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A REVIEW ON KAKOLYADI GANA OF SUSHRUTA SAMHITA

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Abstract: In the Ayurvedic samhitas kakoliyadi gana are mention. Kakoliyadi 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 Paryayratnamala. 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 Kakoliyadi gana, most of the drug found in Padmakadi gana of Vagbhatta and Jivniya mahakasaya of Charaka.^[1] 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 Kakoliyadi gana dravya are mention the their botanical name, family etc.^[2]

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

Chemical Constituent and Research Work of Plants under Kakoliyadi 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

		ethanolic extracts	pharmacognosy Radharaman institute of pharmaceutical science Ratibad Bhopal
<i>Lilium polphyllum</i>	Steroidal glycerides, linalool, steroidal glyceride	-----	-----
<i>Malaxis acuminata</i>	Glycoside, flavanoids, alkaloids	-----	-----
<i>Microstylis muscifera</i>	Glycoside, flavanoids, alkaloids	Immuno stimulants activities	Immuno modulatory agents from plants 1999 page 289-323 progress in inflammation research..Sharadini A.Dahenuka
<i>Phaseolus trilobus</i>	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.
<i>Teramnus labialis</i>	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
<i>Polygonatum verticillatum</i>	Saponin, diosgenin, Phytohormone, Flavaoids	Antipyretic and anticonvulsant activities	Phytotherapy research 2012 Vol.27 Issue 3 Page 468-471....Harron Khan ,M.Saeed
<i>Polygonatum cirrhifolium</i>	Saponin, Phytohormone, sibiricoside A&B	-----	-----
<i>Tinospora cordifolia</i>	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
<i>Pistacia integerrima</i>	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
<i>Curcuma angustifolia</i>	Glucosides, Enzymes	Evaluation of antioxidant activities of ethanolic extracts	International research journal of pharmacology...Gayatri Nahak , Rajani K. Sahu
<i>Prunus cerasoides</i>	Sukranatin, Zenquanine	-----	-----
<i>Prunus species</i>	Sukranatin, Zenquanine	-----	-----
<i>Habenaria edgeworthii</i>	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 environment
<i>Habenaria intermedia</i>	Bitter substance, starch, minerals	Protective effect of <i>Habenaria intermedia tuber</i> 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.
<i>Leptadenia reticulata</i>	Sterols	Antihistaminic activities	3 rd International conference on applied mathematics and pharmaceutical science (ICAMPS) 2013 April Page 29-30..Jagdish Baheti..Sandip Awasthi
<i>Glycerrhiza glabra</i>	Glycyrrhizin, Isoliquiritin, liquiritin	Antimicrobial potential of Roots of <i>Glycerrhiza glabra</i>	Journal of ethnopharmacology 116 (2008) Page 377-380 ;Vivek Gupta..Atiya Fatima Genetic resources and biotechnology division CSIR Lko.

Properties of plants describe in this gana ^[3,4]:

S. No	Name	Rasa	Guna	Virya	Vipaka	Doshakarm
1.	Kakoli	Madhura	Guru, Snigdha	Sita	Madhura	V-P
2.	Kshirakakpli	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

5.	Mudgaparni	Madhura	Guru, Snigdha	Sita	Madhura	Tridosha
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	Tridosha
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	Trido a
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 existance. There are two traditions for Pratinidhi dravya described by Bhavaprakasha and Bhaisajyaratnawali.

Kakolyadi gana of Sushruta is pittaraktahara, 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 vriya 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 pacifies vataj, pittaj and raktaja dosha with their specific guna.

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