ISSN 2456-3110 Vol 7 · Issue 8 September 2022



Journal of Ayurveda and Integrated Medical Sciences

www.jaims.in

Indexed

An International Journal for Researches in Ayurveda and Allied Sciences





Journal of Ayurveda and Integrated Medical Sciences

REVIEW ARTICLE September 2022

Mutrakruchha according to Ayurvedic Literature

Sanjay Babar¹, Asit Kumar², Chaturbhuj Bhuyan³

¹HOD & Professor, Dept of Shalya Tantra, Dr.D.Y.Patil College of Ayurved and Research Center, Dr.D.Y Patil Vidhyapeeth, Pimpri, Pune, Maharashtra, India.

²Final Year PG Scholar, Dept of Shalva Tantra, Dr.D.Y.Patil College of Ayurved and Research Center, Dr.D.Y Patil Vidhyapeeth, Pimpri, Pune, Maharashtra, India.

³Professor & Guide (PhD), Dept of Shalya Tantra, Dr.D.Y.Patil College of Ayurved and Research Center, Dr.D.Y Patil Vidhyapeeth, Pimpri, Pune, Maharashtra, India.

ABSTRACT

Difficulty in passing urine, associated with pain is termed as Mutrakruchha. According to Ayurvedic literature, Mutrakruchha has been classified as 8 types by Charak as well as Sushrut. The classification is made according to Doshas The term Mutrakrichha comes under the disorders of Mutravaha Srotas, description of this disease is mentioned in almost all classical texts which reflects its prevalence in ancient period. It is a disease involving Basti Marma. As Basti is one among the Trimarma (main three vital organs), it has great therapeutic importance. Acharyas has mentioned and elaborately explained the Mutrakriccha and its type in comprehensive manner. As manifestation of Mutrakriccha and lower urinary tract infection are similar, an attempt has been made in this article to understand the concept of Lower urinary tract infection in Ayurveda with comparison to Modern concept.

Key words: Mutrakruchha, Ayurvedic Literature, Lower Urinary Tract Infection, Chikista

INTRODUCTION

"Dosha Dhatu Mala Mulam Hi Shareeram" Dosha, Dhatu and Mala are basic substratum of the Shareera. The painful voiding of urine is known as Mutrakrichha. In this disease patient has urge to micturate, but he passes urine with pain Mutra is one among Trimala and it plays a major role in Kledavahana. Mutravega is one among the Adharniya Vegas. Basti which is the Srotomula of the Mutra is among the Trimarma in our classical text the Dysuria is described in the form of 8 types of Mutrakruchha by Acharya Charak and Sushrut.

Address for correspondence:

Dr. Sanjay Babar

HOD & Professor, Dept of Shalya Tantra, Dr.D.Y.Patil College of Ayurved and Research Center, Dr.D.Y Patil Vidhyapeeth, Pimpri, Pune, Maharashtra, India.

E-mail: sanjaybabar14@gmail.com

Submission Date: 13/07/2022 Accepted Date: 17/08/2022

Access this article online Quick Response Code Website: www.jaims.in Published by Maharshi Charaka Ayurveda Organization, Vijayapur,

CC-by-NC-SA

Karnataka (Regd) under the license

Urinary tract infections are the leading cause of gramnegative sepsis in hospitalized patients.

They are important cause of morbidity and might result in renal damage, often in association with vesicoureteric reflux (VUR).

Urinary tract infections are second in frequency after upper respiratory tract infections.

Incidence and degree of morbidity and mortality from infections are greater with those in the urinary tract than with those of the upper respiratory tract. Mutra is an outcome product digestion of food and metabolism in the body, it is passed through urethra.

In both Mutraghata and Mutrakrichha, Krichhrata (Dysuria) and Mutra-Vibhandhta are simultaneously present but in Mutrakrichha there is predominance of Krichhrata (dysuria)

Urinary tract infection refers to both microbial colonization of the urine and tissue invasion of any structure of the urinary tract.

Bacteria are most commonly responsible, although yeast, fungi and viruses may produce urinary infection.

