

AYURLINE

International Journal of Research in Indian Medicine

Ayurvedic management of *mutrashmari* w. s. r. to *nephrolithiasis*: a case series.

¹Hanmante Suresh S.,²Hanmante Varsha S., ³Karade Ruchika S.

¹ Professor, Dept. of Sharir-rachana, B.R.Harne Ayurvedic Medical College, Vangani, Thane.

² Professor, Dept. of Sharir- kriya, B. R. Harne Ayurvedic Medical College, Vangani, Thane.

³ PG Scholar, Dept. Of Panchakarma, R. A. Poddar Medical Ayu College, Mumbai. *Corresponding author- <u>ruchikakarade1@gmail.com</u>

ABSTRACT:

Background: Mutrashmari (urinary

stones) is one among the *ashtamahagada* (eight conditions) fatal and is which kaphapradhantridoshajavyadhi, can be correlated with nephrolithiasis The recurrence rate is 50 to 80%. Males are more frequently affected than the female and their ratio is 4:3. The incidence is still higher in the age group between 30-45 years.Many treatment modalities have been adopted in medical sciences, but it is quite expensive and also the pathogenesis behind recurrence of formation of stone cannot be avoided. Hence, it is necessary to find out an economical effective, easily available medicine to treat mutrashmari. Objectives: The aim of this study was to evaluate the efficacy of panchakarma like virechana, yogabasti and shamanachikitsa in *mutrashmariw.r.t.* nephrolithiasis. to Materials and Methods: In this case series 3 patients with complaints of pain in abdomen and back, which was

radiating from loin to groin region; burning micturition; and dysuria were diagnosed as nephrolithiasis and treated. The patients were administered with panchakarma like virechana. vosabastiand shaman aushadhi. Results: **The** patient got significant results in chief and associated complaints. Conclusion: relief Satisfactory in symptoms were seen in patient of ayurvedic nephrolithiasis by management and there was no recurrence.

KEYWORDS:Mutrashmari,

Nephrolithiasis, Virechana, Yogabasti, Shamanachikitsa.

INTRODUCTION:*Mutrashmari*(urinar y stone) is one of the common diseases of urinary system yet more painful one. It is one among the ashtamahagada (eight conditions).⁽¹⁾It fatal is dreadful, potential to disturb the anatomy and physiology of urinary system and once it formed in the body, it has tendency of recurrence, therefore it is not easy to the Acharyas cure, thus call it mahagada.It is considered difficult to cure because of its marmaashravatwa due to involvement of *basti*.⁽²⁾Acharva Sushruta has described its complete pathophysiology in *nidansthana*. ⁽³⁾It is kapha predominance *tridoshajavvadhi*.⁽⁴⁾It is the formation of stony concretions in the bladder and urinary system. It is the common diseases of *mutravahastrotas* (urinary tract) that occur due to disequilibrium between stone inhibiting and promoting factors in the urinary system.The incidences of *mutrashmariare* increasing at the present era due to various reasons like altered food habits. changed lifestyle, stress, strain, environmental pollutions etc.

Mutrashmari is compared to urolithiasis or nephrolithiasis as per site of the formation stone. India. of In approximately 5-7 million patients suffer from stone disease $^{(5)}$ and at least 1/1000population of Indian needs hospitalization due to kidney stone disease. Thus, the disease is as widespread as it is old, particularly in countries with dry, hot climate⁽⁶⁾. These are "stone belt regions". The incidence of calculi varies as per geographical distribution, sex and age group. The recurrence rate is 50 to 80%. Males are more frequently affected than the female and their ratio is 4:3.⁽⁷⁾ The incidence is still higher in the age group between 30-45 years and incidence declines after age of 50.

Many treatment procedures have been adopted in medical sciences to treat the disease but it is quite costly and also the prognosis behind recurrence of stone formation cannot be avoided. In alternative medicines, mainly surgery is described to treat the one. So, there is a

need of such treatment which has properties like diuretic. splitting, scarification, breaking, and cutting; it facilitates the dissolution of the urinary this stones. Hence. in study. panchakarma chikitsa like virechana followed by vogabasti and shamanaaushadhi were selected for the management of *mutrashamri*.

