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Review Article

COMMENTATORS VIEW ON MEDICINAL PLANTS OF SUSHRUTOKTA SALSARADI GANA REGARDING THEIR CONTROVERSIAL BOTANICAL IDENTITY: A REVIEW

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ABSTRACT

Sushruta Samhita is one of the foundational literature included in the Brihat traiye literatures of Ayurveda. Out of 37 different Ganas mentioned in Sutra Sthana of Sushruta Samhita. Dravva-sanarahaniva-adhvava: Salsaradi-aana is one of them in which 23 medicinal plants have been described. Classically Salsaradi-gana is clinically indicated for Kushta (skin diseases), Prameha (diabetes mellitus), Pandu (anemia), and Kapha-medovishoshana (anti-hyperlipidaemic) disease. For this study, a review of the original commentary of Acharya Dalhana and Acharya haranchandra on Sushruta Samhita and the scientific research papers published on the medicinal plants listed in the Salsaradi-gana of Sushruta Samhita in indexed journals is done. Out of 23 medicinal plants mentioned 8 plants have controversial identification. The controversy in the identification of these medicinal plants is seen directly affecting the pharmacological action and clinical efficacy. Those 8 plants' controversial identity is cleared with the establishment of a genuine plant for each of the plants through scientific and classical justification.

INTRODUCTION

Avurveda is the ancient system of medicine that contains many Samhitas and Nighantus such as Charak Samhita, Sushruta Samhita, Astanghridaya, Kaideva nigantu, Priya nighantu, etc. Salsaradi Gana of Sushruta is described in Sushruta Samhita Sutra sthan, Dravvasanarahaniva Adhvav, where 37 Ganas have been included in which Salsaradi gana is ranked in 5th place. Classically Salsaradi-gana is clinically indicated Kushta (skin diseases), Prameha (diabetes for mellitus). and Kapha-medo-Pandu (anemia). vishoshana (anti-hyperlipidaemic) disease.

During Samhita-Kaal identification of the plants in Salsaradi-gana was not an issue anymore. Geographical variations, lack of transportation facilities, expansion of citizenship, trade of medicinal plants, and ignorance of plant taxonomy are the main

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reasons for controversy in the identification of classical medicinal plants in Ayurveda. In the due course of the commentator's period, the controversy in the identification of medicinal plants became apparent.

The commentaries have rendered plants differently than whatever it is originally depicted in Samhita. Diverse scholarly comments on the Sushruta Samhita or Salsaradi-gana initiated the controversy in the identification of medicinal plants of Salsaradi-gana. Due to controversy or lack of genuine identification of particular plants in the Gana, their individual, as well as collective pharmacological action and clinical efficacy, is in jeopardy. To address this existing gap by clearing the controversy in the identification of medicinal plants this study is made.

MATERIAL AND METHOD

Systematically reviewed the original commentary of Acharya Dalhana and Acharya Haranchandra on Sushruta Samhita and the scientific research papers published on the medicinal plants listed in the Salsaradi-gana of Sushruta Samhita in indexed journals.

RESULTS

Following are the *Salsaradi-gana* medicinal plants: [1]

1. Salsara 2. Ajakarna 3. Khadira 4. Kadara 5. Kalskandha 6. Kramuka 7. Bhurja 8. Meshshringa 9. Tinisha 10. Chandana 11. Kuchandana 12. Shimshapa **Table.1**

13. Shirisha 14. Asana 15. Dhava 16. Arjuna 17. Tala 18. Shaka 19. Naktamala 20. Pootika 21. Ashwakrna 22. Aguru 23. Kaleeyaka

Different opinions on medicinal plants of *Salsaradi-gana* according to different commentators:

S. No.	Medicinal	Commentary	Commentary	
	plant	(Acharya Dalhana) ^[2]	(Acharya haranchandra)[3]	
1	Salsara	Salah shankuh, Tasyasarahsalsarah Shanku, a variety of Sarja and its resinous exudation is Salasar	Salasyasarahsalsarah Sar of Sala is known as Salsara	
2	Ajakarna	Ajakarnahsarjahsalbhedaeva Ajakarna is Sarja, which is Salbheda	Ajakarnahsalbhedah It is Salbheda	
3	Khadira	Khadirogayatreeswanamkhyatah Syn. Gayatri and well known	No commentary	
4	Kadara	Kadarahkhadirakarhswetasarah A type of Khadira having yellowish-white heartwood	Kadarah "Vavala" Etiprasiddhah It is known by Vavala	
5	Kalskandha	No commentary Kalskandhastamalah It is Stamala		
6	Kramuka	Kramukahpoogah, Kechitkamugaitipathanti, Atrapisaevarthah, Vriksharodhraitianyesaradhikarat It is Pooga, others take it as 'Rubuka' or 'Vrikharodhra' (Because of the context of heartwood)	Kramukah Poogah Kramuka is Pooga	
7	Bhurja	Bhurjomriditwakswanamkhyatah It is common having soft bark.	No Commentary	
8	Meshshringa	Meshshringahkarkatshringah, Sa cha putrajivaksadrishastaruvisheshah Meshshringa and Karkatshringa both trees similar to Putrajivaka	No Commentary	
9	Tinisha	Tinishahsyandanah, 'Sadan' Itilokeprasidhdhah Syandan, locally as 'Sadana' Tinishonamaushadhimarthu she "Tinasha" Itikhyate In Marthura it is well know Tinisha.		
10	Chandana	Chandanamshreechandanam 'Shreekhanda' Itiprasidhdham It is Shreechandana which is popularly known as Shreekhanda	Chandansabdanehaswetachandana mevagrihyatenaturaktamkuchanda netiprithagunadanat It is Swetachandan, it is not Raktachandan	
11	Kuchandan	Kuchandanamraktachandanam It is Raktachandan	No Commentary	
12	Shimshapa	Shimshapakrishnasara 'seesae' itiloke A common tree having black heartwood	Shimshapa "shishu" Etilaukikah Well known by Shishu	
13	Shirisha	Shirishovishghatee, 'Shirasa' Itiloke Syn. Vishghatee, which is a common tree	No commentary	
14	Asana	Asano Beejakahpurvadesheprasiddhah It is Bijaka, common in the eastern region	Asanahpeetasalah It is Peetasal	

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15	Dhava	Dhavahshakatakhyahswanamprasiddhah Known by this name itself, synonym 'Shakata'	No Commentary
16	Arjuna	Arjunahkakubhah A common tree, having 'Kakubha'as synonym	No Commentary
17	Tala	Talahswanamkhyatah Well known by this name itself	No Commentary
18	Shaka	Shakahpoorvadesheprasiddhomahakharpatrah Famous in the eastern area, having big leaves smooth on one surface and rough on the other surface	Shakah "shegun" etiprasiddhah It is well-known by shegun
19	Naktamala	Naktamalobrihatkaranjah Naktamal is Brihatkaranj.	No Commentary
20	Pootika	Pootikahchirbilvah Pootika is chirbilva	Pooteekanaktamalokaranjbhedo It is Karanjbheda
21	Ashwakrna	Ashwakarnogandhamundoashwatthasadrishahpoo rvadesheprasiddhah A common tree in the eastern region like Aswattha and known as Gandhamunda	Ashwakarnahsalbhedah It is Salbheda
22	Aguru	Aguruswanamkhyatah Well-known by this name itself	No Commentary
23	Kaleeyaka	Kaleeyakam 'Malendichandanam' Etiprasiddham It is known as Malendrichandan	Kaleeyakam"kaleeya" etiprasiddhamkrishnachandanam It is known as Kaleeya which is Krishnachandana