MATERIALS AND METHODS

Basti and *Vankshana* have been considered as the *Moola* of *Mutravaha Strotas* and its *Dushti* leads to excessive urination or oliguria, increased frequency, painful micturition etc.^[1]

Chikitsa Sthana, eight types of *Mutrakrcchra* have been defined along with its aetiopathogenesis and treatment.^[2] Here the term *Mutrakrcchra* has been used instead of *Mutraghata*. Further in *Siddhisthana,* thirteen types of *Bastiroga* have been described under the caption of *Mutradosha* and are different from the disease *Mutrakrcchra*.^[3]

In Sushrut Samhita in Uttartantra, 'Mutrakrcchra Pratishedham Adhyayam' description of eight types of Mutrakrcchra including their Chikitsa is available.^[4] Both the Vagbhattas have classified the disease of Mutravahasrotas according to its Pravritti i.e., Mutrakrcchra comes under Mutra Apravrittijanya Vyadhi while Prameha comes under Mutra Atipravrittjanya Vyadhi.^[5]

In *Kashyap Samhita, Chikitsa Sthana* one chapter named "*Mutrakrcchra Chikitsa*" is separately given.

Bhela Samhita, Sutrasthana one chapter is devoted to *Mutrakrcchra Chikitsa* that it is incomplete.^[6]

Madhava Nidana: *Mutrakrcchra, Mutraghata* and *Ashmari* have been dealt in separate chapters.^[7]

Nidana of Mutrakrcchra

Dosha Prakopa is cause for Vyadhi. Ahara and Vihara play an important role in this. All the factors involved, in provoking the imbalance of *Doshas* come under this heading. The main cause in the vitiation of *Doshas* is *Ahita Sevana* of *Ahara* and *Vihara*.^[8]

Nidanas can be classified as^[9]

- 1) Samanya
- 2) Vishishta

Mutravahasrotodushtikaraka^[10] and Mutrakrcchrakaraka Nidanas^[11] have been mentioned by Acharya Charaka in detail. Acharya Sushruta and Vagbhatta have not mentioned the aetiology. Madhava and Bhavaprakasha have mentioned similar aetiological factors as mentioned by Acharya Charaka.

Acharya Kashyapa has mentioned Katiskandhatidharnat as one of the aetiological factor^[12]

Symptoms wise comparison

Vataj Mutrakruchha

Vataj Mutrakruchha	Uretheral Stricture
There is severe pain in groin region, bladder and urethra.	Slow urine stream (commonest)
Patient passes scanty urine	Sudden urinary retention
	Painful micturation

Pittaj Mutrakruchha

Pittaj Mutrakruchha	Cystitis
The patient suffers from	Painful urination, frequency,
Burning Micturition,	strangury, incomplete emptying with often
Difficulty in passing urine,	retention.
Straining while passing the	Occasionally Haematuria
urine,	Burning urine, discolored foul
Urgency for urination and	smelling urine
blood-tinged urine	Fever, chills, rigors,
Yellowish Discoloration	suprapubic pain tenderness and often loin pain.
	Septicaemia can develop in severe cystitis

Kaphaj Mutrakruchha

Kaphaj Mutrakruchha	Nephritis	
The Patients develops oedema and experiences a sensation of heaviness in the regions of kidney, bladder and penis.	Pain in the pelvis Swelling of the body, commonly in the face, legs and feet	
Patient passes small or large quantity of cold, whitish, sticky and thick urine	Vomiting Cloudy urine	
Patient experiences slight pain and sometimes devlopes goose skin while passing urine	Blood or pus in urine Foamy urine	

Sannipatik Mutrakruchha

Sannipatik Mutrakruchha	Urethritis
Patient passes urine of various colours, frequently and with difficulty and pain. He experiences pain, burning sensation or chilly sensation all over body In addition, he becomes drowsy	Dysuria Burning Micturation Haematuria Increased Frequency Peripheral pain Tenderness over the site Suprapubic Pain and
	Tenderness

Shukraja Mutrakruchha

Shukraja Mutrakruchha	Prostatitis
Testes and Bladder are swollen and the patient experiences pain in the Bladder, Penis, inguinal region,	Pain, frequency Fever with chills and rigors Retention of Urine.
testes. The patient passes urine mixed with semen	Perineal Heaviness
	Pain on Defecation
	Tender prostate per rectal examination

Abhighataj Mutrakruchha

Abhighataj Mutrakruchha	Urethral Injury
Accidental or Surgical injury to the Urinary System gives rise to anuria, oliguria, retention of urine and severe pain	Bloody in external meatus. Failure or Difficulty in passing of urine Extravasation of Urine to Scrotum, perineum, and abdominal wall Shock with Pallor Hypotension

Raktaja Mutrakruchha

Raktaja Mutrakruchha	
Accidental or instrumental injury or ematiation of various tissue with bleeding disorder gives rise to severe pain and blood strained urine, which is passed frequently in small quantities.	

