ISSN 2456-3110 Vol 7 · Issue 8 September 2022



# Journal of Ayurveda and Integrated Medical Sciences

www.jaims.in

Indexed

An International Journal for Researches in Ayurveda and Allied Sciences





**REVIEW ARTICLE** September 2022

# Composition of Kanakasava and its medicinal properties

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# ABSTRACT

Kanakasava is an Ayurvedic polyherbal formulation which comes under Sandhana Kalpana. It is explained in the context of Hikkaswasa Rogadhikara in Bhaishajya Ratnavali. Datura (Datura metel Linn.), Vasa (Justicia adhathoda L.), Yashtimadhu (Glycyrrhiza glabra L.), Pippali (Piper longum L.), Kantakari (Solanum virginianum L.), Nagakesara (Mesua ferrea L.), Shunti (Zingiber officinalis Rosc.), Bharangi (Rotheca serrata L.), and Talisapatra (Abies spectabilis D.don) are the ingredients of Kanakasava. Dhataki Pushpa (Woodfordia fruiticosa Kurz) is used as the Sandhana Dravya and Draksha as Kwatha Dravya. This formulation is mainly indicated in Kasa, Swasa, Rajayakshma, Kshataksheena, Jirna Jwara, Raktapitta and Urakshata. The present review highlights on the method of preparation, Properties of each ingredient in the preparation and its mode of action.

Key words: Kanakasava, Polyherbal formulation, Pranavaha Srotovikaras

#### **INTRODUCTION**

Kalpana or the formulations are performed to potentiate properties of Drava's.<sup>[1]</sup> Asava is the preparation which comes under Sandhana Kalpana and specifically under Madhya Kalpana, which is popular since Vedic as well as Samhita period. It is more popular and appreciated because of their palatability, quick action and high preserving qualities. Moreover it helps to increase the digestive capacity along with their specific action on different diseases.<sup>[2]</sup>

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Submission Date: 14/07/2022 Accepted Date: 19/08/2022

Access this article online		
Quick Response Code		
	Website: www.jaims.in	
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Basically, Sandhana Kalpana is a biochemical process of fermentation in a mildly self-generated alcohol medium in order to extract the active constituent of the drug.

Kanakasava is one of the polyherbal formulation that consists of Datura (Datura metel Linn.), Vasa (Justicia adhathoda L.), Yashtimadhu (Glycyrrhiza glabra L.), Pippali (Piper longum L.), Kantakari (Solanum virginianum L.), Nagakesara (Mesua ferrea L.), Shunti (Zingiber officinalis Rosc.), Bharangi (Rotheca serrata L.), and Talisapatra (Abies spectabilis D.don). It has been widely used in the treatment of Swasa, Kasa, Rajayakshma, Kshataksheena, Jirna jwara, Raktapitta and Urakshata.<sup>[3]</sup> This article describes about brief introduction of Asava, Composition of Kanakasava, Method of preparation, Properties of each ingredient in the preparation and its mode of action.

#### Etymology and definitions of Asava

#### Etymology

The root word Asava means "Asuya Nishpadyate" suggestive of a process that introduces separated or

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isolated source materials, indicates fermentation process.<sup>[4]</sup>

#### Definitions

#### Table 1: Definition of Asava by various Acharya's

Charaka	<i>Asava</i> is those formulations which are prepared by " <i>Asuta Prakriya</i> "- Fermented products. <sup>[5]</sup>
Susruta	<i>Asava</i> is one type of <i>Madya</i> which includes different medicines like <i>Guda, Dhataki</i> . <sup>[6]</sup>
Sharangdhara	<i>Asava</i> is <i>Madya</i> which is prepared by " <i>Apakwaaushadha</i> " i.e., without application of heat. <sup>[7]</sup>
Bhaishajya- Ratnavali	<i>Madya</i> containing medicine or medicinal properties is known as <i>Asava</i> . <sup>[8]</sup>
Dalhana	Asava is Dravapradhana. <sup>[9]</sup>

#### General Properties of Asava<sup>[2]</sup>

#### According to Caraka

Asava provides Manobala, Sareera Bala, Agnibala and relieves Aswapna, Shoka and Aruchi.