Table.2

able.			
No	Drug	Botanical source	Botanical Source
		(Sushruta Saptadhyayi) ^[4]	(Acharya Priyavrat Sharma)
1	Salsara	Shorea robusta Gaertn.	Shorea robusta Gaertn. ^[5]
2	Ajakarna	Vateria indica Linn.	Vateria indica Linn. ^[6]
3	Khadira	Acacia catechu Willd ³	Acacia catechu Willd. ^[7] New: Senegalia catechu (L.f.) P.J.H. Hurter & Mabb*
4	Kadara	Acacia suma BuchHam.	Acacia suma BuchHam. ^[8] New: Senegalia polyacantha (Willd.) Seigler & Ebinger*
5	Kalskandha	Diospyro smelanoxylon Roxb.	Diospyro speregrina (Gaertn.) Gurke ^[9] New: Diospyros malabarica (Desr.) Kostel*
6	Kramuka	Areca catechu Linn.	Lagerstroemia speciosa (L.) Pers.[10]
7	Bhurja	BetulautilisD.Don.	Betula utilis D.Don. ^[11]
8	Meshshringa	Dolichandrone falcate Seem	Dolichandrone falcata Seem. ^[12]
9	Tinisha	Ougenia dalbergioides Benth.	Ougeinia oojeinensis (Roxb.)Hochr.[13]
10	Chandana	Santalum album Linn.	Santalum album Linn.[14]
11	Kuchandana	Caesalpinia sappan Linn.	Caesalpinia sappan Linn. ^[15] New: Biancaea sappan L.*
12	Shimsapaa	Dalbergia sissoo Roxb.	Dalbergia sissoo Roxb.[16]
13	Shirisha	Albizia lebbeck Benth.	Albizia lebbeck Benth.[17]
14	Asana	Pterocarpus marsupium Roxb.	Pterocarpus marsupium Roxb.[18]

15	Dhava	Anogeissus latifolia Wall.	Anogeissus latifolia (Roxb.ex Dc.) Wall. Ex Guill.& Perr.[19]
16	Arjuna	Terminalia arjuna W. and A.	Terminalia arjuna W. and A. ^[20]
17	Tala	Borassus flabellifer Linn.	Borassus flabellifer Linn ^[21]
18	Shaka	Tectona grandis Linn.	Tectona grandis Linn. ^[22]
19	Naktamala	Pongamia pinnata (Linn,) Merr.	Pongamia pinnata (Linn,) Merr.[23]
20	Pootika	Holoptelia integrifolia Planch.	Holoptelia integrifolia Planch.[24]
21	Ashwakarna	Diptero carpusalatus Roxb.	Dipterocarpus turbunatus Roxb.[25]
22	Aguru	Aquilaria agallocha Roxb.	Aquilaria agallocha Roxb. ^[26]
23	Kaleeyaka	Coscinium fenestratum (Gaertn.) Colebr.	<i>Pita chandana</i> ^[27] , Botanical source is not available.

^{*}Plants of world online

DISCUSSION

Salsaradi-gana is one of the very important groups of medicinal plants that have been ascribed by Sushruta Acharya in Sushruta Samhita. Salsaradi-gana contains a total of 23 medicinal plants. In this study, the controversy on those 23 plants is indicated on the ground of commentaries on Sushruta Samhita by Acharya Dalhana and Acharya Haranchandra.

The pharmacological and clinical action of this particular *Gana* on *Kustha, Prameha, Pandu,* and *Kapha-medo-vishoshana karma* [28] is due to their inherent *Rasa, Guna, Virya, Vipaka,* and *Prabhava.* Parallelly and equally the indications are validated scientifically on the basis of the chemical constituents present in them.

Controversy about medicinal plants started due to various reasons like the unspecific botanical source, geographical distribution, trade cum business, transport affairs, and unavailability of specific medicinal plants.

The controversial identity of medicinal plants fosters adulteration and substitution of raw drugs used in medicines which ultimately affects the efficacy.

Especially on the basis of the commentator's views and the scientific evidence available, here an approach has been made to establish a genuine identity for each controversial plant. This would check adulteration and substitution of drugs.

Controversial medicinal plants found in Salsaradi-gana are 8 which are Kramuka, Meshshringa, Chandana, Kuchandana, Naktamala, Pootika, Aguru, and Kaleeyaka. Kaleeyaka should be taken as Pita Chandana and further evolution for its botanical source should be done.

Further experimental and clinical studies on plants of *Salsaradi-gana* should be done for their evidence-based genuine identity and their detailed mode of pharmacological and clinical action on diseases like *Kustha, Prameha, Pandu, and Kaphamedo-vishoshan*.

CONCLUSION

Only genuine drugs can impart expected and indicated clinical effectiveness. The controversial identity of medicinal plants fosters adulteration and substitution of raw drugs in the drug manufacturing process which ultimately affects the drug's overall clinical efficacy. Clinically important groups of medicinal plants *Salsaradi-gana* contain 8 plants with controversial identities. Their controversial identity is unloaded on the basis of available classical and scientific evidence.

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