Formation of blood clots in	
urinary passages leads to	
distension and heaviness in the	
bladder which is relieved after	
passage of blood clots.	

September 2022

REVIEW ARTICLE

Ashmari Janya Mutrakruchha

Ashmari Janya Mutrakruchha	Renal Calculi	
During urination pain in navi (umbilicus), Basti, Seevani, Medhra	Pain (discomfort during jolting, jumping)	
Mutra-dhar sanga	Pyrexia	
Haematuria	Haematuria	
Scattering of urinary Cyst	Pyuria	
Sandy and Turbid Urination	Hydronephrosis	
Blood in external meatus		
Failure of difficulty in passing Urine.		
Extravassation of urine to scrotum, perineum and abdominal wall		

Sarkaraja Mutrkruchha

Sarkaraja Mutrkruchha		
Ashmari due to Vata is crushed and becomes sand, when it comes out with urine it is called as Sarkara. Hrit Peeda Kampa (Tremor)	Urinary Calculi obstruct the urinary passage and lead to maintain in the kidneys, ureter, bladder, penis and perineal raphe The patient massages the penis in an attempt	
Pain in Pelvis Agnidourbalya	to relieve the pain.	
Murcha	The stream of urine is sometimes bifurcated.	
Severe Dysuria	He passes stools frequently and trembles	
Haematuria	while passing urine and stool.	
	Injury by stones leads to blood-stained urine	

Pathophysiology of Infection by Uropathogens in Lower UTI

Uropathogenic E. Coli organisms attach to receptors on superficial bladder cells with P fimbriae or type 1 pilli. Once contact is established, the bacteria are internalized into the cells, where they can replicate to

high levels. However, attachment or invasion can result in the activation of apoptotic pathways, within the cells, leading to the event of exfoliation and clearance of infected host cells. Interactions between E. Coli and the cells can also result in the induction of inflammatory cytokines, leading to influx of polymorphonuclear leukocytes into the bladder epithelium. E.Coli can escape from lining cells, thereby avoiding clearance by exfoliation and infect surrounding and underlying epithelial cells. Within the bladder epithelium, E.Coli can escape immediate surveillance and persist at subclinical level.

Line of management of Ashmari^[14]

The management of Ashmari has been given due importance by all the three Samhita's viz., Charaka Sushrutha & Vagbhata. In Mutrakrcchra, there is Apravritti of Mutra and Pratiloma of Apanavayu. Hence the Chikitsa should be such that it is Mutravirechaniya and pacifies the doshas.

Sushrutha has further given elaborate description of management of *Ashmari* in a separate chapter. The management of *Ashmari* has been described according to its various stages.

- 1) Nidana Parivarjana
- 2) Snehana
- 3) Swedana
- 4) Basti
- 5) Physical exercise
- 6) Horse riding after taking Madya

Nidan Parivajana: Patient should avoid *Kaphavardaka Ahar* & *Vihar*. All etiological factors, which are described.

Snehana & *Swedana*: These measures promote general well-being by eliminating the accumulated *Doshas* & purification of channels.

Vasti: *Uttarabasti* should be given to relieve obstruction to keep equilibrium of *Basti Doshas*. *Dosa's* cannot accumulate due to lubrication.

Physical exercise: Charaka & Vagbhata advised horse riding or Journey by fast moving vehicles after taking old wine.

These measures may have been successful in small stone. It is conceivable that violent movement & along with diversified would dislodge the calculus & being small would be passed per urethra.

Samshamana line of management^[15]

Treatment of specific variety of *Ashmari* is going on in the form of *Ghee, Kshara, Yavagoo, Kashaya, Milk* etc. these preparations are made by various drugs according to their specific against *Vata, Pitta, Kapha*.

