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Role of avurveda in *mutrashmari* (urolithiasis) a review

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Abstract:

Today's lifestyle, Global warming, faulty Dietary habits, contributes more in formation of urinary calculus. In Ayurvedic texts urinary calculus has been described under the chapter of Sushrutacharya Mutrashmari. include Ashmari in Astamahagada.

According to modern science surgery is, the only treatment but recurrence common. now a day many people di because of kidney diseases because treatment is very costly but some herbs like Punarnava (Boerhaavia diffusa)Kulattha (Dolicus biflorus), Gokshura (Tribulus terristris), Apamarga (Achayaranths aspera), Pashanbheda (saxifera ligualta) and Varuna (Crataeva nurvela), Shatavari (asparagus

racemosus), Ela(Elettaria

cardamomum), Ushir(vetiveria zizanioidis) praval and yava

,*Shilsjatu*(liquidamber orien tallis). (Hordeum vulgare) ,Takra, Coconut water(cocos nucifera) are useful in early symptom like Mutrakrushra, pain ,UTI *mutraghat Mutrashmari* can be prevented by using Some combination like Yavaksharadi Kulathyadi yoga, yoga, Varunmulatwak kashay, Narikelkusuma Varunadikwath, yoga,

Chandraprabhavati Gokshuradiguggul.

,NagradiVati,

All drug used in this combination are *Bhedak*(Lithotryptic),*Mutral*(Diuretic), Antibacterial, Shothahar(Antiinflammatory)which are beneficial in the management of Urolithiasis. The study has been conducted to explore Avurvedic drugs to prevent Mutrashmari

Keywords: Mutrashamari, Urolithiasis, Lithotryptic, Diuretic.

Introduction:

According to epidemiological survey the prevalence of Urolithiasis in developed country is 4% to20% [1].According to National Health &Nutrition examination Survey (2012), the incidence of urinary tract stones is 10.6% in men and 7.1% in women in United States[2]

(Urolithiasis)or Mutrashmari urinary calculus below 5 mm size are flush out automatically with urine more than 5mm size causes pain ,dysuria, haematuria.[3]

In Avurveda, the causes of renal disorders are due to the vitiation of Mutravaha srotas (channels carrying urine) Acharya Explained Charaka the common etiological factors (hetu) for mutravahasrotodushti. Excessive viz. exercise, intake of sharp medicine and dry food, intake and alcohol in excess, intake of the meat of animals inhabiting marshy land

and fish in excess, intake of food before the previous meal is digested, indigestion, injury to organs of *mutravahasrotasa(kshata)*[4] indulging in sex during the urge for micturition (streesevana), suppress the urge for micturition (*mutranigraha*)[5] due to this the pain in of hetusevana areas umbillcus, bladder, perineal, penis &other areas nearby during micturition, interruption of stream of urine, urine mixed with blood ,urine scattering ,resembling like gomedak,turbid containing sand ,there is pain during running ,jumping ,swimming,riding ,exposure to sunlight, long walk .[6]

Pathophysiology:

Sushruta explains long stasis of urine in bladder as precursor of urinary calculi kapha get aggravated combines with urine reaches the urinary bladder &stay there, produces calculi [7]

To explain it he gives an example of sedimentation of mud at the bottom of an earthen pot, after prolonged storage of even clear water.

According to *Charaka*, by the action *Vata*, mutra get dried with Shukra or Pitta or Kapha, the Ashmari is formed in the Basti (urinary bladder), as the bile hardens in the Gallbladder of the cow to form the 'Gorochana'.[8] According to various ayurvedic text Mutrshmari is of vataj, Pittaja, kaphaj and Sukraj types. [9,10] The clinical symptoms presented by a person who is suffering from Vataja Ashmari will forms lumps, have severe pain during micturition ,pain at the umbilical region person grinds his teeth presses the umbilicus, squeezes the penis and passes *Vata*, *Mutra* and *Purisha* with high difficulty.

The *Vataja Ashmari* is blue in *Color*, hard, rough with uneven surface and thorny like *Kadamba* flowers.

