

KASA: A CRITICAL REVIEW IN AYURVEDA WITH SPECIAL REFERENCE TO PATHYA-APATHYA

Jigyasa Pathak*¹, Vd.B.R.Patel², Aswathi Mohan¹ and Dr. Kalpesh Panara³

¹Ph.D. Scholar, ²Associate Professor, ³Assistant Professor,

Department of Dravyaguna, IPGT & RA, Gujarat Ayurved University, Jamnagar, Gujarat,
India- 361008.

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*Corresponding Author

Jigyasa Pathak

Ph.D. Scholar, Department
of Dravyaguna, IPGT and
RA, Gujarat Ayurved
University, Jamnagar,
Gujarat, India- 361008.

ABSTRACT

Introduction: *Kasa* is one of the pathological conditions explained in many contexts in Ayurveda texts. *Kasa* may develop as an independent disease, a *lakshana* associative to other disease or as *Upadrava* of a disease. Understanding and differentiating the *Kasa* is most important to treat the condition effectively. **Aim:** The aim of the present study is to compile different *Dravya* used as *pathya* in *Kasa* roga. Drugs that can be used as simple remedies in *kasa*(cough) and also various diets and regimens having *pathya* (wholesome) and *apathya* (unwholesome) effect indicated for *Kasa* roga have been reviewed. **Material and methods:** Various diets and regimens having *pathya* (wholesome) and *apathy* (unwholesome) effect indicated for *Kasa* roga was compiled

from different *Samhita Grantha* and *Chikitsa Granth* available in the library of I.P.G.T&R.A, Jamnagar. Latest research articles were referred from the internet. **Results and Discussion:** The diet and drugs compiled in *Kasa* mostly had *madhura rasa* followed by *tikta* and *katu rasa*. Most of the drugs have *Bhedan*, *chedan*, *lekhana* *Brinhana*, *Balya*, *Rasayana* properties and mostly belonged to family *Poaceae*. The drugs were reported to have anti- histaminic and anti- tussive activity. The *Dravya* used as *Pathya* in *Kasa* should have *laghu*, *Snigdha* and *ushna guna*. **Conclusion:** Clinical and experimental study of the plant is indispensable to evaluate its efficacy in the management of *Kasa*.

KEYWORDS: *Ayurveda*, Cough, *Kasa*, *Pathya- apathy*.

INTRODUCTION

Kasa is one of the pathological conditions explained in Ayurveda texts. As rightly explained by *Acarya Caraka*^[1] the main vitiating factors in the disease *Kasa* are *Kapha* and *vata*. The increased *Kapha* forms a sort of *Upalepa* in *Pranavaha Srotas* obstructing the normal pathway of *vayu*, leading to its vitiation. *Kasa* may develop as an independent disease, may be a *Lakshana* associative to other disease, sometimes may develop as *Upadrava* of a disease. Early intervention is necessary in case of *Kasa* since untreated *Kasa* leads to complications like- *Shwasa*, *Kshaya*, *Chardi*, *Swarasada* etc. Therefore it should be treated in early stage.^[3] Understanding and differentiating the *Kasa* is most important to treat the condition effectively. Ayurveda explains different approaches to treat the different kinds of *Kasa*.

सदा पथ्यं प्रयोक्तव्यं नापथ्येन स सिध्यति I

औषधेन विना पथ्येः सिध्यते भिषगुत्तमैः II

विना पथ्यम न साध्यः स्यादौषधानां शतैरपि I

हा.तृतीयस्थान १/६५

As rightly pointed out, *Pathya* (wholesome) diet should strictly be followed at all times. A disease can never be cured just by means of right medicine without following the right *Pathya* and *Apathya* in terms of diet and regimen.^[6] Hence this work aims to analyse the role of *Pathya* and *Apathya* with respect to *Kasa roga*. The work compiles different *Dravya* used as *pathya* in *Kasa roga*. Review of different *Dravya* has been carried out that can be used as both *aahara* and *aushadha* in *Kasa*(cough) on the basis of properties and actions. Also various diets and regimens having *pathya* (wholesome) and *apathya* (unwholesome) effect indicated for *Kasa roga* have been described.

MATERIAL AND METHODS

Various diets and regimens having *pathya* (wholesome) and *apathya* (unwholesome) effect indicated for *Kasa roga* was compiled from different *Samhita Grantha* and *Chikitsa Granth* available in the library of I.P.G.T&R.A, Jamnagar. Latest research articles were referred from the internet.

