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Clinical effect of *Ashmarihara Kwatha* in the management of *Mootrashmari* (Urinary calculus) - Short communication

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Abstract:

Mootrashmari is most common disease of urinary system and is considered as one among the Ashtamahagadas by our Acharya and is one of the most important disease of Mutravahasrotaswhere both medicinal and surgical interventions are required. It is correlated with urolithiasis and now a days due to food and lifestyle variations it has become a global problem. In the present study an effort has been made to evaluate the efficacy of Ashmariharakwatha. This formulation is Anubhuta Yoga of Pharmacy Gujarat Ayurved University, Jamnagar. The main aim of this particular study was inclined towards the disintegration, dissolution and dislodgement and expulsion of renal stones. Total 20 patients were treated with Ashmarihara kwatha, 20 ml, twice daily, after food for 60 days. After completion of study symptomatic relief was noted with Ashmarihara kwatha in all patients and stones in 11 patients were expelled out. The study concluded that Ashmarihara Kwathaa single formulation is found effective in improving the symptoms of Ashmari.

Keywords: *Ashmari, Ashmarihara kwatha, Ashtamahagada, Mootrashmari,* Renal Calculus, urinary stone

Introduction:

Mootrashmari is one of the most important disease of Mutravahasrotas where both medicinal and surgical treatment are advised and also it is considered among the Ashtamahagadas. [1-2] It is correlated with Urolithiasis in modern paralance. It is a common malady and can form denovo anywhere within the urinary tract. [3] The pathophysiology differs according to the site of origin. Urinary stone can recur, with lifetime recurrence risks are reported to be very high as 50%. It forms when urine becomes supersaturated with respect to the specific components of the stone. In India almost 5-7 million persons suffer from

stone disease and at least 1/1000 of Indian population needs hospitalization. Thus the disease is as widespread as it is old particularly in countries with dry, hot climate they are "stone belt regions". In Gujarat, particularly in Saurashtra region the incidence of *Mootrashmari* is increasing day by day because of high salt content of water. The recurrence rate is also very high i.e. 50-80%, male are more frequently affected than female (ratio 4:3). The incidence is still higher in the age group between 26 to 50 years of age.

In Ayurveda various drugs are mentioned in order to cure *Mootrashmari* which are

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not only expensive but chances of recurrence are also not ensured by them. Therefore there is a need to find out efficient and economical medicine to treat it. Ashmarihara kwatha has been used effectively to treat renal ailments since years, in OPD and IPD of IPGT & RA hospital Jamnagar. [4] This formulation is effective and easy to administer so this has taken for treatment purpose. Ashmarihara Kwatha is having antiinflammatory, diuretic, antilithic property through which acts on the stone helps in the treatment and Mootrashmari. So this study has been planned to evaluate the therapeutic effect Ashmarihara Kwatha in the management of *Mootrashmari*.

Material and Methods:

Patients having signs and symptoms of *Mootrashmari* (Urolithiasis) that are pain in the renal angle and loin region radiating towards groin, burning micturition, hematuria, vomiting were selected irrespective of sex, religion, occupation from OPD and IPD of Shalya Tantra, I.P.G.T.&R.A.Hospital, Jamnagar.

Inclusion criteria:

All Ashmari patients of age group 18-60 years with stone at kidney and ureter

having stone size up to 15 mm were included in the study.

Exclusion criteria:

Stone size more than 15 mm with severe hematuria and renal failure were excluded from study. Patients of carcinoma, Tuberculosis, HIV, Hepatitis-B, VDRL positive cases were excluded from study.

Laboratory investigation:^[6]

Hb%, CBC, ESR, FBS. Blood Urea, Serum- Creatinine, uric acid, Calcium. etc. **Urine examination:** Routine & Microscopic.

Plain X-ray abdomen and USG for Kidney, Ureter and Bladder (KUB) region.

All the above mentioned investigations were carried out before and after treatment. Changes in the values and in sign and symptoms were recorded in the research proforma.

Drug:

Ashmarihara kwatha, [8] 20 ml with thrice a day was given for 60 days (Table-1).

The patients were assessed on the basis of the subjective parameter [Pain in abdomen, Hematuria, Dysuria] and objective parameters [size of stone, site of stone and number of Stone] before and after treatment.

Table-1: Ingredients of *Ashmarihara kwatha***:**

Ingredients	Latin names	Quantity		
Pashanabheda	Bergenia ligulata (Wall.) Engl.	1 Tola		
ShakaPhala	Tectona grandis Linn.	1 Tola		
ErandakarkatiMula	Carica papaya Linn.	1 Tola		
Shatavari	Asparagus racemosusWilld.	1 Tola		

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Gokshura	Tribulus terrestris Linn.	1 Tola
VarunaTwaka	Crataeva nurvala BuchHam.	1 Tola
KushaMula	Desmostachya bipinnata Stapf.	1 Tola
KashaMula	Saccharum spontaneumLinn.	1 Tola
TandulaMula	Oryza sativa	1 Tola
Punarnava	Boerhavia diffusa Linn.	1 Tola
Guduchi	Tinospora CordifoliaWilld	1 Tola
ApamargaMula	Achyranthes aspera Linn.	1 Tola
TrapushaBija	Cucumis sativus Linn.	1 Tola
Jatamansi	Nardostachys jatamansi DC.	2 Tola
Ajamoda	Carum roxburghianum (DC) Craib.	2 Tola

