orientalia, Varanasi, Reprint in 2011, 61, Pg no 220.
- 22. Acharya Siddhi Nandan Mishra, Editor by Vd. Harish Chandra Singh Kushwaha, 'Caraka Samhita' Ayurveda Dipika Ayusi Hindi Commentary, Second Part, Published by Chaukhambha Orientalia, Varanasi, 2nd edition 2009 Reprint in 2012, Chapter 30, Pg no 813.

Source of Support: Nil Conflict of Interest: None Declared

How to cite this URL: Dipali Sawale & Veena Jawale: A comparative clinical study to evaluate the efficacy of jeerakawleha and yastimadhu choorna in the management of asrugdara. International Ayurvedic Medical Journal {online} 2023 {cited November2023} Available from: http://www.iamj.in/posts/images/upload/2707_2716.pdf