RESULTS

Pathya In Kasa As Described In The Classical Texts

	Aushadha	Aahara	Therapy
	1. Dadima churna (2 pala) Guda(8 pala) Trikatu (3 pala) Trisugandhi (1 pala). ^[10] 2. (Kasa with Jwara) ksheer and ghrita siddha yava churna with sharkara and madhu. ^[10] 3. Kantakari, Kasamarda, Jeevanti, Draksha, Bimbi, Matulunga, Pushkar, Vasa, Sukshma ela. ^{[14][16]}	Kulatha rasa Dhanvan mansa Vartaka Gomutra Lashuna, haritaki, trikatu ^{[14][16]} Ushnodaka, Madhu, laja, laghu anna ^[16] Amlaki churna with ksheer and ghrita ^[2]	
VATA		1. Vastuka, vayasi shaka, moolaka, sunishaka, Sneha, Taila, ikshurasa, guda, dadhi, arnala, amla phala, prasanna, madhura, amla, lavana. 2. Gramya anupa, udaka mansa. 3. Shali, yava, Godhuma, Shashtika. 4. Masha, atmagupta yusha. ^{[1][4][5][9][11][14][17]} 5. Jangala rasa, shayamaka, yava, kodrava. Mudgadi yusha. ^{[1][2][4][5][9][14][16]}	Diwas nidra. ^[16]
PITTA	1. Draksha, madhuka, amlaka, kharjura, pippali, maricha with ghrita and madhu. ^{[8][9][10][13][14]} 2. Padmabeeja churna with madhu. ^{[9][10]} 3. Shataprastha Ghrita: Mahisha – aja- avi- Go ksheera(each 1 prastha), ghrita(1 prastha), amlaka yusha (1 prastha). ^[11]		Virechana. ^[16]
KAPHA	1. Shunthi swarasa with madhu. ^{[8][9][10]} 2. Navanga Yusha: Mudga, amlaka, yava, Dadima, Karkandhu (ber), shushka moolaka, Pippali, kulattha. ^{[8][9][10][11][13]}	1. Sura, purana sarpi, chaag paya ghrita. ^{[14][16]} 2. Ushnodaka, Madhu, Laja, Laghu anna. ^{[14][16]}	Swedana. ^[16]

Rasa Pancaka of Individual Drugs^[17]

1	Amla phala		Amla	Amla		Ushna	PR kar
2	Amlaka	Emblica officinalis Euphorbiaceae	Amla rasa pradhan 5 rasa (alavana)	Madhura	Laghu, ruksha, sheeta	Sheeta	T har
3	Anupa mansa		Madhura rasa		Snigdha guru, Pichchila, abhishyandi, Mansa pushti prada		shleshma kar
4	Arnala						

5	Atmagupta	Mucuna pruriens Papilionaceae	Madhura tikta	Madhura	Guru, sara, snigdha.	Ushna	K kar, V shamaka.
6	Bimbi	Coccinia indica Cucurbitaceae	Madhura	Madhura	Guru	Sheeta	PRV har
7	Dadhi		Madhura, madhura-amla, amla	Amla	Guru, snigdha	Ushna	KP kar
8	Dadima	Punica granatum Punicaceae	Madhura Madhura amla Amla	Madhura, Amla	Laghu, snigdha, Grahi,	Ushna	T har
9	Dalchini	Cinnamomum zeylanicum	Tikta rasa			Ushna	VP har
10	Draksha	Vitis vinifera Vitaceae	Madhura	Madhura	Guru snigdha	Sheeta	
11	Ela	Elettaria cardomum Scitaminaceae	Katu rasa		Laghu	Sheeta	V har
12	Godhuma	Triticum sativum Graminae	Madhura Sheeta		Guru		VP har
13	Gomutra		Katu, tikta, kasaya kshaar,		Teekshna, laghu	ushna	KV nashak, P kar
14	Gramya mansa		Madhura				KP kar V har
15	Guda		Madhura		Guru, snigdha		V har
16	Haritaki	Terminelia chebula Combretaceae	Kasaya rasa pradhan	Madhura	Laghu ruksha	Ushna	T har
17	Ikshurasa	Saccharum officinarum Graminae	Madhura	Madhura	Guru snigdha	Sheeta	VP har
18	Jangala mansa rasa		Madhura, kasaya		Laghu ruksha balkarak		
19	Jeevanti						
20	Kantakari	Solanum xanthocarpum Solanaceae	Katu	Katu	Laghu, ruksha	Ushna	KV har
21	Karkandhu (ber)	Zizyphus jujube Rhamnaceae	Amla, tikta kasaya kinchita madhura		Snigdha, Guru		VP har
22	Kasmarda	Cassia occidentalis Caesalpiniaceae	Madhura, tikta	Madhura	Laghu, graahi	Anushna -sheeta	KV har
23	Kharjura	Phoenix sylvestris Palmaceae / Arecacea	Madhura	Madhura	Guru snigdha	Sheeta	
24	Kodrava	Paspalum scrobiculatum Gramineae			Vatakar, grahi	Hima	PK har
25	Kulattha	Dolichos biflorus	Kasaya rasa	Katu	Laghu, sara	Vidahi	PR kar

