

**A REVIEW ON KAKOLYADI GANA OF SUSHRUTA SAMHITA**

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**ABSTRACT**

In the Ayurvedic samhitas kakoliyadi gana are mention. Kakolyadi gana is one of the first gana which is first described in Sushruta samhita. Charaka had already described those dravyas in Jivaniya Mahakasaya with some changes. Vagbhatta mentioned these drugs (except draksha) in a gana with another name called Padmakadi gana. All groups have some common dravyas which are not in use these days because of their unavailability and these dravyas are collectively known as ‘Astavarga’. Astavarga term is first evaluated in Paryayaratnamala. In Paryayratnamala and Kaiyadeva nighantu they have given 2 drugs in 3 groups i.e–Jivakadvaya, Kakolidvaya, and Medadvaya. This gana contain many controversial drugs substitute are now used in place of them.

**KEYWORDS:** Ayurveda, Shushrut, Gana, Drug and Charak.

**INTRODUCTION**

All the drug which mentioned in Kakolyadi gana, most of the drug found in Padmakadi gana of Vagbhatta and Jivniya mahakasaya of Charaka.<sup>[1]</sup> Although work has been done on identification of medicinal plants mentioned under Astavarga, still lot is to be done to

identify the true representatives.

**Brief Description of Plants Described in this Gana:**

According to Acarya Priyavrat Sharma Kakolyadi gana drvaya are mention the their botanical name, family etc.<sup>[2]</sup>

Name	Comman name	Botanical name	Family	Part used
Kakoli	Kakoli Himalayan fritillary	Roscoea procera Wall.	Zingiberaceae	Roots
Ksirakakoli	Ksirakakoli White lily.	Lilium polphyllum D.Doa	Aliaceae	Roots
Jivaka	Jivaka	Malaxis acuminata D.Don	Orchidaceae	Tuber
Rishabhaka	Rishabhaka	Microstylis muscifera Ridley	Orchideaceae	Tuber
Mudgaparni	Mugvani	Phaseolus trilobus Ait	Fabaceae	Panchanga
Mashaparni	Mashvani, Vanurad	Teramnus labialis Spreng	Fabaceae	Roots, Panchanga
Meda	Whorled Solomon's seal	Polygonatum verticillatum L. All	Aliaceae	Rhizome
Mahameda	King's Solomon's seal	Polygonatum cirrhifolium (Wall.) Royle	Aliaceae	Rhizome
Chinnaruha	Guduchi	Tinospora cordifolia (Willd) Miers ex	Menispermaceae	Stem
Karkatangi	Kulirsngi	Pistacia integerrima Stew. Ex Brandis	Anacardiaceae	Gall
Tugashiri	Vamshalochana	Curcuma angustifolia Roxb.	Zingiberaceae	NiryÁsa
Padmaka	Padmakastha	Prunus cerasoides D.Don,	Rosaceae	Stem bark
Prapaundarika	Prapaundarika	Prunus species	Rosaceae	
Riddhi	Shravani	Habenaria edgeworthii H.f.	Orchidaceae	Tuber
Vriddhi	Mahashravani	Habenaria intermedia D.Don	Orchidaceae	Tuber
Jivanti	Dodica	Leptadenia reticulate. W & A,	Asclepiadaceae	Root
Madhuka	Yastimadhu, Mulethi	Glycerrhizi glabra Linn	Fabaceae	Root & stolon

## Chemical Constituent and Research Work of Plants under Kakolyadi Gana

Plants	Chemical Constituents	Research work	References
<i>Roscoea procera</i>	Cardenolides, Flavanoids	Evaluation of immuno modulatory potential of	J Pharm. Bio allied science.2010 oct 2(4); 346-9 Sahu M.S.Deptt of

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Plants	Chemical Constituents	Research work	References
		ethanolic extracts	pharmacognosy Radharaman institute of pharmaceutical science Ratibad Bhopal
Lilium polphyllum	Steroidal glycerides, linalool, steroidal glyceride	-----	-----
Malaxis acuminata	Glycoside, flavanoids, alkaloids	-----	-----
Microstylis muscifera	Glycoside, flavanoids, alkaloids	Immuno stimulants activities	Immuno modulatory agents from plants 1999 page 289-323 progress in inflammation research..Sharadini A.Dahenuka
Phaseolus trilobus	Friedelin, stigmasterol, tannins	Hepatoprotective and antioxidants activities	Journal of Ethnopharmacology vol 129 issue 3 16 june 2010 page 416-419..Fursule R.A, Patil S.D.
Teramnus labialis	Unsaturated fatty acid,lycine, leucine etc amino acid	Antihyperglycemic activities	Phytomedicine ;2000 jan 6 (6)-465-467 Fort D.M.;Rao K Shaman pharmaceuticals south Francisco CA ;USA
Polygonatum verticillatum	Saponin,diosgenin, Phytohormone,Flavaoids	Antipyretic and anticonvulsant activities	Phytotherapy research 2012 Vol.27 Issue 3 Page 468-471...Harron Khan ,M.Saeed
Polygonatum cirrhifolium	Saponin, Phytohormone,sibiricoside A&B	-----	-----
Tinospora cordifolia	Berberine, Giloin	Immuno modulator form with antioxidant activities	Indian academy of science (chem..sci.) vol 114 no.6 Dec.2002 Page 713-719...Veena R Desai, J P Kamat Cell biology division Bhabha Atomic research centre Trombay Mumbai
Pistacia integerrima	Tanins Sterol	Study of anticancer and antifungal activities	Indian journal of pharmaceutical science 2012 Vol.74 Issue 4 Page 375-379...Y.Bibi, S.Nisa Deptt. Of Botany PMAS
Curcuma angustifolia	Glucosides, Enzymes	Evaluation of antioxidant activities of ethanolic extracts	International research journal of pharmacology...Gayatri Nahak , Rajani K. Sahu
Prunus cerasoides	Sukranatin, Zenquanine	-----	-----
Prunus species	Sukranatin, Zenquanine	-----	-----
Habenaria edgeworthii	Bitter substance,starch,minerals	Production of phenolic compound and antioxidants activity in callus suspension	Industrial crops and products 2012.Vol.39 Page 1-6.Lalit Giri ,Praveen Dhyani G.B.Pant Institute of Himalayan envoirement
Habenaria intermedia	Bitter substance,starch,minerals	Protective effect of Habenaria intermedia tuber against acute and chronic physical and psychological stress	Revista brasileira de Farmacognsia 2012 may/june Rev.bras. Farmacogn.Vol.22 Issue 3...Habpu.P.V. ,Snita D.M.
Leptadenia reticulata	Sterols	Antihistaminic activities	3 <sup>rd</sup> International conference on applied mathematics and