AIM AND OBJECTIVE:

The aim of this study was to evaluate the efficacy of ayurvedicchikitsain the management of *mutrashmari* with special respect to nephrolithiasis.

MATERIAL AND METHODS:

In present study, three cases with sign and symptoms of *mutrashmari* were treated with panchakarma therapy like virechana followed by yogabasti and shamanaaushadhi. Assessments were done in criteria like pain in abdomen, dysuria, serum creatinine and ultraand after the treatment as follows.

Pain abdomen: Pain was assessed by VAS (Visual Analogue Scale): By gradation method, Grade 0: Absence of pain/No pain; Grade I: 1 to 3 mark on scale (mild pain); Grade II: 4-6 (moderate pain); Grade IV: 7-10 (severe pain).

Dysuria: was assessed by history of pain and radiation during micturition. Grade 0-Absence of pain during micturition; Grade 1-Mild pain during micturition; 2-Moderate Grade pain during micturition; Grade 3-Severe pain during micturition.

Serum creatinine: was assessed by routine urine examination.

USG: was assessed before treatment and after treatment and was presented with Present (1) and Absent (0), size of stone was seen.

CASE SUMMERIES:

CASE 1 – A 22 years male patient came with complaints of pain in abdomen associated with difficulty in urination from 1 month. Patient was asymptomatic one month ago. One day he suddenly felt severe pain in the abdomen and vomiting and fever. He took allopathic treatment and got temporary relief from the complaints. Later he observed that pain in abdomen and flank region, dysuria and decreased in frequency of urination. that the pain Patient stated was intermittent and colicky in nature. Dysuria felt by patient normally at beginning of urination which was pricking type. Diet history revels that his food intake was irregular and had junk food. His occupation was quite stressful. On examination the abdomen there was and was on regular medication from 5 tenderness elicited in the both side of lumbar region and right side of renal angle. He was advised USG of abdopelvis revealed that in right kidney calculus of size 6.2 mm was present at night renal lower pole. Mild hepatomegaly with diffuse fatty changes was seen. There was no obstruction and hydronephrosis. haematological In investigation level of serum creatinine was found to be increased (Table no. 2).

CASE 2 – A 47 years old male patient came with complaint of severe pain in right flank region associated with nausea, burning micturition, pain radiating to groin region intermittently from 2 months. Pain started gradually with

increase in pain intensity. Patient was taking modern analgesics tablets but didn't get relief. USG abdomen was advised suggestive of right renal calculi of size 4.2 mm in mid and 7.5 mm at upper pole with hydronephrosis. Left kidney showed simple cortical cyst of size 25 x 26 mm upper pole (Table no. 2) Patient was taking milk in diet frequently and has sedentary lifestyle. He was known case of hypertension and was on medication from 5 years.

CASE 3 - A 50 years old male patient came with complaints of abdominal pain and it was found that pain was intermittent and colicky in nature and it was present on right side of the abdomen which was radiating to groin region, micturition normally difficulty in beginning of urination which was pricking type, burning micturition sometimes and occasionally dark yellow coloured smoky urine from past 1 month. He has known case of diabetes mellites taken allopathic vears. Patient has medicines but was not satisfied. In personal history, it was found that patient was non-vegetarian, insufficient water sedentary lifestyle intake. and suppression of natural urges. He has addiction of alcohol from past 20 years. USG abdomen showed a 7.2 mm calculus at mid pole of right kidney. There was no hydronephrosis or calculus on left side. Mild multiple irregularity with multiple echogenic foci seen in bladder. In haematological urinary investigations, serum creatine was seen to be increased (Table no. 2).

