

Vidarigandhadi Gana of Sushruta Samhita: A Review of its Clinical Indications

Dipti^{1*}, Kumar S² and Rath SK¹

¹PG Department of Dravyaguna Vigyana, NIA, India ²Department of Kayachiktisa, Ayurvedic and Unani Tibbia College, India

***Corresponding author:** Dipti, PhD Scholar (Ayu), PG Department of Dravyaguna Vigyana, NIA, Jaipur, India; Email: dipti9235@gmail.com

Conceptual Paper

Volume 4 Issue 3 Received Date: July 20, 2020 Published Date: August 25, 2020 DOI: 10.23880/jonam-16000262

Abstract

Medicinal substances are classified in Ayurveda in many ways for convenient learning, understanding and applications. *Acharya Sushrut* has classified medicinal substances under *gana sutra* and these are to be used in later sthana of the text (*chikitsa sthan, uttar tantra* etc.) as per *ayurveda* principle. The first *gana* i.e. *vidarigandhadi gana* is taken for analysis for its clinical indication from *sushrut samhita* and its commentaries. Review showed that the indication of this *gana* vis-a-vis *shosha, gulma, shwasa, kasa* have clinical applicability in other Sthana of *Sushrut samhita*. Study reveals it can be given in various other clinical conditions like *udaroga, apasmara, vidradhi, abhishyanda, atisaar, raktapitta, pratishyaya, trishna, mutrakriccha* etc. after analysing the dosha. This *vidargandhadhi gana* follows the principle of *sutra* being used in later part of text and it is not only having *vata pitta* vitiating property but also *balya* by its nature.

Keywords: Gana; Vidarigandhadi; Ayurveda; Clinical applications; Sutra; Sushrut samhita

Abbreviations

Su: *Sushrut samhita;* T: Tika (Commentary); u: *uttar tantra*; chi: *chikitsa sthana;* sh: *sharira sthana;* su: *sutra sthana;* Ch.chi: *Charak samhita chikitsa sthana.*

Introduction

Dravya is the most important tool in therapeutics. It is also one of the four foundational factors of therapeutics; physician, patient and attendant being the other three [1]. Here *Charaka* explains that success of therapeutics is not ensured only by mere presence of these four but by their qualitative excellence. *Ayurveda* states that any substance of this world can be used as medicine when applied with proper rationale and in correct indication [2]. *Charaka* states that a single medicinal substance can be used in various clinical conditions depending upon dose, dosage, condition of the patient, etc [3]. Therefore there are practically countless medicinal substances which are used in therapeutics. As there are countless medicinal substances, though not impossible but it is very difficult to learn, understand and apply each medicinal substance individually. Therefore medicinal substances are classified on basis of certain common parameters like morphology, pharmacological action, therapeutic uses, etc [4]. *Charaka* has classified the medicinal substances into groups such as *mahakashaya*, *moolini*, *phalini*, etc. *Sushruta* has classified medicinal substances into different *Gana*. *Gana* means group of drugs having similar and special characteristics either in *swaroop* (morphology), *rasa* (taste), *guna* (properties), *karma* (pharmacological actions). *Vagbhatta* has used both *mahakashaya* and *gana* at separate places for classifying medicinal substances.

Acharya Sushruta has explained 37 gana and each gana has multiple indications. The components in these gana are included in such a way that they have similar action and properties. The nomenclature of *Gana* is given by the first drug in that particular *Gana* e.g. in *Vidarigandhadi Gana*-

Journal of Natural & Ayurvedic Medicine

Vidarigandha is the first drug mentioned in this *gana*. Each *gana* is followed by its potential action on *dosha*, *dhatu*, *mala* and clinical indication.

The Ayurvedi samhita texts follow a method wherein sutra (principles) are described in the beginning of samhitas in the sutrasthana with a tenet of using them in subsequent chapters like nidan (diagnosis) and chikitsa (therapeautics) [5]. Gana is one such sutra (principle), which logically would be used in the later part of samhita. Also Sushrut has opined that these groups of drugs (gana) are mentioned in brief in sutrasthana, their detail uses would be described in section of treatment [6]. Against this background, present study was taken to review the clinical implication of Vidarigandhadi gana in other sthana of sushrut samhita.