			pharmaceutical science (ICAMPS)
			2013 April Page 29-30..Jagdish
			Baheti..Sandip Awasthi
Glycerrhizi	Glycyrrhizin, Isoliquiritin,	Antimicrobial potential	Journal of ethnopharmacology 116
glabra	liquiritin	of	(2008) Page 377-380 ;Vivek
		Roots of Glycerrhizi	Gupta..Atiya Fatima Genetic
		glabra	resources and biotechnology division
			CSIR Lko.

### Properties of plants describe in this gana<sup>[3,4]</sup>

S. No	Name	Rasa	Guna	Virya	Vipaka	Doshakarm
1.	Kakoli	Madhura	Guru, Snigdha	Sita	Madhura	V-P↓
2.	Kshirakapli	Madhura	Guru, Snigdha	Sita	Madhura	V-P↓
3.	Jivaka	Madhura	Guru, Snigdha	Sita	Madhura	V-P↓
4.	Risabhaka	Madhura	Guru, Snigdha	Sita	Madhura	V-P↓

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5.	Mudgaparni	Madhura	Guru, Snigdha	Sita	Madhura	Tridosā ↓
6.	Mashaparni	Madhura	Guru, Snigdha	Sita	Madhura	V-P↓
7.	Meda	Madhura	Guru, Snigdha	Sita	Madhura	P-R-V ↓
8.	Mahameda	Madhura	Guru, Snigdha	Sita	Madhura	P-R-V ↓
9.	Chinnaruha	Madhura	Guru, Snigdha	Ushna	Madhura	Tridosā ↓
10.	Karkatasringi	Kashaya	Laghu, Ruksha	Ushna	Katu	K-V ↓
11.	Tugakshiri	Madhura	Laghu, Snigdha	Sita	Madhura	K-P ↓
12.	Padmaka	Kashaya	Laghu, Snigdha	Sita	Katu	K-P ↓
13.	Prapaundarika	Kashaya	Laghu, Snigdha	Sita	Katu	K-P ↓
14.	Riddhi	Madhura	Guru, Snigdha	Sita	Madhura	Tridosā ↓
15.	Vrddhi	Madhura	Guru, Snigdha	Sita	Madhura	V-R↓
16.	Jivanti	Madhura	Laghu, Snigdha	Sita	Madhura	V-P↓
17.	Madhuka	Madhura	Guru, Snigdha	Sita	Madhura	V-P↓

### DISCUSSION

Under Kakolyadi gana 17 drugs are enumerated. Dravya of this gana is predominantly of madhur rasa, madhur vipaka, Sita virya and snigdha guna. Karkatasringi is kashaya rasa and Ushna virya. Guduchi, padmaka and prapaundarika is tikta rasa. By these properties this gana is pittavatahara, kaphahara, vrishya, stanya, vrimhana, jivana and raktasodhak. One thing is observed that all the drug which are mentioned in this gana have specific habitat i.e. found in high altitude and they are not available easily, so the tradition of Pratinidhi dravya comes in to existence. There are two traditions for Pratinidhi dravya described by Bhavaprakasha and Bhaisajyaratnawali.

Kakolyadi gana of Sushruta is pittaraktaahara, jivana, vrimhana vrisya, stanya, sleshmakara. This guna can also be certified by mahakasaya which is described by charak with their action are as Kakolidvaya of vrimhanaiya mahakasaya, Jivakadvaya, kakolidvaya, mudgaparni, Mashaparni, meda of shukrajanana mahakasaya Kakolidvaya, mridvika, madhuka, meda, jivaka, jivanti of snehopaga mahakasaya of charak present in this gana of Sushruta which confirms its property. Due to its madhur rasa, madhur vipaka, Sita virya it paccifies vata,pitta and Rakta dosha. Due to its madhur rasa, madhur vipaka, Sita vrisya and snigdha guna

it is vrisya, stanya, vrimhana, jivana.

### CONCLUSION

So it can be concluded that most of the drug under this group are not easily available, So one can use their Pratinidhi dravyas according to dosha and vyadhi. The gana can also be used to promote health i.e. "Swasthasya swasthya rakshnam" preventive disease due to its jivniya, Stanya Brihana and vrisya, property. It is helpful to paccifies vataj, pittaj and raktaja dosha with their specific guna.

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