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Management of Mutrashmari by ayurvedic formulations with special reference to Ultrsonography - a case study

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Abstract:

Ashmari (urinary stones) is the condition in which there is formation of a substance like stone. Mutrashmari (urinary stone) is one among the Ashtamahagada (eight fatal conditions).

The lifetime prevalence of symptomatic urolithiasis is 10% in men and 5% in women, and the chance of the second stone formation within 5–7 years is approximately 50% of population due to the daily lifestyle and the dietary pattern of the peoples.

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 but as per Acharya Sushruta he said that before going for surgical procedures one should try with oral medications such as medicated alkali preparation, decoction, medicated ghee, and medicated oil, which possesses the properties such as diuretic, splitting, scarification, breaking, and cutting; it facilitates the dissolution of the urinary stones. Hence, it is necessary to find out an economical, easily available, cost-effective, and acceptable medicine to treat Mutrashmari. Hence, in this clinical study, ayurvedic formulations were selected for the management of Mutrashamri.

Keywords: Mutrashmari, urolithiasis, ayurvedic formulations.

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Introduction-

Ashmari (urinary stones) is the condition in which there is formation of a substance like stone. Mutrashmari (urinary stone) is one among the Ashtamahagada (eight fatal conditions). It is considered difficult to because of its Marma cure Ashrayatwa due to involvement of Basti, which is one of the TriMarma (three vital being the Vyakta parts). Sthana. It is *Kapha* predominance *Tridoshaja*

Vyadhi. As per the clinical features, it is compared to urolithiasis. It is the formation of stony concretions in the bladder and urinary system. It is the common diseases of *Mutravaha strotas* (urinary tract) that occur due to disequilibrium between stone inhibiting and promoting factors in the urinary system.

Urolithiasis is an effect of complex physicchemical process, which involves sequence of events in the formation of any urinary stone, including urinary saturation, super saturation, nucleation and the growth of crystals, aggregation and retention of crystal, and finally formation of stone.²

The lifetime prevalence of symptomatic urolithiasis is 10% in men and 5% in women, and the chance of the second stone formation within 5–7 years is approximately 50% of population due to

the daily lifestyle and the dietary pattern of the peoples.³

Increased percentage of urolithiasis in this world is associated with improved standard of living. A urinary stone is the major cause of morbidity and is strongly associated with race, ethnicity, and region of residence. A diet that is rich in cereals and pulses, intake of fruits such as grapes and oranges and fluoride-rich water, and intake of fruits such as oranges and grapes plays a vital role in the occurrence of urinary stone

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 but per Acharya Sushruta he said that before going for surgical procedures one should try with oral medications such as medicated alkali preparation, decoction, medicated ghee, and medicated oil, which possesses the properties such as diuretic, splitting, scarification, breaking, cutting; it facilitates the dissolution of the urinary stones. Hence, it is necessary to find out an economical, easily available, cost-effective, and acceptable medicine to treat Mutrashmari. Hence, in this clinical study, ayurvedic formulations were

selected for the management of *Mutrashamri*.

Aim & objectives-

Aim-To evaluate the efficacy of ayurvedic formulations in the management of Mutrashmari with special reference to ultra-sonography.

Objectives-

- 1) To study the Mutrashmari as per ayurvedic view
- 2) To study sign symptoms of Mutrashmari
- **3)** To study the effect of ayurvedic formulations on Mutrashmari.

Consent-

Informed consent of the patient is taken in his own language.

History & present illness- A 52 year male patient approached in OPD presenting with c/o pain in abdomen (Right loin region pain & left iliac-fossa) & difficulty in urination, these symptoms occurred since 2 years, increased from 1-2 months.

Past history-

The patient had a history of the same complaint, for that he underwent lithotripsy in 2020.