The person suffering from *Pittaja Ashmari* will present with burning sensation, difficulty of maturation. the *Ashmari* reddish and yellowish in color and resemble the seed of bhallataka or colour like honey.

The person suffering from *Shleshmaja Ashmari* will feel the bladder as though being torn,puncture &pricked heavy&cold , *Ashmari* is white in color, slimy in texture, big like hen's

egg or having color of Madhuka flower.

Sukrasmari is develop due to interruption of coitus or too much copulation *sukra* getting dislodged from it seat &obstructed from going out, *vata* get aggravated withholds it between the penis &testicles exdried it up, this stone blocks the urinary passage gives rise to difficult urination, pain &swelling of the bladder &testicles when squeezed by hand ,it break into small pieces [11]

Sushrutacharya has mentioned Aushadhi chikitsa, Basti

karma, Kshar karma and *Shastra karma* as treatments of choice for Ashmari On basis of signs and symptoms of *vata, pitta, kapha*, Apart from medicinal decoctions, *kalkas*,

ghritas, various kinds of foods, preparations of milk, alkalis, honey, asavas, fomentation, upanaha,panchakarma such as vamana, virechana, basti (medicated enema) such as niruha, anuvasana, and uttara-vasti are employed according to their indications.

According to modern science kidney stones are made up of calcium oxalate and calcium phosphate [12] *Vataja* Ashmarican be correlated with calcium oxalate calculus ,*Pittaj* with Uric acid ,Urate, Cystine calculus ,*kaphaj* with Phosphatic calculus[13]. **Aim:**

To study the role of Ayurvedic drugs in *Mutrashmari*

Methods and Materials:

Classical text of Ayurveda, Research papers, Internet, PubMed

Common Herbs mention by different Samhita

Samhita	Vataj	Pittaj	Kaphaj
Charak	Punarnava, Arandamul	Gokshur ,shatavari kush,kash	Trikatu
	a,	vidarikanda,Ikha,kasheru	,Gokshur,Ela,prav
	Shatavari,Dashmula,P		albhasma,
	ashanbheda,kulattha,y		
	ava		
Shushrut	Pashanbheda	kush,kash,asmabheda,Punarnava,Sh	Trikatu
	shatavari,kulattha,ush	ilajatu,Yastimadhu	,Ela,Ushkadi Gana
	er,yava		
Astang	Aranda	Asmabheda,Punarnava,Shilajatu,Ya	Gokshur,Ela,Kada
san.	mula,Bala,Punarnava,	stimadhu,Vidarikanda,Ikha,Drakshr	li,Yava,Takra,Gud
	Dashmula,Shatavari,P	asa, Truspatichamula, kasheruka	uchi,kutaj,uhkadi
	ashanbheda,kulatthaY		gana
	ava	AVIE NS	
Yogarat	Guduchi,Suntha	Vidarikanda, Ikha, Drakshrasa,	Yavashar, Ela,
nakar	,Amalaki,Ashvagandh	kush,kash, Derbha,	Kadali, praval
	a,Gokshur,pashanbhe	Gokshur, shatavari, nariken Water,	bhasma,Takra,
	da,	Dhanyaka,	
		pashanbeda,Yshtimadhu,	
Bhavpra	Laghupanchmula,gok	Vidarikanda, Ikha, Drakshrasa,	Yava, Ela,
kasha	shur,shatavari,aranda,	kush,kash, Derbha, Gokshur,	kadali, praval
	punarnava,kullatha,	Satavari, Yashitimadu, Nariken	Bhasma,
	pashanbedha, yava	water pashanbheda, shilajit	Shatavari, Trikatu.
			Gokshur,Takra,gu
			ggul. kusta, musta,
			devdaru

Discussion

Following Common drugs are available for the treatment of Mutrakrusra &ashmari *Punarnava*(*Boerhaavia diffusa*) it is having mutravirechan & Shothahar property *Mutral* (Diuretic) [14]

Pashanbheda (Saxifraga ligulata) itsmula is snigdha,tikshna sheet Viryatmak(cold potency) described as