Materials and Methods

All references regarding Vidarigandhadi gana

was collected from *Sushrut Samhita* and its available commentaries. These refecrences were thoroughly analysed to establish linkages between the indications and uses mentioned in *Sutra Sthana* and actual uses in other *sthana* of *sushrut samhita* (*Chikitsa Sthana, uttar tantra* etc). The indications and uses of *Vidarigandhadi gana* was then categorized on basis of its use in diseases mentioned in *Sutra Sthana*, as per *Dosha prabhava* of the *Gana* and also in conditions where in linkages could be logically established based on the *doshic* involvement of the disease.

Observation & Results

Vidarigandhadi gana comprises of 20 *dravyas* all of plant origin. This *gana* is said to be useful in *Shosha*, *Gulma*, *Angamarda*, *Kasa*, *Shwasa* and having *Vata-Pittanashak* property (Tables 1 & 2).

<u>Sno</u>	Sanskrit name	Botanical name	Family	Rasa	Guna	Virya	Vipaka	doshashaman
1	Vidaarigandha	Desmodium gangeticum DC.	Fabaceae	Madhur, tikta	Guru, snigdha	Ushna,	Madhur	Tridoshhar
2	Vidaari	Vidarikanda(alpakshira)- Pueraria tuberosa DC.	Fabaceae	Madhur	Guru, snigdha	Sheeta	Madhur	Vatapittahar
		Kshirvidari(bahu kshira)- Ipomeadigitata Linn.	Passifloraceae					
3	Vishwadeva	<i>Grewia populifolia</i> Vahl. [= Grewia tenex (Forssk.) Fiori]	Tiliaceae	Madhur	laghu, snigdha ,picchilla	Sheeta	Madhur	Vatapittahar
4	Sahadeva/ balabheda (PV sharma)			Madhur	Laghu, snigdha, picchila	Sheeta	Madhur	Vatapittahar
5	Swadamshtra	<i>Tribulus terrestris</i> Linn.	Zygophyllaceae	Madhur	Guru, snigdha	Sheeta	Madhur	Vatapittahar
6	Prithakparni	Uraria Picta Desv.	Fabaceae	Madhur, tikta	laghu, snigdha	Ushna	Madhur	Tridoshhar
7	Shatavari	Asparagus racemosus Willd.	Liliaceae (asparagaceae)	Madhur, tikta	Guru, snigdha	Sheeta	Madhur	Vatapittahar
8	Saariva	Hemidesmus indicus R.Br.	Periplocaceae	Madhur, tikta	Guru, snigdha	Sheeta	Madhur	Tridoshhar
9	Krushnasaariva (API Vol-4)	<i>Cryptolepis buchanani</i> Roem and Schult.	Periplocaceae	Madhur, tikta	Guru, snigdha	Sheeta	Madhur	Tridoshhar
10	<i>Jivaka</i> (API volume 5)	<i>Microstylis wallichii</i> Lindll.	Orchidaceae	Madhur	Snigdha, picchila	Sheeta	Madhur	Vatapittahara
11	Rishbhaka	<i>Microstylis mucifera</i> Ridley.	Orchidaceae	Madhur, kashaya	Laghu, snigdha	Sheeta	Madhura	Vatapittahara

