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**Original Research Paper** 

Ayurveda



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ABSTRACT sushruta has explained 37 Gana and each of them have multiple indications. The Nomenclatune of Gana is begins with Veertarvadi Gana . In "veertarvadi gana" – veertarva is the first drug mentioned in this Gana. veertarvadi gana is described in(su.s.su. 38/4). This gana is indicated in mutrakriccha, mutrashmari, mutragha. Mutrashmari is one of the prime disese affecting mutravaha srotas involving the basti marma. The percentage of people suffering from mutrashmari is increasing in the present era due to changes in lifestyle e.g. - stress, strain , enviormental pollution etc. Urolithiasis is the condition where urinary stones are formed or located anywhere in the urinary system. Urolithiasis has affected about 12% of the world's population at some stage in their lifetime. It occure more frequently in men than in woman in a ratio of 3:1 between the age of 20-49years in india , 12% of population is expected to have urinary stones, out of which 50% may end up with the loss of kidney function or renal damage. The action of veertarvadi gana is due to its mutrada (diuretics ), vikasi (antispasmodic), Ashmarighna (lithotripsy ), shothaghna(anti-inflamatory) properties which are helpful for painless is turther complications. The main aim of this study is to understand the importance of the veertarvadi gana and its shaman chikitsa in mutrashmari.

KEYWORDS : Mutrashmari, Urolithiasis, Veertarvadi Gana

# INTRODUCTION

The disease "Mutrashmari" is one of the commonest diseases of mutravaha srotas. Acharya Shusrut has mentioned Mutrashmari as one among the ASHTA MAHAGADHA. He also termed it as 'YAMA' because it gives intolerable pain and it is kapha pradhan tridoshaja vyadhi. Acharya Charaka mentioned Ashmari as one of basti marma srotas vyadhi. In modern science, it is correlated with urolithiasis. The classification of Ashmari is based on the predominance of dosha. It is classified into 4 types vatashmari, pittashmari, shleshmashmari, and shukrashmari. The common symptoms of mutrashmari are intermittent dull or colicky pain, burning micturition, foul smell of urine, blood in urine and vomiting. The best and latest treatment for this disease is invasive surgery which requires a hospital stay, pre and post-operative complications. In the context of Ayurvedic classical drugs " veertarvadi gana " dravyas like (Veertaru, Sahchar, Kush,

Kash, Pashanbhed, Bandak, Gundra, Arni, Murva, Vasuka, Vasika, Bhalluk, Shyonak, Neel kamal, Brahmi, Gokshura.) Su.S.Su 38/4 is described as an effective drug in the management of urolithiasis.

Slock-

वीरतस्सहचरद्वयदर्भवृक्षादनीगुन्द्रानलकुशकाशाश्मभेदकाग्निमन्थमोरटवसुकवसिरभलुक-कुरेंटकेन्दीवरकपोतवङ्काः श्वदंष्टा चेति । । (स्0स्1 37/10)

So a study has performed an account of the above statement. The result was assessed by using a series of parameters and it was found that Veertarvadi Gana is highly significant in reliving most of the signs and symptoms regarding Urolithiasis .Also, the drug is found effective in the removal of small (less than 5mm) stones and reduce the size of big (10-12) mm stones present in the ureter, bladder and kidney.

#### Literatuve Review-

Table No 1: Important Medicinal Plants Of Veertarvadi Gana Explained In Ayurvedic Classics Are As Follows :-

0	D 11	D			a) , ) a ,	-
S.no.	Drug Name	Botanical Name	Family	Morphology	Chemical Composition	Images
1	Veertaru	Dichrostachys cineria	Leguminacae	Tree	Alanine,Trierpenoid, Amyrine,Epicatechin Pyrazines,leucine	1 de
2	Sahcharadvya	Peeta-Berleria prionitis Neel-Berleria strigose willd,	Acanthace	Shrub	Glycosides,Flavonoids, Melilotic acid,Steroids Apigenin,Tannins	
3	Darbha	Imparata cylindrica	Graminae	Herb	5-Hydroxyflavone, Jaceidin,Daucosterol Caffeic acid,Jaceidin	
4	Vrukshadani	Loranthus longiflorus desr.	Loranthaceae	Parasite plant	Quercetin,Flavonoid Kempferol,Rutin-11	
5	Gundra	Typha elephantina roxb.	Typhaceae	Herb	Carbohydrate,Tannins Flavonoids,Alkaloids	
6	Nala	Arundo donex	Gramineae	Herb	Alpha-amyrine acetate Dehydro-bufotanine Fridelin,Arundamine	
7	Kush	Desmotachya bipinata	Gramineae	Herb	Isoarborninale,ferinale 5-Hydroxy methyl 2- Furfural,cylindrine	