#### According to Bhavamishra

The properties of *Asava* are to be understood as same as *Bijadravya* or the *Dravya* used for the preparation of particular *Asava*.

#### Composition of Kanakasava

The reference of *Kanakasava* is from compendium *Bhaishajya Ratnavali, Hikkaswasadhikara*; 98-101

#### Table 2: Composition of Kanakasava

SN	Common name	Botanical name	Part used	Qty(g)
1.	Datura	Datura metel Linn.	Whole plant	4 Pala (192g)
2.	Vasaka	Justicia adhathoda L.	Roots	4 <i>Pala</i> (192g)
3.	Yashtimadhu	Glycyrrhiza glabra L.	Roots	2 Pala (96g)

4.	Pippali phala	Piper longum L.	Fruits	2 Pala (96g)
5.	Kantakari	Solanum virginianum L.	Whole plant	2 Pala (96g)
6.	Nagakesara	Mesua ferrea L.	Stamens	2 Pala (96g)
7.	Shunthi	Zingiber officinalis Rosc.	Rhizome	2 Pala (96g)
8.	Bharangi	Rotheca serrata (L.)	Roots	2 Pala (96g)
9.	Talisapatra	Abies spectabilis (D.don)	Leaves	2 Pala (96g)
10.	Dhataki	Woodfordia fruticosa Kurz	Flowers	1 Prastha (768g)
11.	Draksha	<i>Vitis vinifera</i> Linn.	Dry fruits	20 Pala (960g)
12.	Water	Distilled water	-	2 Drona (24.576 I)
13.	Sarkara	-	-	1 <i>Tula</i> (4.800kg
14.	Madhu	-	-	½ <i>Tula</i> (2.400kg

#### Method of Preparation<sup>[10]</sup>

- 1. *Prakshepa Dravyas* and *Sandhana Dravya* are kept ready.
- Kwatha Dravya Draksha: 20 Pala (960g), Water for decoction 2 Drona (25 ltrs) reduced to 6.2 liters.
- 3. *Sarkara* is added into the filtered *Kashaya* and after the decoction cools down mentioned quantity of *Madhu* is added and stirred.
- Sandhana Patra is selected and Dhupana is carried out using Dhupana Dravya's and kept in appropriate place (husk or dark room).
- 5. The *Sarkara* and *Madhu* dissolved decoction is poured into the *Sandhana Patra*.

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6.	The coarse powder of the ingredients along with	Pharmacological action <sup>[16]</sup>
7.	Sandhana Dravya (Dhataki Pushpa) is added. The mixture is cautiously stirred and the vessel is	Anti-asthmatic, Anti-spasmodic, Anti-tussive, Bronchodilator
	kept undisturbed by temporarily closing its mouth	2. Vasa <sup>[17]</sup>
8.	with a cloth and a lid. The onset of fermentation is observed daily for 3 to 5 days.	Botanical name - Justicia adhatoda L. Family - Acanthaceae
9.	Soon after fermentation, the <i>Sandhibandhana</i> of the vessel is done.	Rasa Panchaka Rasa - Tikta, Kashaya
10.	The vessel is kept undisturbed for 25 to 30 days.	Guna - Ruksha, Laghu,
11.	After the confirmation of the fermentation,	Veerya - Sheeta
	through all the classical guidelines, the preparation is siphoned out.	Vipaka - Katu
12.	The end product will be dark reddish liquid with	Doshagnata
	sweet and sharp taste and odor of self-generated	Kapha Pitta Shamaka
Dos	alcohol. se and Therapeutic Indications <sup>[10]</sup>	<mark>Karma:</mark> Swasahara, Kasahara, Swarya, Hridya, Rakthapittahara, Jwaraghna
Dos	se: 12 to 24 ml (AFI)	Pharmacological action <sup>[18]</sup>
	doses of 10-20ml, mixed with equal quantity of ter (Bhaishajya Ratnavali)	Bronchodilator, Expectorant, Anti-tussive, Anti- asthmatic, Anti-tubercular.
	erapeutic indications: Kasa, Swasa, Rajayakshma, ataksheena, Jirna Jwara, Raktapitta and Urakshata.	3. Yashtimadhu <sup>[19]</sup>
Pro	perties of ingredients in Kanakasava	Botanical name - Glycyrrhiza glabra Linn.
1. <i>L</i>	Datura <sup>[11,12]</sup>	Family - Papilionaceae
Bot	anical name - Datura metel L.	Rasa Panchaka
Fan	nily - Solanaceae	Rasa - Madhura
Ras	a Panchaka <sup>[13,14]</sup>	Guna - Guru, snigdha
Ras	a - Tikta, Katu	Veerya - Sheeta
Gui	na - Laghu, Ruksha, Vyavayi, Vikasi	Vipaka - Madhura
Vee	erya - Ushna	Doshagnata
-	aka - Katu	Vata Pitta Shamaka
Pra	bhava - Madaka	Karma: Balya, Swarya, Kasahara, Swasahara
	shagnata	
	pha Vatahara, Pittavardhaka	Pharmacological action <sup>[20]</sup>
Ма	r <b>ma<sup>[15]</sup></b> dakari, Swasahara, Kasahara, Vishamajvaragna, Iahara, Agni Vrudhikara	Expectorant, Immunomodulatory, Anti-asthmatic, Anti-allergic, Anti-spasmodic, Anti-inflammatory, Anti- tussive.