Table-2: Effect of therapy on size of stones:

Effect on stone	1-5 mm	6-10 mm	> 10 mm	Total	Percentage
Expelled	9	5	2	16	33.33%
Decrease	3	3	7	13	27.08%
No change	1	3	4	8	16.66%
Increase	8	3	0	11	22.91%
Total	21	14	13	48	100%

Table-3: Effect of Ashmarihara Kwatha on Chief Complaint: n=22

Chief Complaints	Mean		Diff.	%	W	N	P
	BT	DT		Change			
Pain (Vedanaa)	2.55	0.95	1.60	62.74	190	19	< 0.0001
Mootradhara Sanga	1.50	0.20	1.30	86.67	105	14	< 0.0001
(Interrupted urine flow)							
SarudhiraMootrataa	0.45	0.10	0.35	77.78	21	06	< 0.05
(Haematuria)							
Ati AavilaMootrataa	0.55	0.15	0.40	72.72	18	06	> 0.05
(Turbid urine)							
Increased frequency of	0.65	1.15	-0.50	-76.92	-75	14	< 0.05
micturition							
Burning Micturition	1.50	0.40	1.10	73.33	127	16	< 0.001

Observations and results:

All the patients were advised to take similar dietary regimen. The duration of treatment was 60 days and clinical assessment was done in every 15th day interval. The initial findings through clinical, pathological and radiological statements were compared with the result

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of progressive15th day and 30th day and so on. Finally the assessment as a whole was presented in percent value. In order to present the study in the scientific manner the statistical assessment of the result were assessed of result mean \pm S.D. of each sign and symptom before treatment was compared with mean \pm S.D. after treatment, t test was used for the purpose of the test of significance the effectiveness of *Ashmariharakwatha* and was assessed through p-value.

In this study, all patients were treated with Ashmarihara Kwatha in which 21 stones of less than 5 mm size were found, out of which 9 were expelled out, 3 were decreased in size, no change was observed in 1 stone whereas 8 stones were increased in size. Total 14 stones of 6-10 mm size were found, out of which 5 stones were expelled out, 3 stones were decreased in size, no change was observed in 3 stones whereas 3 stones were increased in size. Total 13 stones of more than 10 mm size were found, out of which 2 stones were expelled out, 7 stones were decreased in size, no change was observed in 4 stones whereas no stone was increased in size (Table-2).

Among total 48 stones, 46 kidney stones of different sizes were found in 20 completed cases. 32.61% stones were expelled out, 28.26% stones were found with decreased in size and no change was observed in 15.22% stones whereas increase in stone size was observed in 23.91% of stones. Out of 48 stones, 2 ureteric stones of different sizes found in 20 completed cases. One (50.00%) stone was expelled out and one another

(50.00%) stone was found with no change in size. Out of 20 patients in this study 8 patients (40.00%) were cured, 6 patients (30.00%) were got marked improvement, 4 (20.00%) patients were got moderate improvement and no improvement was seen in 2 (10.00%) patients.

In this observational study, statistically highly significant results were observed in pain (*Vedanaa*), *Mootradhaaraa Sanga* and burning micturition. Statistically significant results were observed in haematuria (*Sarudhira Mootrataa*) and increased frequency of micturition. Insignificant result was observed in feature of *Ati Aavila Mootrataa* (Turbid urine) Table-3.

Discussion:

From the present study it becomes evident that urological problems form an important part of medical deliberations. completion of treatment statistically highly significant results were observed in pain (Vedana), Mootradhara Sanga and burning micturition. Statistically significant results were observed in haematuria (Sarudhira Mootrata) and increased frequency of micturition. Insignificant result was observed in feature of Ati Aavila Mootrataa. Most of the ingredient have Tikta-KashaayaPradhanRasa, Laghu Ruksha Guna, Sheeta Veerya, Katu Vipaka and Vatakapha Shamaka properties & have Mootrala. Vedana sthaapana, Anulomana and Bastishodhana Karma. It causes relief in symptoms of Ashmari by VataKaphaShamana, Vedanaasthaapana, Shothahara, Mootrala, Rasayana and Anulomana properties.

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It helps in disintegration of Ashmari by Laghu Ruksha Guna and Vata-Kapha Shamana and also Yava Kshara used as Prakshepadravya added some Lekhana and Chhedana properties. It helps in expulsion of Ashmari by Mootrala, Bastishodhana and Anulomana properties.It also corrects Agni by Pachana and Anulomana property, so prevents formation of Aama, causes Pachana of AamaDashes and breaks the pathogenesis of Ashmari leading prevention of further Ashmari formation. Ashmarihara Kwatha is proved effective drug in treatment of Ashmari which helps in removal of stone as well as corrects the *Agni*& metabolism.

Conclusion:

This observational study concluded that *Ashmarihara Kwatha* showed symptomatic relief in the management of *Mootrashmari* (urinary calculus). Further study to be done with comparison with standard controlled group for its scientific validation.

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