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Ashmaribhedak(Lithotryptic) &*Mutral*(Diuretic) useful in Mutrakrushra, Mutraghat, and diseases of bladder drug.[15]

*Gokshur:(TribulusTerrestris)*is described as *Bastishodhak & mutral* useful in *Ashmari, Mutrakrushra,*&diseases of kidney[16]

Kulatha: (Dolichos biflorus) because of its *ushna Bhedak* (Lithotryptic) &*Mutral* (Diuretic) property, useful in diseases of bladder [17]

Vidarikanda:(PuerariaTuberosa)due to madhur ras&seeta virya it is Mutral(Diuretic)[18]

Ela:(Elettaria cardamomum) due to its madur rasa&seeta virya is Mutral(Diuretic)[19]

Yava:(Hordeum vulgare)due to its madur ras it is Mutral(Diuretic)[20]

Yavakshar: (*Potasii carbonas*) *Mutral* (Diuretic) useful in calculus form by uric acid [21]

Aranda (ricinus communis): due to its *vatashamak ,shothahar* property it is *vedanashamak& Mutral*(Diuretic) leaves relieves pain in bladder[22]

Daruahridra:(**Berberis species**) due to bastishodhak shothhar property decreases pain &Mutral(Diuretic),root is bactericidal [23]

Nariken (cocos nucifera): due to its madur rasa,sheeta virya mutrajanan,mutraverechan property it is bastishodhak& Mutral(Diuretic)mula is Mutral[24]

Jeshthamadha: (glycyrrhiza glabra)-due to its sheet virya,mutrajanan, shothahar

property it is *Mutral*(Diuretic)*also decreases pain* [25]

Ikha:(saccharum officina)due to sheetvirya it is Mutral(Diuretic)in mutrajana dravya it is best[26]

Kusha:Eragrostis cynosuroides)due to sheet virya &mutravirechaniya property it is Mutral used in diseases of bladder[27]

*Kasa:(saccharum spontaneum)*due to its *sheet* property it is *Mutral* [28]

Shatavari(asparagus racemosus)due to sheet property it is mutral&use in *Mutrakrichha*(dysurea)[29]

Kasheru-(scirpus grossus)it is madhur rasatmak& sheet viryatmak act as mutral[30]

Trikatu-due to *tikshna,ushna* ,*madhur vipak* property,it is *shothahar* ,*vedanahar mutral*,[31]

Ushir (vetiveria zizanioidis)-due to its sheet virya it is work as mutrajanan[32]

Bala-(sida cardifolia)due to its madhur, sheet property it is act as mutrajajan[33]

Draksharasa-(vitis venifera) due to its madhur sheet property it is mutral[34]

Guggul-(commiphera mukul)-due to its ushna virya ,tikshna property it is *mutral* and break the ashmari. [35]

Musta(cyperus rotundus)due to its sheet property it is mutral[36]

Varun(crataeva nurvala bach-ham)due to its *prabhav* it is *ashmari bhedak,mutral*, and kills bacteria,decrase pain[37]

Ushak (dorema ammoniacum don)-due to its ushna virya it work as mutrajanan [38]

Devdaru-(cedrus deodara roxb loud)it is mutrajanan[39]

Kusta (saussurea lappa)- it is disinfectant, antiseptic, *mutral*[40]

Shilajit (liquidamber orien tallis)having *katu tikta ras,katu vipak ushna virya* it is *mutal* [41]

Praval-due to its madhur ras, sheeta virya sarak property it is mutral[42]

Takra-it helps in *Srotorodha* help in *mutra krishara*&removes the pain in bladder, help to remove *ashmari* [43]

Amalaki(emblica officinalis)decrease the inflammation of urinary badder[44]

Guduchi(tinospora cardifolia)due to madur vipak ,sheet virya it is work as mutrajanan & so useful in mutrakrushra[45]

Conclusion:

Maximum herbs are *Bhedak* (Lithotryptic), *Mutral*(Diuretic), Antibacterial, *Shothahar*(Anti-inflammatory) and useful in diseases of bladder and kidney.

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