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4. Pippali <sup>[21]</sup>	Rasa Panchaka
Botanical name - Piper longum Linn	Rasa - kashaya, Tiktha
Family - Piperaceae	Guna - Ruksha, Laghu
Rasa Panchaka	Veerya - Ushna
Rasa - Katu	Vipaka - Katu
Guna - Tikshna, Laghu, Snigdha	Doshagnata
Veerya - Anushna	Kapha Pitta Shamaka
Vipaka - Madhura	Karma: Pachana, Jwaragna, Vishagna
Doshagnata	Pharmacological action <sup>[26]</sup>
Kapha Vata Shamaka	Immunomodulatory, Anti-histamine, Anti-oxidant, Anti-inflammatory.
<mark>Karma:</mark> Dipana, Rasayana, Vrshya, Swasahara, Kasahara, Jwarahara.	<b>7. Shunti</b> <sup>[27]</sup>
Pharmacological action <sup>[22]</sup>	Botanical name - Zingiber officinalis Rosc.
Immunomodulatory, Anti-asthmatic, Anti-allergic,	Family - Zingiberaceae
Anti-histamine	Rasa Panchaka
5. Kantakari <sup>[23]</sup>	Rasa - Katu
<b>Botanical name</b> - <i>Solanum virginianum</i> L. ( <i>Solanum xanthocarpum</i> Schrad.)	Guna - Laghu, Snigdha
Family - Solanaceae	Veerya - Ushna
Rasa Panchaka	Vipaka - Madhura
Rasa - Tikta katu	Doshagna - Vata Kapha Hara
Guna - Laghu ruksha	<mark>Karma:</mark> Dipana, Kasahara, Swasahara, Hridya, Swarya, Sulahara, Vrishya.
Vipaka - Katu	Pharmacological action <sup>[28]</sup>
Virya - Ushna	Immunomodulatory action, Anti-tussive activity,
Doshagnata	8. Bharangi <sup>[29]</sup>
Kapha Vata Shamaka	Botanical name - Rotheca serrata (L.)
Karma: Kanthya, Kasahara, Swasahara, Jwaraghna,	Family - Lamiaceae
Dipana, Pachana, Hridya.	Rasa Panchaka
Pharmacological action <sup>[24]</sup>	Rasa - Katu, Tiktha, Kashaya
Expectorant, Demulcent, Immunomodulatory, Anti- asthmatic, Anti-allergic, Anti-histamine, Anti-tussive.	Guna - Ruksha, Laghu
6. Nagakesara <sup>[25]</sup>	Guna - Kuksha, Lagna Veerya - Ushna
Botanical name - Mesua ferrea L.	Vipaka - Katu
Family - Calophyllaceae	νιμακα - κατα

