

AYURLINE

e-ISSN: 2456-4435

July-Sept. 2021 Vol. 05th Issue:3rd

International Journal of Research in Indian Medicine

Efficacy of *Punarnava Swarasa* in the management of *Mutrashmari* (urolithiasis) – a clinical study.

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ABSTRACT

Ashmari (Urolithiasis) is one of the major causes of abdominal pain. It is one of the major problems/in surgical practice and the problem anupana. is recurrence always troublesome to the surgeons. The therapies which are available in different of medicine systems cannot avoid the pathogenesis of calculus. So, recurrence of calculus even after removal is becoming a great problem and constant efforts are being made to evolve effective treatment as well prevention of recurrence of the disease. The objective of present study was evaluation efficacy of Punarnava swarasa in the management of Mutrashmari. Punarnava swarasa is described in

Avurvedic samhitha's in management of mootrakrichradhikara which used along with kulatha yusha

Keywords:

Mutrashmari. Urolithiasis. Kulatha Punarnava swarasa. yusha.

INTRODUCTION

Ashmari comprises of two words, i.e. 'Ashma' and 'Ari' 'Ashma' means a stone and where 'Ari' means enemy. Ashmari is a disease in which there is formation of stone, resulting into severe pain as given by enemy. Hence it might have been considered as one among the 'Ashtamahagada'. Ashmari specifically called as

Moothrashmari is a disease of moothrayahasrotas. The earliest reference of Ashmari with detailed description is available Ayurvedic texts. Sushruta (800-1000 B.C.) has given elaborate description of Ashmari in treatise and information is available in most of the samhitas. This infers its prevalence in the inception of medicine in India. Today 7-10 of every 1000 hospital admission is of Urolithiasis. This is one among the cause for pain abdomen and it is estimated that each individual will have a chance of 1% to suffer from urolithiasis in their lifetime. Highest incidence is in 30-45 years of age group. Hence, it is required to understand that not only treats the condition but also prevents the disease at primary and secondary levels. Moothrashmari is one among the eight Mahagadas. The reason is because, this disease is *Tridoshaja*, it is Marmashrayee vyakthasthana of ashmari is basthi which is one among dashavidha pranayathana. Also when it is a fatal, it needs surgical intervention. The severity of pain which is compared to the pain of child birth makes the life of the patient miserable. The patient dies if the surgery is not done in time.

Acharya Sushruta while describing the *lakshanas* of *ashmari* has clearly mentioned the site of pain, character of pain, severity of pain, aggravating and reliving factors. This pain pattern mentioned in the classics mimics renal colic and acute ureteric colic and the patients complain of aggravation of pain on lifting bending, weight, doing heavy exercise, climbing staircase and on riding vehicle for a long distance and pain is relieved after passing urine are similar to that explained in classics. When an impacted stone moves downwards due to vigorous movements

There will be bleeding, due to injury caused to the urothelium of ureter leading to Hematuria. Even the disease and find a best solution. Vagbhata mentioned the symptom as rudira mootrata due to kshata. Obstruction to the flow of urine is mentioned as moothradhara sangha. Based on these clinical features and the other factors, the disease be co-related can urolithasis. The word urolithiasis can be splitted as uro-lithiasis, which means a condition due to the stone in the urinary tract. The cause for the formation of stone is due to the factors like concentrated urine, deficiency of inhibitor stone like substances mucopolysaccharides, citrate etc. However the role of heredity,

condition, dietic geographical factors have their key role to play. The patient of this disease will have the symptoms like pain dysuria, etc. and is abdomen, confirmed by the investigations USG and X-ray (KUB) etc.

AIMS AND OBJECTIVES

The present clinical study was aimed to evaluate the clinical and therapeutic efficacy of Punarnava swarasa with Kulatha yusha as anupana in the management of moothrashmari.

METHODOLOGY

subjects for Clinical present study: The patients attending the O.P.D. and I.P.D of K.D.M.G.S. Urine Analysis Ayurvedic Medical College, Chalisgaon (MS) who fulfilled the inclusion criteria, were randomly selected for the study. Data was collected in the clinical proforma exclusively prepared for clinical study. The patients presenting with radiological clinical. ultrasonographical features diagnosis favoring the of Mutrashmari, irrespective of sex, religion, occupation, and economic status were selected.

Inclusion Criteria

Patients with presented the classical features of mutrashmari that includes sarudhira mutrata, mahati vedana in nabhi pradesha, basthi pradesh, seevani pradesha, mehana pradesha were selected. Size of the calculi up to 10 mm. Mootrashmari irrespective of the site with mild to moderate hydronephrosis. The patients between the age group of 16-60yrs will be selected.