			VO	LUME -	12, IS	SSUE - 12, DE	ECEMBER - 2023 • 1	PRINT ISSN No. 2277 - 816	0 • DOI : 10.36106/gjra
8	Kasha	Sacchram spontaneum	Gramine	mineae		b	Glucose,Galactose Xylose,Rhamnose		Marrie -
9	Ashmabheda	Bergenia ligula	ta Saxifrag	aceae	Pere herl		Terpenoids,saponins Mucilase,catechin leucocynanidin		
10	Agnimanth	Premna mucronate roxk		penaceae		ge shrub	Permnine,Ganiarine Cryophylline,Betuline		
11	Morat	Marsedenia lenacissima	Ascapiad e	-		ennial ıber	3-O-acetyl-olenane-18-ene-3B- ol,condutriol Daucosterol		<u>a</u>
12	Vashuka	Osmanthus fragrans		Sapotaceae		e	Ursolaldehyde,5-hydro -xymethyle,lupeol,chlo -rogenic acid,		
13	Vashir	Achyranths aspera	Amarant e	aranthacea		ennial o	Triterpenoid saponines Oleanolic acid, Ecdysterone,aglycone		
14	Bhalluka	Oroxynum indicum	Bignonia	gnoniaceae		9	Biochanin-A,Ellagic acid,oroxylin- A,sisto- Sterol,oxoxidine		
15	kurant	Argentea celas	ia Amaranti e	Amaranthacea e		ıb	2-descarboxy betadin,amaranthin,betalimic acid,salanine a,b		TAX
16	Kendivar	Celasia cristato	r Amarant e	Amaranthacea e		b	Saponine,celosin a,b,sterals,semenosid,glycoprotein 4-hydroxy phenoethyl ,alcohal		
17	Kapotvanka	Dalbergia lanceolaria	Scrophul eae	Scrophulariac eae		b	Triterpenoid saponine, Bacosides,apigenine D-mannitol,bramine		
18	Swadanshtra	Tribulus terresteris	Zygophy	ophyllacea		b	Steroids,saponines,Git- Onine,spirastanol lignanamides		
Tab	e No-2 Shows	The Medicinal Pro	perties Of I	hese H	Plant	ts Accordin	ng To Bhavprak	ash Nighantu.	
S. No.	Medicinal Plant	Rasam	Gunam	Veery	γam	Vipakam	Pryojyanga	Dshaghnata	Karma
1	Veertaru	Kashaya	Laghu ,Ruksha	Shee	tα	Katu	Moola	Kaphvatashamaka	Ashmarinashan, mutral,vednasth apana
2	Sahchar dvya (shweta , neel)	Tikta,madhura	Laghu	Ushn	a	Katu	Panchang	Kaphavataghna	Mutral,Mutrakri cchahar
3			Laghu Snigdha	Shee	tα	Madhura	Moola	Tridoshaghna	Dahaprashman, Ashmarinasan, Mutral
4	Vll	Karlan Tilda	Tl	C1		V		TT 1 D. 1 1	Martine and Mar