Journal of Natural & Ayurvedic Medicine

12	Mahasaha	Teramnus labialis Spreng.	Fabaceae	Madhur, tikta	Laghu, snigdha	Sheeta	Madhur	Vatapitthara, kaphavardhak
13	Kshudrasaha	Phaseolus trilobus Ait.	Fabaceae	Madhur, tikta	Laghu, snigdha	Sheeta	Madhur	Vatapitthara, kaphavardhak
14	Bruhati (Big)	Solanum indicum Linn.	Solanaceae	Katu, tikta	Laghu, ruksha, tikshna	Ushna	Katu	Kaphavatashamak
15	Bruhati (Small)	Solanum xanthocarpum Schrad. And Wendle	Solanaceae	Katu, tikta	Laghu, ruksha, tikshna	Ushna	Katu	Kaphavatashamak
16	Punarnava	Boerhaavia diffusa Linn.	Nyctaginaceae	Madhura, tikta, kashaya	Laghu, ruksha	Ushna	Madhur	Tridoshhar
17	Eranda	<i>Ricinius communis</i> Linn.	Euphorbiaceae	Madhura, anurasa- katu, kashaya	Snigdha, tikshna, sukshma	Ushna	Madhur	kaphavatahar
18	Hamsapadi	Adiantum lunulatum Burn.	Adiantaceae	Kashaya	Guru	Sheeta	Madhur	Kaphapittashamak
19	Vrishchikali (API Volume 6)	Pergularia extensa N.E. Br.	Asclepiadaceae	Katu, kashaya	Laghu, ruksha, vishad	Anushna	Katu	kapha nisaraka
20	Rishabhi	Mucuna pruriens DC.	Fabaceae	Madhura, tikta	Guru, snigdha,	Ushna	Madhura	Vatahar, kapha pitta vardhak

Table 1: Botanical identity and rasapanchaka of Dravya of vidarigandhadi gana [7-10].

Gana Indication	Reference	Indication in text	Description
Shosha	Su.u.T. 41/32,33	Shoshapratisheda adhyaya	The patient of <i>shosha</i> have been uncted(<i>snehana</i> done) with <i>ghrit</i> of goat and sheep processed with <i>sthiradi</i> <i>varga</i> (<i>vidarigandhadi</i> group) before emesis and purgation.
Gulmaangamarda	Su.u.T. 42/60- 61	Gulmapratishedha adhyaya	All <i>Arishta</i> should be prepared with roots of <i>danti</i> and <u>chitraka</u> and also thed rugs of <i>vata</i> alleviating groups(<i>Vidarigandhadi</i>)
Urdhwa Shwas	Su.u.T. 51/17	Shwasha	<i>Ghee</i> processed with paste of <i>pippalayadi</i> drugs along with decoction of <i>pratham gana</i> (<i>vidarigandhadi</i> drugs) added with five salts alleviates <i>shwasa</i> (dyspnea) and cough
	Su.u.T. 51/17	kasa	Ghee processed with paste of <i>pippalayadi</i> drugs along with decoction of <i>pratham gana</i> (<i>vidarigandhadi</i> drugs) added with five salts alleviates dyspnea and <i>kasa</i> (cough)
Kasa	Su.u. 52/26	vatika kasa chikitsa	Ghrit cooked with vidarigandhadhi drugs
	Su.u. 52/32,33	Kasa caused by pitta, kshata and excessive sex	<i>Ghrit</i> cooked with decoction of <i>vidarigandhadi, utpaladi,</i> <i>sarivadi,</i> and <i>madhura (kakolyadi)</i> drugs, sugarcane juice, water, milk along with paste of <i>kakolyadi</i> drugs should be taken with sugar in morning

Table 2: Indication of *Vidarigandhadi gana* related to diseases.