Personal history-

Food habits: Spicy and salty food; *Ruksha Ahar* (poha, bread, and toast), Curd Lifestyle: Insufficient water intake, sedentary lifestyle, and suppression of natural urges. Sleep: Disturbed due to pain

On examination-

General examination-5,6

Built – Moderate, Nourishment – Moderate,

Temperature- 98.4 F, Respiratory rate -

20/min,

Pulse rate – 76 B/M,

B.P -

120/70 mm of Hg,

Weight - 70 Kg, Pallor – Absent

Edema – Absent, Tongue - Uncoated

RR- 18/Min RS- B/Lclear CVS-

S1S2 normal

CNS - Conscious oriented

P/A- Tenderness+

Ashtavidha Pariksha-7

| Sr | Particulars | Result | |
|----|-------------|-------------------------|--|
| no | | | |
| 1 | Nadi | 76/ min | |
| 2 | Mala | Prakrut | |
| 3 | Mutra | Difficulty in urination | |
| 4 | Jivha | Saam | |
| 5 | Shabda | Spashta | |
| 6 | Sparsha | Ruksha | |
| 7 | Druk | Prakrut | |
| 8 | Aakruti | Madhyam | |

DASHAVIDHA PARIKSHA:7

- 1. Prakruti Vata + Pitta
- 2. Vikruti Madhyama
- 3. Sara Madhyama
- 4. Samhanana Madhyama
- 5. Pramana Prakurata
- 6. Satmya Madhyama

- 7. Satva Madhyama
- 8. Aahara Shakti-

Others: Abhyavaharana- Shakti-Madhyama , Jarana Shakti- Madhyama

- 9. Vyayama Shakti- Madhyama
- 10. Vaya Madhyama

RADIOLOGICAL

INVESTIGATIONS-

Ultrasonography finding on Before treatment (Dated:07/02/2022)

Right kidney shows single non obstructive renal calculus measuring 4.6 mm in the upper calyx.

Left kidney shows mild degree hydro nephrosis & upper hydro ureter due to a mid-ureteric calculus measuring 12.5 mm.

Treatment advised-

By analyzing the above pathogenesis of disease in this patient following treatment plan was prescribed for 3 months, which can be categorized as-

| Sr | Drug | Dose | Time of admi |
|----|------------------|-------|--------------|
| no | | | nistration |
| | Kwath of | | |
| 1 | these churna | 50 ML | Empty |
| | in same | NITED | stomach BID |
| | quantity(5 gm | HILL | INMITON |
| | each) | DISC | IPLINA |
| | Gokshur,Puna | | |
| | rnava, | | |
| | Bhumyamalki, | | |
| | Pashanbhed | | |
| | Churna 8,9,10,11 | | |
| | 1 | | I |

| 2 | Apamarg | Small | With kwath |
|---|----------------------------|-------|------------|
| | kshar ^{8,9,10,11} | pinch | |
| | | (20mg | |
| | |) | |

Method of preparation-

Take each 5 gm of Gokshur, Punarnava, Bhumyamalki, Pashanbhed churna in 120 ml of water & boil it. After decocation 50 ml of prepared kwath which will be taken on empty stomach.

Assessment of patient-

Overall assessment of the therapy was made based on the improvement in pain, *Mutra Pravrutti*(difficulty in urination) and ultra-sonography (USG) finding-

| Complaints/ | 0 | ∞ → | 60 | 90 |
|---------------|--------|--------------------|------|-----|
| days | | 1 | | |
| | | - | | |
| Pain in | Severe | Moderate | Mild | Nil |
| abdomen | | | | |
| Difficulty in | Severe | Moderate Programme | Mild | Nil |
| urination | - | | | |

Observation & result-

In the first follow-up, the patient informed that the severity of pain &difficulty in urination is decreased.

In the second & third follow-up, the patient informed that, he gets complete relief from pain & difficulty in urination but stone was not expel outside.

But in this period of treatment he is taking irregular medicines. So that's why we

again continue the same treatment for next 3 months. After 3 months USG was done.

Ultrasonography finding After Treatment (Dated: 5 August 2022)

Right kidney shows two non-obstructive renal calculi measuring 5.1 mm & 3.4 mm in the upper & mid calyx respectively.