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Doshagnata	Pharmacological action <sup>[34]</sup>		
Kapha Vata Samaka	Anti-inflammatory, Bronchodilator, Anti-asthmatic		
Karma: Swasahara, Kasahara, Pachana, Dipana,	11. Dhataki <sup>[35]</sup>		
Jwaraghna.	Botanical name - Woodfordia fruticosa (L.) Kurz		
Pharmacological action <sup>[30]</sup>	Family - Lythraceae		
Immunomodulatory, Anti-asthmatic activity, Anti-	Rasa Panchaka		
histaminic activity, Bronchodilator.	Rasa - Kashaya, Katu		
9. <i>Talisapatra</i> <sup>[31]</sup>			
Botanical name - Abies spectabilis (D.don)	Guna - Laghu, Ruksha		
Family - Pinaceae	Veerya - Sheeta		
Rasa Panchaka	Vipaka - Katu		
Rasa - Katu, Tiktha, Madhura	Prabhava - Madakari		
Guna - Snigdha, Guru	Doshagnata		
Veerya - Ushna	Kaphapittahara		
Vipaka - Madhura	<b>Karma:</b> Madakrut, Trishnahara, Rakthapittahara, Stambhaka, Vishagna, Krimighna, Sandhaniya		
Doshagnata Tridosha Shamaka	Pharmacological action <sup>[36]</sup>		
Karma: Swasahara, Kasahara, Ruchikara, Dipana,	Anti-asthmatic, Anti-inflammatory, Broncho-		
Hikkanigrahana	protection, Immunomodulatory activity		
Pharmacological action <sup>[32]</sup>	Research works on Kanakasava		
Expectorant, Anti-spasmodic, Bronchodilator, Anti-	1. Investigation of anti-asthmatic potential of		
tussive, Anti-platelet	Kanakasava in ovalbumin-induced bronchial		
<b>10.</b> <i>Draksha</i> <sup>[33]</sup>	asthma and airway inflammation in rats. (Poonam Arora et.al)		
Botanical name - Vitis vinifera L.	2. Preliminary study of the immunostimulating		
Family - Vitaceae	activity of an Ayurvedic preparation, Kanakasava,		
Rasa Panchaka	on the splenic cells of BALB/c mice in vitro. (Md.		
Rasa - Madhura	Moklesur Rahman Sarker <i>et al.)</i>		
Guna - Snigdha, guru	Research works on composition of <i>Kanakasava</i>		
Veerya - Sheeta	<ol> <li>Datura - Datura metel Linn ameliorates Asthma symptoms in BALB/c mice (Muhaimin Rifa et al.)</li> </ol>		
Vipaka - Madhura	2. Vasa - A clinical review of different formulations of		
Doshagnata	Vasa (Adhatoda vasica) on Tamaka Shwasa;		
Vatapittahara	Asthma (Ankit Gupta et al.)		
<b>Karma:</b> Brmhana, Vrishya, Swarya, Kandya, Balya, Pushti, Kshayahara, Kasahara, Swasahara, Kshatahara, Rakthapittahara	<ol> <li>Yashtimadhu - In vitro and in vivo antiallergic effects of Glycyrrhiza glabra and its components. (Yong-Wook Shin et al.)</li> </ol>		

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- 4. *Pippali* In vivo and in vitro Anti-asthmatic studies of Plant *Piper longum* Linn. (Dhirender Kaushik et al.)
- Kantakari In vivo antitussive activity of a pectic arabinogalactan isolated from Solanum virginianum L. in Guinea pigs. (Washim Raja et al.)
- Nagakesara Mesua ferrea L.: A review of the medical evidence for its phytochemistry and pharmacological actions. (Manoj Kumar Chahar et al.)
- Shunti Structural elements and cough suppressing activity of polysaccharides from Zingiber officinale L. rhizome (K Bera et al.)
- Bharangi Anti-histaminic, mast cell stabilizing and bronchodilator effect of hydroalcoholic extract of polyherbal compound- Bharangyadi (Divya Kajaria et al.)
- Talisapatra Pharmacological Studies on the Antispasmodic, Bronchodilator and Anti-Platelet Activities of Abies webbiana (Mamoona Yasin et al.)
- Draksha Investigation of anti-asthmatic potential of dried fruits of Vitis vinifera L. in animal model of bronchial asthma (Poonam Arora et al.)
- Dhataki Pharmacological evaluation for antiasthmatic and anti-inflammatory potential of Woodfordia fruticosa Kurz. Flower extracts. (Mahavir Hiralal Ghante et al.)