Text	Vataja	Pittaja	Kaphaja	General treatment
Sushruth a	Pashana beda, Varuna Kulatta Sathavari etc.	Kushadi Gritha & Decoctio n	Varuna Gana Guggulu	Gokshuradi Churna Veeratharva di Gana Decoction Apamarga, Yavakshara, Punarnava
Astanga Sangraha	-	-	-	Veeratharva di Gana
Bhavapra ksha	Eladi Decoctio n Varuna Veeratha rvadi Ghritha	Kushadi Ghritha & Veeratha rvadi Dococtio n	Varunadi Ghritha	Yavakshara, Trinapancha moola Varuna Taila, Rushadi Taila Gokshuru Ghritha
Astanga Hridaya	-	-	-	Veeretharva di Gana
Charaka	-	-		Pashanabed a Churna Punarnava, Gokshura Trunapanch amoola
Sharanga dhar	-	-	-	Veeratarvadi Gana

Sanjay Babar et al. Mutrakruchha according to Ayurvedic Literature

ISSN: 2456-3110

Harita	-	-	-	Pasanabedh a Shigru Kashaya
				Kushadi Kashaya
				Shunti Etc.

Surgical management^[16]

In spite of all the medical treatment if patient do not get relieved then surgery is indicated. Besides this some other indications are as follows.

Chronicity of the disease

Stone is bigger in size

In children

Acute retention of urine caused by the stone impacting the urethra.

While describing the indications of surgical treatment of *Ashmari, Sushrutha* has mentioned that surgical removal may cause serious consequences & even death of the patient. So before performing operation surgeons should explain the situation about the graveness of the disease & permission should be taken from authority. He has further explained that though operative interference may lead to serious consequences even death, but if the patient is not operated will ultimately die; there are chances of survival of patient after operation so patient should be operated.

After taking consent *Sushrutha* described operative procedure, which can be divided in to three steps.

Purva Karma (Preoperative procedure)

Pradhana Karma (operative procedure)

Paschat Karma (post operative procedure)

Purva Karma^[17]

First the patient is given *Sneha Dravya* later on his system is cleaned by *Vamana & Virechana* medicated oils are applied over the body & moderate *Swedana* is indicated. Then he is kept on light diet. After the psychological preparation of patient by consoling words & prayers to God etc. then patient was shifted to Operation Theater where every needful thing are ready.

Position of the patient in the operation room - the patient is placed in the lithotomy position with his arms & legs bent & tied & held in position by attendants over whose lap the patient lies. The buttocks are raised by placing a cotton pillow below the pelvic girdle. For proper illumination patient should be positioned towards sun.

Required medicine & instruments should be collected & placed in operation theatre & utilized at the time of requirement during *Pradhana Karma*.

Pradhana Karma

Mobilization of stone - for mobilization of stone *Sneha Dravya* should be applied over abdomen & pelvis & efforts should be made to mobilize the stone by applying pressure from left side of *Nabhi* to downward with the help of fist.

Fixation of stone - should be fixed near to *Sevani* with help of two fingers which is put inside the rectum preferably by the left hand.

Incision - Incision should be made on left side 1 *Yava* away from *Sevani* the length of the incision should be *Ashmari Pramana*. Incision should be preferably made on left side but for technical convenience incision should be on right side.

Removal of stone - All efforts should be made to remove the stone for which gentle pressure should be applied from rectal side by finger & stone should be held by *Vakra Yantra*.

Precaution: During the fixation of stone patient may go in a stage of shock he may be fixed, he may look like dead person, if this happens then operation should not be performed.

Paschat Karma

After removing the stone, patient should lie down in a boat of warm water by which blood will not get accumulated in *Vasti*. The bladder must be irrigated with by astringent decoction i.e., *Pancha Ksheeri Kashayam*. Then he must be removed from the boat & ghee & honey is applied over wound. Rice & ghee is

REVIEW ARTICLE September 2022

given for 3 days orally. Then medicated *Yavagu* with ghee is given to the patient for another 3days. After this for 10 days he must take *Guda*, rice, milk & for another 10 days slight acidic juice like *Dadima* & juice of meat is given to him. After this light *Swedan* & *Snehana* is given to the patient & wound should be irrigated by *Panchakshiri Kashyam*. A paste of *Lodhra*, *Yastimadhu* is applied over the wound. If there is granules of a *Sharkara* in urethra. It should be removed by giving incision to urethra.