TREATMENT MODALITY

Table no. 1: Treatment given in Mutrashmari

Sr.	Chikitsa	Drug	Anupan	Dose	Duration
No. 1	Deepan - pachana	Amapachakavati	Koshnajala	500 mg after meal BD	5 days
2.	Snehapana	Mahatiktaghrita	Koshnajala	50ml- 100 ml-150 ml	3 days
3.	Gap days	-			1 day
4.	Virechana Sansarjana krama	TriphalaKwath Erandtaila Madhu Abhayadimodak Ichhabhedi rasa Peyadi krama		20 ml 40 ml 30 ml 2 tab 3 tab	1 day 5 days
5.	Yogabasti Niruha Anuvasana	Mutralkashay+ Madhu+ Tilataila+ saindhav Tilataila+ mutralkashay		500 ml 100 ml	8 days
6.	Shamanachikitsa	 Chandraprabhava ti Gokshuradi restare guggul Shwetparpati Tankanbhasma 		120 mg 120 mg 5 gm 5 gm	

OBESERVATION AND RESULT:

Table no 2: Assessment before and after treatment in nephrolithiasis

Sr.	Criteria	Case 1 Case 2		se 2	Case 3		
no.							
		BT	AT	BT	AT	BT	AT
1.	Colic pain	Grade	Grade 0	Grade	Grade I	Grade	Grade I
		IV		III		IV	
2.	Dysuria	3	1	3	0	3	1
3.	Burning	Present	Absent	Present	Absent	Present	Absent
	micturition						
4.	Serum creatinine	3.1	2.3	7.47	3.9	1.47	0.92
5.	Size of calculi	6.2 mm	No	7.5	No	7.2	No
			calculus	mm	calculus	mm	calculus
6.	USG	1	0	1	0	1	0

Follow-up and Outcome After treatment, patient got relief in all symptoms with improvement of associated also complain. Reduced in Pain, relief in burningsensation during urination, relax during forcible urination, lower abdomen is softno tenderness at renal angle, vomiting was stop, digestion was good, no weakness, fever was subsided. During follow-up period patient had informed that after days the calculus was expelled out and he experienced extreme pain and disturbance in the urine flow and no signs of recurrence were noticed. (figure no. 1, 2)

Figure no 1: Size of calculus before and after during treatment







Figure no 2: USG reports before and after treatment





DISCUSSION:

In case of *mutrashmari* we need therapy and medicine which act astridoshashamak, mutral. deepanpachan, nirama.shoolaghna. chedaniya, bhedaniya and lekhaniya, ashmaribhedana, mutrapravrittikarak, sadhva. So according to Samprapti, virechana, yoga basti karma(~combination of medicated enema) with combination of shaman aushadhichandraprabhavati, gokshuradi guggul, shwetparpati and tankan bhasma gives best result in this disease. In the classics this is mentioned in pramehachikitsa, mutrakricchrachikitsa and *ashmarichikitsaadhyaya* combinely

act on *mutravahasrotasvyadhies* having the properties doshakarmata (~action on vital forces) tridoshashamaka, dhatu karmata (action on body elements) act on medohara, balya, vrishya, rasayana, agnikarmata (action on digestive fires) deepanapachana, mala karmata (action on excretory system)mutral, vibandhhara. srotokarmata (action onchannels) srotoshodhana, lekhan. The action of every drug is determined by the dominant pharmacodynamics factors. The line of treatment in Ayurveda is mainly based on doshachikitsa(treatment).

As shodhanachikitsain yogabastikarma mutralkwatha was used as a niruha karma. Its actionsdepend on the ingredients of basti.The main ingredient

IRVEDA

of basti includesaindhava, makshika, Sneha, kalkaandkwatha. It reaches up to micro channels of body due to sukshmagunaIt breaks morbid mala and doshasanghaatdue to tikshnagunaand liquefies the *doshas*due to snigdhagunaproperty.Kalkaby its irritant property eliminates the basti (induce colonic distension due to irritant property), kwathaup to homogeneous mixture. It facilitates the absorption of endotoxin and produce detoxification elimination.⁽⁸⁾Kwathaduring *mutralkwatha*possess all the needful properties like

kaphahara(~antiphlegmatic),

lekhana(~sraping)and

mutrala(~diuretics). The possibility of the absorption of *bastidravyas* (~drugs) through colon works due to its fatsoluble property. Snigdhaguna of basti produces softness and wetness in body which in turn help for easy eliminations of doshas and mala with increases permeability of cell membrane. Apart from these functions, it also protects the rouse mucus membrane. By taking all the above-mentioned discussion into consideration that the overall effect of all treatment regimen planned in this patient was diuretic, splitting, scarification, breaking and cutting, it facilitates the dissolution of the urinary stone.