Exclusion Criteria

Patients associated with severe complications of systemic diseases with other comorbidities such as HIV, malignancy and Covid-19. associated **Patients** with complications of the urinary system along with ashmari were excluded. Renal calculi in pregnant woman.

Investigations

- i. Physical: colour, Specific gravity
- ii. Chemical: pH, Albumin.
- iii. Microscopic: R.B.C., Cast and Crystals, Epithelial cells and pus Cells) Radiological Examination: Plain X-ray

K.U.B.

c) Ultrasonographical study: K.U.B.

Study design

Minimum samples of 20 patients were randomly selected for the study and this is clinical study with pre-test and post study design.20 patients were treated with Punarnava Swarasa 20ml three

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times a day with *Kulatha yusha* as anupana given orally before food for 21 days. *Punarnava Swarasa* was freshly prepared daily and given in hospital.

Observational Period:

The patients were advised to come daily for a period of 3weeks during the course of treatment. Periodical observations were done once in a week.

Follow up period: The follow up period was fixed for a period of 3 months after completion of treatment to rule out recurrence of any symptoms. However patients were advised to consult immediately if they notice any urinary symptoms.

Assessment criteria Subjective-

(a) Pain abdomen:

Grade 0 - Absence of pain abdomen (No pain)

Grade 1 - Present but does not disturb routine (Mild pain)

Grade 2 - Present which disturbs routine (Moderate Pain)

Grade 3 - Patient rolls on bed due to pain (Severe Pain)

(b) Dysuria:

Grade 0 - Absence of pain during micturition

Grade 1 - Mild pain during micturition

Grade 2 - Moderate pain during micturition

Grade 3 - Severe pain during micturition

(c) **Hematuria:** Grade 0 - Absence of R.B.C.s in urine

Grade 1 - Microscopic Hematuria

Grade 2- Macroscopic Hematuria

Objective criteria:

Size of the stone

Site of the stone

Number of stone (All these criteria were

Assessed by Radiological / USG findings)

Result criteria:

Observation on change in Size of calculi:

No response -No change in size (10%) Poor response - In between to 24% of decrease in size

Mild response - In between 25% o 49% of decrease in size

Moderate response - In between 50% to 74% of decrease in size

Marked response - In between 75% o 99% of decrease in size

Exemplary response - Disappearance of stone from urinary tract (100%)

Observation on dislodgement of Calculus:

Grade 0 - Complete expulsion of calculus from its original site

Grade 1 - Partial Expulsion (Descent of the Calculus to any of the lower site from its original site)

Grade 2 - Same site

OBSERVATION

In the present series of observation it was found most of the patients were in the age group of 15-30 years. This might be due to the stressful work, irregular dietetics and habits, orientations towards different food, lack of proper regimens in daily routines etc. there by reducing the quantity of urine output in turn helping in the formation of stone. The incidence of moothrashmari was relatively more in males than in females in the present study and the ratios was almost 2:1. The prevalence relatively less ashmari is females. Most of the patients were employees2 housewives and belonged to upper middle class spontaneous were having irregular dietary habits and practice of less intake of water. People of any community appear to be equally susceptible to this disease. Out of 40 patients, 30 patients were no vegetarians and consuming more non vegetarian food is one among the cause for the formation of ashmari as it contains phosphorus and purine which may predispose to phosphate calculi. In this study clinical observation were found like Pain abdomen, Dysuria, Hematuria, etc. But pain abdomen was the common symptom which was present in all the patients.

RESULTS

Statistical evaluation of subjective parameters in 20subjects showed significant reduction in the abdominal pain by 72.97%, Dysuria by 78.12%, reduction in Hematuria by 83.4% after 21 days of treatment. Statistical evaluation of objective parameters showed significant reduction in size of the Stone by 52.51%, Response on Descent/Expulsion of Stones by 55%, after 21 days of treatment.

DISCUSSION

Punarnava shown swarasa Exemplary response in 45% Mild improvement in 30 % patients. Thus in the present study, the rate of reduction or elimination is very high when compared to the passage of Spontaneous passage is very likely when the stone is in the ureter and less than 4mm (90%). A stone more than 4mm and located in renal calyces is very unlikely to pass spontaneously. But in the clinical trial group 50% of the patients had above 4mm

size and in 72% the site was The biggest calvces. stone eliminated is 7mm, which indicate the therapy as very effective and the results of study were highly significant. Punarnava swarasa has significant role in the management of moothrashmari as a majority of patients showed a highly significant response through relief of symptoms, in reduction in size and elimination of stone.