Reference	Indication in text	Description				
	Pittanashana					
Su.chi.14/6	Pittodar chikitsa	Mik processed with vidarigandhadi gana is given for feeding				
Su.u.T. 61/29	Paittika apasmaar	<i>Ghee</i> cooked with decoction of <i>pratham gana</i> (<i>vidarigandhadi gana</i>) and paste of <i>kakolyadi gana</i> added with mik, honey and sugar				
		Vatanashan				
Su.chi.T. 4/14- 15	Vataroga	Salvana is prepared with kakolyadi, and vataghna (bhadradarvadi, vidarigandhadi gana)				
Su.chi. 4/29	Vatavyadhi chikitsa	Sahsra paka taila ingredient				
Su.chi.14/5	Vata udar chikitsa	Snehan done with ghee cooked with vidarigandhadi drugs. non- unctuous and unctuous enema with vidarigandhadi decoction added with oil of danti seeds. Patient should be fed with milk processed with vidarigandhadi gana				
Su.chi.T. 16/4- 5	Vataj vidradhi	<i>Kakolyadi gana</i> and <i>tarpana</i> (<i>vidarigandhadi gana</i>) mixed with marshy and aquatic meat cooked with fat, sours and salts used as poultice				
Su.u.T. 9/10	Vataabhishyandapratisheda	Milk processed with <i>vidarigandhadi gana</i> is useful in <i>vata</i> associated with <i>pitta</i>				
Su.u.T. 24/25	Vatik pratishyaya	Ghee cooked with five salts and vidarigandhadi gana is given for drinking				
Su.u. 59/18	Vataja mutakricha chikitsa	Oil or <i>ghee</i> mixed with other three fats should be cooked with <i>gokshura</i> , <i>pashanabheda</i> etc., <i>vidarigandhadi gana</i> . Given as internal administration or unctuous enema or urethral douching.				
Su.u.T. 17/33	Vataraktaj timira	Oil cooked with <i>sthiradi gana(vidarigandhadi gana)</i> and sweet (<i>kakolyadi gana</i>) group				

Table 3: Indication of Vidarigandhadi Gana Related to Doshik Predominance.

Reference	Indication in text	Description
Sutika paricharya	Su.sh.10/16	Fatty gruel or Milk gruel processed with <i>vidarigandhadi</i> <i>gana</i> after purification
Makkala shula	Su.sh.10/22	Decoction of <i>viadarigandh</i> i drugs mixed with devadaru and maricha
Hanuasthi bhagna	Su.chi.T. 3/39/40	Ghee cooked with <i>vataghna dravya</i> i.e. <i>vidarigandhadi gana</i> is used as snuff
Virechan dravyavikalp vigyaniya adhyaya	Su.su.T.44/35-36	Sauviraka nirmana
Virechan dravyavikalp vigyaniya adhyaya	Su.su.T.44/40-44	Tushodaka ingredient
Garbha appyayan	Su.sh.10/57	If there is pain without bleeding, milk processed with <i>vidarigandhadi</i> plants is given
Garbha apyayan	Su.sh.T.10/4	Ghee processed with prithakparnyadi (vidarigandhadi drugs)
Visarpanadistanarogachikitsa	Su.chi.T.17/ 12	Gauryadi ghrita ingredient
Aptanak chikitsa	Su.chi. 5/18	<i>Ghee</i> cooked with decoction of <i>vidarigandhad</i> i drugs, meat juice, milk and curd is given after <i>shira shudhi</i>
Ardit chikitsa	Su.chi. 5/22	kshira taila ingredient
Raktapitta (basti)	Su.u. 45/38	Non-unctuous enema with milk boiled with <i>vidarigandhadi</i> gana

Brihmana basti	Su.chi.T. 38/83	Decoction of <i>brihman dravya</i> (<i>vidarigandhadi</i> drugs) mixed with the paste of <i>kakolyadi gana</i> with <i>ghee</i> and meat juice makes weight promoting enema
Karnashula	Su.u.T. 21/28	Four types of <i>sneha</i> cooked with urine, sour and decoction of <i>vataghna gana (vidarigandhadi gana)</i>
Pratishyaya	Su.u.T. 24/38	<i>Ghee</i> or oil preparation from <i>vataghna dravya</i> (<i>vidarigandhadi</i> drugs)-(ingredient)
Shirorogpratisheda adhyaya (Shankhaka chikitsa)	Su.u.T. 26/41	Irrigation and paste of <i>sheeta virya</i> drugs (<i>vidarigandhadi gana</i>) is used
Pravahika	Su.u.T 40/ 144	Oil cooked with <i>vata</i> alleviating drugs(<i>vidarigandhad gana</i>) and salt is beneficial for processing food and intake
Shulayukta pravika chiktsa(bhojan)	Su.u. 40/146	In case of pain, patient should take food with milk processed with <i>trikatu</i> and <i>vidarigandhadi gana</i>
Vataja trishna	Su.u.T. 48/19	Warm water processed with with <i>pratham gana</i> (vidarigandhadi gana)
Kshataj trishna	Su.u.T, 48/25	Decoction prepared with <i>sarivadi, trinapanchamula, utpaladi</i> and <i>prataham gana (vidarigandhadhi gana)</i> is given for drinking
<i>Mutraghata (</i> Retention of urine caused by <i>vata</i> and <i>kapha)</i>	Su.u.T. 58/33	Roots of <i>Prithakparnyadi varga (vidarigandhadi gana)</i> and <i>gokshura</i> should be cooked in water and milk. It should be taken with sugar and honey