Left kidney shows mild degree hydronephrosis & upper hydroureter due to a lower ureteric calculus measuring 12.7 mm.

After taking regular medicine for 30 days, from the last USG patient came for follow-up & told that expelled out of 2 calculi during urination. After 2 calculi expelled out then we start only pashanbhed kwath. He is taking medicine continuously. After 3 months repeat USG was done.

Ultrasonography findingon 2 November 2022-

Left kidney shows mild degree hydronephrosis & upper hydroureter due to a lower ureteric calculus measuring 12.3 mm.

After USG we changed the some medicine for 1 month & shifted on-

| Sr | Drug | Dose | Administratio |
|----|-------------|-------|---------------|
| no | _ | | n |
| 1 | Chandraprab | 2 | After meal |
| | ha vati | table | |
| | | t TID | |

| | 2 | Gokshuradi | 2 | After meal |
|---|---|--------------|-------|------------|
| | | guggule | table | |
| | | | t TID | |
| | 3 | Brihat | 20 ml | After meal |
| | | varunadi | with | |
| | | kwath | warm | |
| | | | water | 0 |
| | 4 | Dashmularish | 20 ml | After meal |
| | | ta | with | 0 |
| | | | warm | 4 |
| 1 | | - 7/6 | water | |

On 29 November lower ureteric calculus measuring 12.3 mm was expel outside during urination.

On the next day we started brihat varunadi kwath 20 ml early morning for 21days as a part of apunarbhav chikitsa with one week gap after 21 days.

Discussion-

Many treatment modalities have been adopted in medical sciences to treat the diseasein

the Chikitsasutra of Mutrashmari.

Acharya Sushrut said that before going for surgical procedures one should try with oral medications such as Kshara Kalpana (medicated alkali preparation), Ghrita (medicated ghee), and Taila (medicated oil), which possesses the properties such as Chhedana (cutting/breaking), Bhedana (splitting), Lekhana (scarification),

and Mutrala (diuretic),

and *Kwath* (decoction) for facilitating the disintegration of the urinary stones. Hence, as per *Chikitsa Sutra* in this clinical study, a *Apamarg kshar* and other *Shaman Aushadhi* were selected for the management of *Mutrashamri*.

Apamarg kshar-It acts as a natural diuretic. Hence useful to relieve dysurea(difficulty in urination).

Gokshura-According to charak gokshura is described as mutra virechaniya also due to madhura vipaka it decreases pain in uroliathiasis.

Punarnava & Bhumyamalki — As Punarnava & Bhumyamalki defined as a shothaghana in Bhavprakasha i.e. used to reduce edema by increasing urine output. In this case punarnava increases urine output which enhances expulsion of urinary stones.

Pashanbhed- According to charak Pashanbhed is very effective in cutting of stones & diuretic action, the term used is asmabheda which reflects decreases the concretion of urinary stone which is essential for expulsion of stone

CONCLUSION-

The result revealed that renal calculi can be cured with ayurvedic *Shaman Chikitsa* and lithotripsy,other surgical interventions can be avoided. Now till date there is no need to patient to undergo any

surgical intervention as well as there is no recurrence of symptoms. This study is about the presentation of the single case study only. An attempt must be made for further exploration of effect of this *Shaman* therapy in large population for establishing standard treatment protocol.

References-

- Charak samhita, vidyotini hindi commentary by Pandit Kashinath Shastri, Choukhambha publication 7th edition part 1, chapter 4 page no 66,67.
- Davidsons principles & practice of medicine edited by Christopher Haslett & others 19th edition chapter no 14,page no 632-634
- 3. Ayurveda management of *Mutrashmari* with special respect tourolithiasis: a case study, Snehal V. Bhende, Shweta Parwe, 2020 Journal of Indian System of Medicine, Published by Wolters Kluwer Medknow page no 189-193.
- 4. Sushruta samhita of sushruta with Nimabandh sangraha commentary of shri Dalahanacharya edited by Vd.Yadavji Trikamji Acharya choukhambha publication 8th edition Nidan sthana chapter3/16-19 page no-279