After wound-healing patient should avoid sexual intercourse, riding horse & other heavy exercise at least for one year.

Complication

During operation if the patient shows signs of shock the operation is to be discontinued.

In female, uterus is situated behind the urinary bladder. Surgeon should avoid the injury to *Garbhashaya* otherwise urinary fistula will occur so incision should be given '*Utsangavat*'.

Sushrutha mentioned a very important precaution that bladder must be injured only once, counter injury should be avoided otherwise healing will not takes place.

Exhaustive exercise & sexual indulgence should be avoided for one year after operation, diet should be light foods. The following things can happen.

Death: By cutting of Mutravaha Srotas, Vasti & Guda

Pain: If Yoni & Sevani is cut

Impotency: If Sukravaha Srotas is cut

Extravasation of urine: If Mutrapraseka Is cut

Prognosis: *Asmari* is difficult to cure in a patient who regularly passes gravels in urine.

Pathya Ahara

Purana Rakta Shali, Kshara, Yava, Cow's Milk, Curd and Buttermilk, Jangala Mamsa, Mudga, Sarakara, Kushmanda Phala, Patola, Ardraka (Wild Variety), Gokshura, Kumari, Supari, Kharjura, Narikela, Taladruma, Talasthimajja, Trapusa, Sukshma Ela, Pure River Water.

Pathya Vihara

Abhyanga, Svedana, Avagahana.

Apathya Ahara

Madyapana, Tambula, Matsya, Lavana, Ardraka, Taila Bhrishta Padartha, Pinyaka, Hinga, Tila, Sarshapa, Masha, Karirphala, Vishamashana, Virudhashana, Vidahi, Atitikshna, Ruksha and Amla Rasa.

Apathya Vihara

Ativyayama, Atimaithuna, Riding on elephant and horse, Striprasanga.

DISCUSSION

Ashmari has been classified according to physical characters and *Doshik* symptomatology.

According to *Sushrutha Kapha* is responsible for manifestation of *Ashmari* but other *Doshas* like *Vata* and *Pitta* are also essential for further growth of *Ashmari*.

Samprapti of Ashmari which is mentioned for bladder calculi, this Samprapti we can apply in case of Mootrashmari even (renal calculus).

Ashmari being one among Astamahagada so it is Kastasadya or Asadya according to Sushrutha.

Etiopathogensis and symptomatology are described according to *Doshas*.

According to *Susrutha* urinary stone is formed in a similar way as muddy precipitation takes place even when clear water is kept in a new pitcher. Another example quoted is that just as air and fire of the lightening in the sky along with water forms hail stone similarly *Pitta* lodged in the bladder in combination with Vayu along with consolidation of *Kapha to* form the calculi.

According to modern intrinsic factors like Heredity, age and sex and extrinsic factors like geography, environment, less water intake, Diet, Occupation, etc. are predisposing factors of Calculi. Apart from these anatomical and physiological variations like impaired drainage of urine, congenital anomalies, biochemical

REVIEW ARTICLE September 2022

factors like hypercalcioria, renal tubular acidosis, etc. are responsible for formation of *Ashmari*.

CONCLUSION

Medicaments are those which are employed by physicians, with a view to bringing about the equilibrium of Dhatu. Mutrakrcchra is described in all the Ayurvedic classics. But, is not mentioned under Garbhini and Sutika Vyadhis. The *Linga* of Mutrakrcchra are also present in Garbhini and Sutika. The properties Rasayana, Balya, Brumhana, Snehana, Jivaniya and Madhura Rasa And Vipaka; Sheeta Virya; Guru, Snigdha Guna of all the drugs promote Prakrita Kapha which is also considered as Bala, thus increases its Samana Guna Oja and thus Vyadhikshmatva of Garbhini and Sutika. Urinary tract infection refers to both microbial colonization of the urine and tissue invasion of any structure of the urinary tract. Bacteria are most commonly responsible, although yeast, fungi and viruses may produce urinary infection.