Table 4: Vidarigandhadi Gana in other Clinical Conditions.

Discussion

Vidarigandhadi gana from sushruta samhita is reviewed and analysed from the text and commentaries as per their given indication and to find out possibility of any new indication. It is indicated in Shosha, Gulma, Angamarda, Kasa, Shwasa and having Vata-Pittanashak property [11]. On preliminary review, it has been found that its indication in other section of text is given in various clinical conditions like Vatavyadhi, Udararoga, Atisaar, Raktapitta, Mutrakricha etc (Table 3). For instance, Milk processed with vidarigandhadi gana is given as food in pittaj udara roga (Table 3) in uttartantra which could be the implication of principle of sutrasthana as per their indication given. On analysing, it has been found that vidarigandhadi gana has 8 direct indication related to vata dosha and 2 indication related to pitta dosha in different clinical conditions like udaroga, apasmara, vidradhi, abhishyanda, atisara, pratishyaya, etc. (Table 3) and one for each shosha, gulma and shwasa. It is given 3 times for kasa while no reference is found for angamarda (Table 2).

Gana give direct indication for shosha, gulma, shwas, and kasa but their dosage form, adjuvant etc. are being explained by sushruta in its descriptive chapter. For instance, ghee processed with Vidarigandhadi gana is directly indicated for Vatika kasa [12]. Vidarigandhadi gana processed with milk and ghrit are commonly used dosage forms used in various clinical conditions by acharya sushruta. Vidarigandhadi gana processed formulations are advised in new indications like sutika paricharva, makkala shula, hanuasthi bhagna, garbha appyan, aptanak, ardita, shankhaka, pratishaya, pravahika, trishna and mutraghata (Table 4). It seems that this gana has been used in situations where vata dosha is aggravated along with loss of bala. In sutika paricharya, after shodhan (3 days after delivery), acharya has advised vidarigandhadi gana processed milk gruel. It would have been given to alleviate vata dosha and enhance the body strength. Makkal shula is the pain found at nabhi, basti and udar, in sutika (female for 45 days after delivery) along with bloated stomach due to aggravated vata, here Sushrut indicated decoction of vidarigandhadi gana sprinkled with devdaru and maricha powder. If there is pain without bleeding during pregnancy, Sushrut indicated vidarigandhadi gana processed milk to alleviate vata which is the obvious cause of pain. In aptanak which comes under vata vyadhis, sushrut indicated the use of Ghee cooked with decoction of vidarigandhadi drugs, meat juice, milk and curd is given after shira shudhi to control the spreadability of vata. In karnashula, shushrut mentioned that the ear should be filled with four types of *sneha* cooked with urine, sour and decoction of vidarigandhadi gana. In raktapitta, rakta and pitta both are in its aggravated form therefore sushrut give vidarigandhadi processed milk basti in such situation (Su.u. 45/4-5). In shankhaka, irrigation and paste of sheeta virya drugs i.e. vidarigandhadi gana etc. is used to reduce the intensity of aggravated vata, pitta, kapha, rakta to get the relief from pain. In trishna main aggravated doshas