Probable mode of action of Punarnava swarasa:

Atharvaveda. Punarnava is described and its use as Tridoshaghna, Kusthaghna, Rasayana, Jvaraghna, Kasahara. Sothahara and as Raktavardhaka .In Charaka Samhita it comes in Vayahsthapana Mahakashaya and in Rasayanaprakrana by name of Punarnaya. In Sushruta Samhita it explained in Vidarigandhadi Vatasansamana gana Tiktavarga. In Ashtanga Hridaya also it comes in Vidaryadi gana. acidic The drug reduces the alkalization. Acidic urine is the main cause for insolubility solutes. The alkaline urine prevents precipitation and growth crystals. It is rich in Vit-B which breaks down oxalic acid. helps in breakdown of calculi and its further recurrence. Anupana, kulatha yusha acts as Kaphagna and Vataghna. Its Ushna, Teekshna and Ashmarighna property breaksdown the stone. Watery extract of Kulatha acts as good inhibitor of stone formation. It has stone inhibitor phosphorus and Vit-

which the Α prevents stone formation.

CASE DISCUSSION

Case 1:

Mrs. Tulsabai 47 years old female, a Hindu patient, who is house wife resident of Tarwade, and Chalisgaon, has attended K.D.M.G.S Ayurvedic Medical College, Chalisgaon (MS) with the complaint of severe pain abdomen with moderate along dysuria associated with burning micturition and nausea since 3 days. There was history of similar complaints on and off since one and half year. Patient was not known case of Diabetes and Hypertension. She was vegetarian non prefer Madhura, snigdha ahara with ragi reaction of urine and helps in as a prime food. Her prakruhi was analyzed as kapha vataja and she belonged to jangala desha. Her pulse, blood pressure and other general conditions were within limits. normal On palpation, tenderness was elicited in left renal angle, hypochondriac, lumber and supra pubic regions. Her U.S.G. report revealed 7 mm. calculus in lower pole of left kidney. Urine finding showed the pH value of 6 microscopic examination and showed 2-3 pus cells. The patient administered 'Punarnava swarasa' along with kulatha yusha for 21 days. At the end of 1st week

the pain abdomen ad dysuria were reduced to mild degree whereas burning micturition and nausea were disappeared. At the end of 3rd week both pain abdomen, dysuria were disappeared and U.S.G. report revealed expulsion of calculus.

Case 2:

Mrs. Shahin shaikh, 46 years old, a female, who is house wife and resident of Chalisgaon, attended O.P.D. K.D.M.G.S Medical Ayurvedic College. Chalisgaon (MS), with the complaint of mild pain abdomen dysuria along mild burning micturition since 7 days. There was history of similar complaints on and off since 2 years. Patient was not known gase was non-vegetarian, has practice of taking more milk and less water with ragi as a prime food. Her prakruthi was analyzed as vatabelonged pittaja and she sadharana desha. Her pulse, blood general and other pressure were within conditions normal limits. On palpation, tenderness was elicited in right renal angle, hypochondric, lumber, umbilicus supra pubic regions. U.S.G. report revealed multiple (3.8, 4 and 4.8mm) small right renal calculi. Urine finding showed the pH value of 6 and rest within normal limits. The patient was administered 'Punarnava swarasa' along with kulatha yusha for 21 days. At the end of 1st week both pain abdomen and dysuria were Disappeared. At the end of 3rd week U.S.G. report revealed expulsion of all the calculi.

CONCLUSION

On the basis of the results of this study it can be concluded that Punarnava swarasa provided better relief to the patients of Ashmari particularly in reduction of pain, dysuria and expulsion as well as descending the stones. Therefore Punarnava swarasa is better in providing the relief to the patients of Mootrashmari. No recurrence was reported by the patients within of Diabetes and Hypertension. She months of follow up period as they had been instructed to drink sufficient quantity of fluid and dietary regimen to maintain adequate hydration and decrease chance of urinary super saturation with stone-forming salts.

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Conflict of Interest:

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Chaukamba

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Source of funding:

Non

https://doi.org/10.52482/ayurline.v5i03.553

Nil

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Cite this article:

Efficacy of Punarnava Swarasa in the management of Mutrashmari (urolithiasis) - a clinical study.

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Ayurline: International Journal of Research In Indian Medicine 2021; 5(3):01-08