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Vrukshadani

Gundra

Nala

Kush

Kash

Ashmbheda

Agnimantha

Morat

Vashir

Bhalluka

Vashuka

Kashya, Tikta

madhura

Madhura

Madhura ,

Madhura,

kashaya

Kashaya, Tikta

Madhura, Tikta

Kashaya, Tikta

Madhura, Tikta,

Kashaya, Tikta ,

Katu ,Tikta,

kashya

Kashya

Tikta ,katu

madhura

Katu

Laghu,

Ruksha

Ruksha

,Snigdha

Laghu,

Laghu,

snigdha

Laghu,

Snigdha,

Tikshna

Laghu,

Ruksha

Ruksha

Laghu , Rukshya

Laghu

Guru,

Guru

Snigdha

Guru

Sheeta

Sheeta

Sheeta

Sheeta

Sheeta

Sheeta

Ushna

Ushna

Sheeta

Ushna

sheeta

Katu

Madhura

Madhura

Madhura

Madhura

Katu

Katu

Katu

Katu

Katu

kαtu

Panchang

Moola

Moola

Moola

Moola

Moola ,Patra

Moola, Patra

Twak, pushpa

Moola

phala

panchang

KaphaPittashamak

Raktapittashamaka

Vatapittahara

Tridoshaghna

Tridoshagna

Kaphavataghna

Pittakaphashamaka

Tridoshagna

Vatapittashamaks

Mutrajanam,Mu

trakricchahar,As hmarinasak

Dahaprashmna

Bastisothhara,

Bastishulnasak,

Mutravirechaniy

Ashmaribhedak

Ashmaribhedak,

Vednasthapaka,

Sothahara

Vednahara,

Dahashamak

Ashmarighna,

Bastisothhara,M

m, Mutral

Mutral, Dahashamak

Mutral

Mutral

Mutral Bastisothhara,

Mutral

utral

α,

Moola, tandul Kaphavatahara

Moola ,tulaka Vatakaphahara

VOLU	VOLUME - 12, ISSUE - 12, DECEMBER - 2023 • PRINT ISSN No. 2277 - 8160 • DOI : 10.36106/gjra							
15	Kuranta	Tikta, Madhura	Laghu	Ushna	Katu	Panchang	Kaphavatashamak	Mutrakricchahar
			_			(Patra)	-	,Mutral
16	Kendivar	Tikta Madhura	Laghu	Sheeta	Madhura	Panchang	Kaphapittashamaka	Mutrakricchahar
			,Snigha,			(Patra,beej,		,Mutravirecchan
			Picchil			mool)		iya
17	Kapotvanka	Tikta Kashaya,	Laghu sara	Sheeta	Madhura	Panchang	ValaPittashamak	Mutral
		Madhura						
18	Shwadanstra	Madhura	Laghu,	Sheeta	Madhura	Phal ,Mool	Vatapittashamaka	Ashmarinasan,
			Singha					Mutral

## Mode Of Action Of Veertarvadi Gana

The highly promising herbs which are acting synergistically have been found to provide pronounced nephroprotective and lithotripsic activities through multiple mechanisms against various factors deleterious for kidney viz.pollutents,toxic metals, potentially nephroprotoxic drug molecules or due to hypertension, renal stone and urinary infection.these herbs are also studied under modern parameters for the action on urinary system .Way of action of Veertarvadi gana is providing a new hope for chronic kidey disease patients. It is a unique gana of potential nephroprotective & phytoconstituents which are capable of restoring healthy kidney functions. Veertarvadi gana have mutral effect causing increase in intra-luminal pressure . Because of this pressure,calculi is expelled quickly as a whole from urinary system.

Dichrosstachys Cineria(Veertaru), Bergenia Ligulata(Ashmabheda), Premna Integrifolia(Sehchar), Tribulus Terrestris (Swadanshtra), are significantly exhibited antihypertensive and (bhedan )lithotripsic activity. Lithotripsic action of these drugs is due to their diuretic(mutral), antispasmodic(vikasi), antiinflamatory(shothaghna), properties which are helpful for painless disintegration and expulsion of calculus. It also helps in preventing the hyperconcentration of urine as well as further complications.

Desmotachya Bipinnata(Kush), Saccharum Spontaneum(Kasa), Arundo Donex(Nala), Imparata cylindrica(Darbha), came under Trunpanchamool & Charak Samhita mentioned these herbs in stanyajanan & mutravirechaniya mahakashay .They are also known as traditional herbs .These herbs have excellent lithotripsic values & also a useful in increase urine volume, diminishing burning sensation of urine , decreasing size of Renal calculai & Vesicle calculai. Also helps in dyspepsia and balancing vitiated vata and pitta doshas.

Barleria Cristata(Sehchar), Premna Integrifolia (Agnimanth), Marsedenia Tenacissima(Morat), Achyranthus aspera (Vashir), Barleria Perionitis(Kurant), these herbs are ushna veerya resulting in decrease of vata , kapha doshas. This group of herbs have multiple actions such as diuretic , regulating physiological p<sup>H</sup> ,crystalloid imbalance . By analyzing the ingredients of all yogas they are either diuretic or lithiotriptic in nature , only single drug is not as potent as group of drugs in Veertarvadi gana to prevent urolithiasis & urinary tract infection . In different type of yoga asanas like Garudasana, Ushtrasana, Bhujangasana,etc are effective in reducing the rate of recurrence of stone as well as providing relief from the pain due to kidney stones.

#### Importance of Veertarvadi Gana

Today's lifestyle ,Global warming,Dietary habits contributes more in formation of urinary calculus. Kidey patient may avoid surgeries by consuming NSAIDS . Analgesic commonly used to relieve pain but it can potentially disturb kidney functions .According to modern science surgery is the only treatment & at the same time there is no assurance regarding recurrence of stones . In this scenario Veertarvadi gana works wonderfully in early symptoms like Mutrakriccha, Urinary tract

infections, kidney failure, Mutrashmari along with this some combinations like Veertarvadi Kashaya ,Gokshurdi churna , Pasanbhedadi churna,Narikelakusuma yoga,Ushirashava ,Gokshuradi guggul are beneficial in the management of Mutrashmari.

### CONCLUSION

Veertarvadi Gana consists of 18 herbs with multi-dimensional properties .There are different therapies which are effective in management of renal stone like life style modification through diet, internal medicine and Kashay . Bhavaprakash Nighantu is treastise of Indian medicinal plants .It contains various remedies among them mutrashmari dravya are explained in it.As there are no satisfactory drugs in modern medicine , herbal medicines are proved to exert their effactiveness at different stages of pathophysiology of renal calculi .Veertarvadi gana themselves possess inhibitory activity against crystallization & anti-oxident activity against free redicles. Veertarvadi gana helps in preventing the urolithiatic renal cell damage, inhibit the calcium oxalate crystal aggregation as well as crystal formation in the metastable solution .The article provides a herbal treatments that provide scope for future research also.

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