are vata and pitta, sushrut have mentioned Warm water processed with with vidarigandhadi gana in vataj trishna and decoction prepared with sarivadi, trinapanchamula, utpaladi and vidarigandhadhi gana in kshataj trishna to maintain the mentioned doshas. In Vata-Pittaj Mutraghata, sushruta has given that the roots of vidarigandhadi gana and gokshura should be cooked in water and milk and taken with sugar and honey to compensate the intensity of doshas and get the homeostasis. In pravahika frequent watery bowel movements leads to loss of water and electrolyte along with alleviation of vata and agninasha (Ch.chi.19/30). For the management of such situation Sushrut indicated food processed with trikatu and vidarigandhadhi gana, trikatu is to maintain the agni and vidarigandhadhi gana drugs with milk to compensate the loss of fluid and to hold the vata dosha to maintain the haemostasis. After analysing the clinical condition, dose, dosage forms mentioned by acharya, it is found that the vidargandhadhi gana is not only having vata pitta vitiating property but also balya by its nature. It also follows the principle of sutra being used in later part of text.

Conclusion

Acharya sushrut have aggregated some ingredients into one gana based upon their commonality in morphology, properties, actions, etc. The first gana, Vidarigandhadi gana is analysed and it showed that it follows the principle in which sutra is described briefly in sutra sthana which is to be used in later part of samhita i.e. the indication of this gana vis-avis shosha, gulma, shwasa, kasa have clinical applicability in other Sthana of Sushrut samhita. Study showed that it can be given in various other clinical conditions like udaroga, apasmara, vidradhi, abhishyanda, Atisaar, raktapitta, pratishyaya, trishna, mutrakriccha etc. after analysing the separate dosha or mixed dosha.

References

 Agnivesha (2016) Charaka Samhita elaborated by Charaka & Dridhabala with Ayurveda Deepika commentary by Chakrapanidatta edited by Acharya YT, Chaukhamba Sanskrit Prakashana: Varanasi. Sutrasthan 9/3, pp: 61.

Journal of Natural & Ayurvedic Medicine

- Agnivesha (2016) Charaka Samhita elaborated by Charaka & Dridhabala with Ayurveda Deepika commentary by Chakrapanidatta edited by Acharya YT, Chaukhamba Sanskrit Prakashana: Varanasi. Sutrasthan 26/12, pp: 138.
- Agnivesha (2016) Charaka Samhita elaborated by Charaka & Dridhabala with Ayurveda Deepika commentary by Chakrapanidatta edited by Acharya YT, Chaukhamba Sanskrit Prakashana: Varanasi. Sutrasthan 4/22,29, pp: 61.
- Acharya YT (1997) Dravyaguna Vigyanam I, 7th (Edn.), Baidyanath Ayurveda Bhavan: Nagpur, pp: 6.
- Agnivesha (2016) CharakaSamhita elaborated by Charaka&Dridhabala with Ayurveda Deepika commentary by Chakrapanidatta edited by Acharya YT, Chaukhamba Sanskrit Prakashana: Varanasi. Sutrasthan 30/45,46, pp: 190.
- 6. Sushruta (2014) Sushrutasamhita with commentary of Dalhana edited by Acharya YT, et al. (Eds.), Chaukambha Sanskrit sansthan: Varanasi, Sutrasthana 38/80, pp: 170.
- Sharma PV (2014) Dravyaguna vigyan (Vedic plants and history of Dravyaguna); Vol 2, Varanasi: Chaukhambha bharti academy.
- 8. API (Ayurvedic Pharmacopoeia of India) (1999) Ministry of Health and Family Welfare, Government of India, New Delhi.
- Sharma PV, Talmale SR (2002) Plants and other drugs of Susruta samhitas aptaadhyayi. The Director, Rashtriya Ayurveda Vidyapeeth, New Delhi.
- 10. Chunekar KC (1982) Bhavaprakasa Nighantu. Chaukhambha Bharti Academy, Varanasi, India
- 11. Sushruta (2014) Sushrutasamhita with commentary of Dalhana edited by Acharya YT, et al. (Eds.), Chaukambha Sanskrit sansthan: Varanasi, Sutrasthana 38/5, pp: 164.
- 12. Sushruta (2014) Sushrutasamhita with commentary of Dalhana edited by Acharya YT, et al. (Eds.), Chaukambha Sanskrit sansthan: Varanasi, Uttar tantra 52/26, pp: 768.