#### **DISCUSSION AND CONCLUSION**

Kanakasava is a polyherbal Ayurvedic preparation mainly used for the treatment of respiratory tract diseases, such as Swasa, Kasa etc. According to Ayurveda, Kanakasava helps to balance Kapha and remove excess mucus from the lungs, providing relief from the symptoms of Swasa and Kasa. It also helps to remove dryness and release sputum out of respiratory tract due to its Vata and Kapha balancing properties. Kanakasava is also helpful in reducing the Jwara due to its Dipana and Pachana properties, which aid in digestion and absorption of food. The mode of action of each ingredient in the preparation is enlisted below:



Datura metel L.

Difficulty in breathing or shortness in breath is due to Vata and Kapha Doshas. Datura due to its Ushna Virya does Vata-Kapha Hara action removes obstruction and relieves bronchial spasm.



Justicia adhathoda L.

It expectorates phlegm and dialates bronchi; stops breathlessness in *Swasa*. Useful in *Kasa* and stops bleeding with the sputum. Pacifies *Tikshna* and *Ushna Gunas* of *Pitta* and purifies *Raktha* by its *Tiktha Kashaya Rasas* and *Sheetha Virya*. Useful in *Kshaya* as it eliminates the *Kapha* and improves the formation of *Dhatus* by causing *Deepana* of *Dhatvagnis*.



Glycyrrhiza glabra L.

Being *Snigdha* and *Madhura* it acts as expectorant and gives strength to the laryngopharynx (In *vatanubandha Kasa, Swasa* and *Swarabheda*). In

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Rajayakshma it promotes Balya to the Pranavaha Srotas and acts as expectorant. It pacifies Raktha Pitta due to its Madhura Rasa and Sheeta Virya.



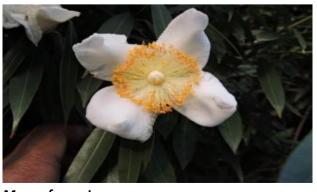
#### Piper longum L.

The Katu rasa and Madhura Vipaka of Pippali Phala helps in the Vata and Kapha Shamaka action in Kasa and Shwasa. Tikshna Guna of pippali causes Bhedana of Kapha which is stucked into the Srotas.



Solanum virginianum L.

The Katu Rasa and Ushna Virya of Kantakari acts as Kanthya by liquifying the Kapha. It also removes obstructions of Kapha in the Pranavaha Srotas and thereby acts as Kasahara and Swasahara.



Mesua ferrea L.

Nagakesara acts as Raktha Sthambaka due to its Kashaya rasa, hence indicated in Raktha Pitta.



Zingiber officinale L.

Being Katu, Ushna and Laghu, Shunti acts as Kaphagna. Vataghna being Snigdha and Madhura Vipaki.



Rotheca serrata (L.)

*Bharangi* liquifies *Kapha* accumulated in the chest and thereby carries out *Anulomana* of *Prana*, thus indicated in *Shwasa*, *Kasa* and *Rajayakshma*.



Abies spectabilis (D.don)

Being Kaphaghna and Swasahara, Talisapatra is indicated in Kasa, Shwasa, Swarabheda and Rajayakshma. Due to its Dhatvagni Deepana property it is indicated in Kshaya and Samanya Dourbalya.

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Vitis vinifera L.

Draksha is Balya to the lungs and acts as expectorant, Thus indicated in diseases like Urakshata, Kshaya, Kasa, Swasa, Swara Bheda.



Woodfordia fruticosa Kurz.

Dhataki contain substantially high concentration of tannins. These polyphenolic compounds are susceptible to enzymatic conversion to simple phenols and alcohol during anaerobic fermentation of Asavarishta preparations. The endogenous invertase fructofuranosidase in Dhataki pushpa helps sucrose hydrolysis to alcohol.

On the basis of the actions of drug in the formulation it can be suggested that *Kanakasava* has the potential to cure the diseases of *Pranavahasrotas* as well as in *Rakthapitta* and *Vishama Jvara*. Moreover, we can conclude that the preparation will be useful in regulating the immune responses too.

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**How to cite this article:** Abhilash SV, Subrahmanya P. Composition of Kanakasava and its medicinal properties. J Ayurveda Integr Med Sci 2022;8:72-80.

Source of Support: Nil, Conflict of Interest: None declared.

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