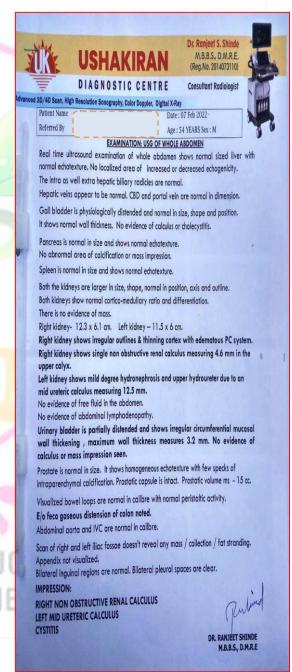
- 5. Practical medicine, PJMehta20th edition 2017, page no-10,36,39,56,124,189,266.
- Clinical examination- Modern & Ayurved, Dr. S.B. Ranade & Dr.
 R.R. Deshpande, Narendra Prakashan chapter 20, page no 132.
- 7. Rogi pariksha vidhiby Prof. P.V.Sharma, choukhambha bharati academy pratham adhayaya rogipariksha ka prayojan page no 6.
- 8. Charak samhita, vidyotini hindi commentary by Pandit Kashinath Shastri, Choukhambha publication 7th edition part 1, chapter 4 page no 66,67.
- 9. Sarth Bhavprakash translated by Ayurvedacharya Purushottam Nanal, Raghuvanshi Prakashan, purva khanda Guduchyadi varga Shloka no 43-45, page no 128.
- 10. Sushruta samhita of sushruta with Nimabandh sangraha commentary of shri Dalahanacharya edited by Vd.Yadavji Trikamji Acharya choukhambha publication 8th edition Nidan sthana chapter3/16-19 page no-279.
- 11. Raj nighantu of pandit Narhari edited with dravyaguna prakashika hindi commentary by Dr. indradev tripathi, chaukhambha publication

6th edition, parpatadi varga page no 123 shloka no 93.

Appendix

1: Reports/Pictures

Figure 1.1 Before treatment USG Report



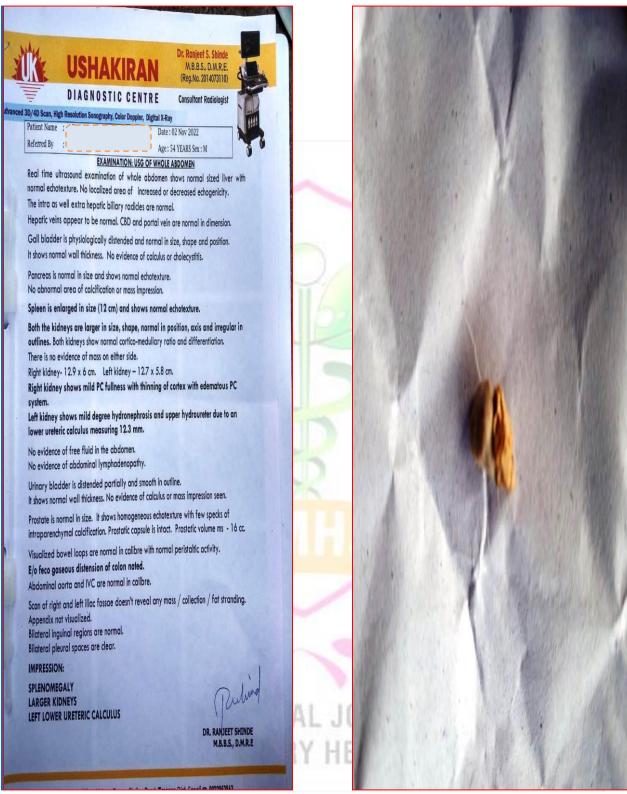


Figure 2.2 After treatment USG Report

Figure 3.3 After treatment expulsion of renal calculi