ChandraprabhaVati -It hasproperties like tikta, katu, kashya, lavanakshar rasa vishada, pradhan. laghu, ruksha. sukshma, sitoshna and prabhava karma kaphahara, aushadha, jantughna, puyahara, shula hara, mutral. It has multi-dimensional action and effective for acute and chronic cases. Broad spectrum antibiotic, tonic (Strengthen nerves) for urogenital system, antiinflammatory, immunomodulator etc.⁽⁹⁾

Gokshuradi guggul- diuretic, antiinflammatory, and muscle relaxation actions, which has been used in genitourinary infections, painful micturition, dysuria and benign prostatic hyperplasia.⁽¹⁰⁾

COCLUSION:

This study provides an example of successful management of nephrolithiasis with Ayurveda treatment alone and without using any modern analgesics. This study also gives leads for the experiments on role of panchakarma in the management of pain. Clinical trials on Ayurveda management of *mutrashmari*(nephrolithiasis) are warranted.

REFERENCES:

- Sharma PV, editor. Ashmarichikitsaadhyaya. Verse 3. In: Sushruta, Sushruta Samhita, Chikitsasthana. Varanasi, India: ChaukhambhaSurbharatiPrakashan ; 2013. p. 234.
- Sharma PV, editor. Ashmarichikitsaadhyaya. Verse 37-38. In: Sushruta, Sushruta Samhita, Chikitsasthana. Varanasi, India: ChaukhambhaSurbharatiPrakashan ; 2013. p. 240
- Sharma PV, editor. Ashmarinidanadhyaya. Verse 1. In: Sushruta, Sushruta Samhita, Nidansthana. Varanasi, India: ChaukhambhaSurbharatiPrakashan ; 2013. p. 481.
- 4. Sharma A, editor. Ashmarinidanam. Verse 1. In: Text book of Madhavnidan. Vol 1. Pune, India: ChaukhambaSanskritaPratishtan; 2007. p. 506.
- 5. Norman S Williams (2010) Bulstrode. Bailly & Love's short practice of Surgery. Chapter 71.

(25thedn), Hodder Arnold publishers, London. Townsend CM. Beauchamp D. Mattox KL (2010)Sabiston Textbook of editor. Surgery. In Sabiston Textbook of Surgery. Elsevier publications, Newdelhi.

- KavirajAmbikadutt Shastri (2001) Sushrut Samhita with AyurvedtatvaSandipika Hindi commentary, Nidaansthan ³/₄. (Reprint edition), Choukhambha Sanskrit Sansthan, Varanasi.
- 7. Amitkumarsingh (2009) Comparativeclinical Study in the Management of Mootrashmari with

KulatthaChurna and Swetaparpati, MD Thesis. RGUHS, Bangalore.

- Subina S., Pratibha C.K., Ananda raman P.V., Prashanth D., Understanding the mode of action of basti karma (medicated enema): Anveshna Ayurveda medical journal, Volume 1, Issue 4, July – August 2015, Page 267- 274.
- Muhammed S.V., SAMS, urinary system diseases, prameha chapter 2 Volume 1 third edition page no 405
- 10. Muhammed S.V., SAMS, urinary system diseases, mutrakrchra&mutraghata chapter 1 Volume 1 third edition page no 393

Conflict of Interest:DOISource of funding:Nonhttps://doi.org/10.52482/ayurline.v5i03.534NilCite this article:Ayurvedic management of mutrashmari w. s. r. to nephrolithiasis: A case series
Hanmante Suresh S.,Hanmante Varsha S., Karade Ruchika S.Ayurline: International Journal of Research In Indian Medicine 2021; 5(3):01-07