		Papilionaceae					
26	Lashuna	Allium sativum Liliaceae	Katu rasa pradhan	Katu	Snigdha, guru	Ushna	PR kar
27	Madhu		Madhura, kasaya		Laghu, graahi	Sheeta	V kar KP har
28	Madhuka	Glycyrhizza glabra Leguminosae	Madhura	Madhura	Guru snigdha	Sheeta	
29	Maricha	Piper nigrum Piperaceae	Katu	Katu	Laghu, ruksha	Ushna	
30	Masha	Phaseolus mungo Fabaceae	Madhura	Madhura	Guru, snigdha		V har, KP kar
31	Matulunga		Madhura, Amla	Amla			
32	Moolaka	Raphanus sativus Brassicaceae	Choti- katu rasa Badi -		Choti-laghu Badi -guru		T har T kar
33	Mudga	Phaseolous radiates Fabaceae	See from other book			Hima	KP nashak Kinchita V kar
34	Padmabeeja churna	Euryale ferox Nymphaeaceae	Kasaya, tikta		Guru, ruksha	Sheetal	KV kar P har
35	Pippali	Piper longum Piperaceae	Katu	Madhura			VK har
36	Prasanna						
37	Pushkar	Inula racemosa Compositae	Katu, tikta				VK har
38	Shali		Madhura		Laghu,snigdha	Sheeta	P har, alpa VK kar
39	Shashtika	Oryza sativa Poaceae	Madhura	Madhura	Brihana, K kar	Sheeta	VP shamak
40	Shataprastha Ghrita		Madhura	Madhura	Guru	Sheeta	VP shamak
41	Shunthi		Katu rasa	Madhur	Laghu, snigdha	Ushna	
42	Shyamak	Echinochloa frumentaceae Gramineae			Ruksha, vata kar		KP har
43	Sneha padartha						
44	Sukshma ela		Katu madhura	Katu	Laghu ruksha	Sheeta	
45	Sunishaka	Marsilea minuta Linn. Marsiliaceae	Madhura, kasaya rasa		Laghu, ruksha	Sheeta Kinchita vidahi	
46	twak 214	Cinnamomum cassia Lauraceae	Katu, tikta		Laghu ruksha	Ushna	KV har, P kar
47	Ushnodaka						
48	Vasa	Adhatoda vasica Acanthaceae	Tikta kasaya	katu	Laghu ruksha	Sheeta	
49	Vastuka	Chenopodium album Chenopodiaceae	(Kshaar) (Swaadu)	Katu	Laghu, Sara		T har

50	Vayasi shaka	Solanum nigrum Solanaceae	Tikta, Katu	Katu	Snigdha	Ushna	T har
51	Yava	Hordeum vulgare Graminae	Kasaya, madhura	Katu	Laghu, ruksha	Sheeta	K har

Apathya in kasa as described in the classical texts.

Aushadha/Aahara ^{[12][13][14][16]}	Vihara/Therapy ^{[12][13][14][16]}
Vistambhi, vidahi, ruksha anna. Matsya Kanda Sarshapa Tumbi phala Upodika Dushta ambu Viruddha anna Guru sheeta anna Payo Dadhi Pishtanna Paayas Guda kept for more than 4 years ^[15]	Basti Nasya Raktamokshana Vyayama Dantagharshan Atap dushta pavan rajo marga sevan Shakrita mootra udagaar kasa vami vegadharan Maithuna Diwaswap

Rasa Panchak of Individual Drug^[17]

Sr.no		Rasa	Guna	Virya	Vipaka	Dosahghnta
1.	Matsya	Madhura	Snigdha, guru	Ushna	Madhura	KP har
2.	Kanda	Kasaya	Ruksha, vistambhi, vishada, laghu		Katu	
3.	Sarshapa	Katu,tikta	Katu	Ushna	Snigdha, tikshna, ushna	RP har
4.	Tumbiphala	Tikta	Katu	Sheeta		VP har

DISCUSSION

As rightly pointed out by Hemadri in *Ayurveda Rasayan teeka on Astanga Hridaya*, Vata is the main culprit in *Kasa roga*. पंचानां कासानां वायुरेव समवायिकारणम^[18], the other *dosas* only acting as *nimitta karan* (associative factor) Hence it is obvious that *Vatashamak* and *vatanulomak dravya* are the first line of treatment of *Kasa*.