REFERENCES

- 1. Charaka Samhita, Vol. I, II, Vidyotini Hindi Commentary, Choukhamba Bharti Academy, Varanasi., Vimansthana 5/8
- 2. Charaka Samhita, Vol. I, II, Vidyotini Hindi Commentary, Choukhamba Bharti Academy, Varanasi., Cikistanastana 26.
- 3. Charaka Samhita, Vol. I, II, Vidyotini Hindi Commentary, Choukhamba Bharti Academy, Varanasi., Siddhisthana 9/25.
- Sushruta Samhita: Vol I & II, Hindi Commentary of Ayurveda Tatva Sandipika by Kaviraja Ambikadutta Shastri, Chaukhamba Sanskrit Sansthana, Varanasi Uttartantra/59.
- Ashtanga Hrdya With Commentaries 'Sarvangasundara' of Arundatta and Ayurveda Rasayana of Hemadri, Chaukhamba Surbharti Prakashan, Varanasi, Nidansthana 9/40.
- 6. Bhela Samhita, Chowkhamba Surbharti Sanskrit Sansthana, Hindi Commentary Varanasi, Sutrastana/6.

- Madhava Nidana With Madhukosha Sanskrit Commentary by Shri Vijay Rakshita, Chaukhamba Sanskrit Sansthana, Varanasi, Chapter 30/31-32.
- Ashtanga Hrdya With Commentaries 'Sarvangasundara' Of Arundatta and Ayurveda Rasayana Of Hemadri, Chaukhamba Surbharti Prakashan, Varanasi, Nidansthana /1
- Kashyapa Samhita Or Vriddhajivakiya Tantra, Edited by Prof.
 P.V. Tewari, Chaukhamba Visvabharti, Varanasi Chi Mutrakrcchrachikitsitadhyaya /1
- 10. Charaka Samhita, Vol. I, II, Vidyotini Hindi Commentary, Choukhamba Bharti Academy, Varanasi. Vimansthana 5/20.
- Charaka Samhita, Vol. I, II, Vidyotini Hindi Commentary, Choukhamba Bharti Academy, Varanasi. Chikistastana 26/.32.
- Kashyapa Samhita Or Vriddhajivakiya Tantra, Edited by Prof.
 P.V. Tewari, Chaukhamba Visvabharti, Varanasi Chi Mutrakrcchrachikitsitadhyaya /1
- Charaka Samhita, Vol. I, II, Vidyotini Hindi Commentary, Choukhamba Bharti Academy, Varanasi. Chikistastana 26/58.
- Sushruta Samhita: Vol I & II, Hindi Commentary of Ayurveda Tatva Sandipika by Kaviraja Ambikadutta Shastri, Chaukhamba Sanskrit Sansthana, Varanasi Chikistastana Adhyaya 7/3-4.
- Sushruta Samhita: Vol I & II, Hindi Commentary of Ayurveda Tatva Sandipika by Kaviraja Ambikadutta Shastri, Chaukhamba Sanskrit Sansthana, Varanasi Chikistastana Adhyaya7/8
- Sushruta Samhita: Vol I & II, Hindi Commentary of Ayurveda Tatva Sandipika by Kaviraja Ambikadutta Shastri, Chaukhamba Sanskrit Sansthana, Varanasi Chikistastana Adhyaya 7/32-36.
- Sushruta Samhita: Vol I & II, Hindi Commentary Of Ayurveda Tatva Sandipika By Kaviraja Ambikadutta Shastri, Chaukhamba Sanskrit Sansthana, Varanasi Chikistastana Adhyaya 7/22,30

How to cite this article: Sanjay Babar, Asit Kumar, Chaturbhuj Bhuyan. Mutrakruchha according to Ayurvedic Literature. J Ayurveda Integr Med Sci 2022;8:39-45.

Source of Support: Nil, Conflict of Interest: None declared.

Copyright © 2022 The Author(s); Published by Maharshi Charaka Ayurveda Organization, Vijayapur (Regd). This is an open-access article distributed under the terms of the Creative Commons Attribution License (https://creativecommons.org/licenses/by-nc-sa/4.0), which permits unrestricted use, distribution, and perform the work and make derivative works based on it only for non-commercial purposes, provided the original work is properly cited.