The *nidana* (causative factors) in such *Kasa* vitiate *vata* by *ruksha, ushna guna*. This not only aggravates *vata* and but also suppresses *Kapha* dosa further causing *shuska kasa*. Hence the *pathya dravyas* in such types of *Kasa* should be *madhura, amla rasa* and *ushna virya* causing

suppression of *vata dosa*. Also drugs were found to possess *deepan*, *pacana* and *rasayan karma*.

Even in *Kaphaja kasa*, the *kapha* is found to be *leena* and *stabdha* due to *vata* hence the *dravya* administered should have *kapha shaman* property but not *vata prakopak*. The drugs were found to have *deepan*, *pacan* and *chedan karma*.

The *apathya dravya* indicated are either *ruksha*, *laghu* in *guna* or *vistambhi*, *abhishyandi*, *guru* and *durjara* thus eventually causing *vata prakopa*.

CONCLUSION

Hence a person suffering from *kasa* should take any *aahara* which is *laghu*, *snigha*, *ushna* and *supachya*. Further clinical and experimental study of the plant is indispensable to evaluate its efficacy in the management of *Kasa roga*.

Research work on the *Dravya* used as *Pathya apathya* in *Kasa roga*.

Sr.no	Dravya	Activity	Reference
1.	Amalaki	Antitussive activity	[19]
2.		Rasayana	[20]
3.	Bimbi	Expectorant, anti inflammatory	[21]
4.	Vastuka	Anti inflammatory, anti oxidant	[22]
5.	Kakamachi	Anti inflammatory, anti oxidant	[23]
6.	Dadima	Anti oxidant	[24]
7.	Shali	Anti inflammatory	[25]
8.	Mudga	Anti inflammatory, anti oxidant	[26]
9.	Sunishnaka	Anti tussive, expectorant	[27]
10.	Kharjura	Anti inflammatory	[28]
11.	Dalchini	Anti inflammatory, anti oxidant	[29]
12.	Ela	Anti inflammatory, anti oxidant, anti oxidant	[30]
13.	Godhuma	Anti inflammatory, anti oxidant	[31]
14.	Gomutra	Immunomodulatory, bacteriostatic action	[32]
15.	Karkandhu	Anti inflammatory, anti oxidant, immunostimulant	[33]
16.	Kulatha	Anti inflammatory, anti oxidant	[34]
17.	Yashtimadhu	Anti inflammatory, anti oxidant, immunostimulant.	[35]

APATHYA

Fish meat	A diet rich in meats, sodium, and refined carbohydrates may increase risk of developing cough with phlegm, independently of the apparent beneficial effects of a diet high in fiber in this Singapore Chinese cohort.	[36]
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REFERENCES

1. Charaka. *Charaka Samhita*. Pt. Rajeswara Datta Shastri, Editor. *Chikitsasthana* 18/6, Chaukhambha Bharati Academy, Varanasi, Reprinted, 2011; 532.
2. Sushruta. *Sushruta Samhita*, Kaviraj Ambika Dutta Shashtri, Editor, Chaukhambha Sanskrit Sansthan, Varanasi, Reprint, 2012; II. Uttartantra 52.
3. Vagbhata. *Astanga Sangraha*. Atrideva Gupta, Editor, Chaukhambha Krishnadas Academy, Varanasi, Printed, 2005; Nidanasthana 3/43.
4. Vagbhata. *Astanga Sangraha*. Atrideva Gupta, Editor, Chaukhambha Krishnadas Academy, Varanasi, Printed, 2005; Chikitsasthan 4.
5. Vagbhata. *Astanga Hridaya*. Atrideva Gupta. Editor, Chaukhambha Prakashan, Varanasi, Reprint, 2012; Chikitsasthan 3.
6. Harita. *Harita Samhita*. Harihara Prasad Tripathi, Editor, Chaukhambha Krishnadas Academy, Varanasi, 2009; Tritiya sthan 1/65: 173.
7. *Bhavaprakasha Samhita*, Bhramhashanankar Mishra Shashrina, 11 Editor. Chaukhambha Sanskrit Bhawan, Varanasi, 2013; chikitsa prakrana, 12/20.
8. Tiwari P. Editor, *Vrindhamadhava*, Chaukhambha Vishwabharti, Varanasi, 2007. Kasadhikaar, 11.
9. Indradeva Tripathi, Editor. *Chakradatta*, Chaukhambha Sanskrit Bhawan, Varanasi, 2014. Kasa chikitsa prakrana.
10. Shodhala. *Gadanigraha*, Indradeva Tripathi, Editor. Chaukhambha Sanskrit Sanstana, Varanasi, 2012; Kasadhikaar II: 10.
11. Vangasena. *Vangasena*, Pt. Harihara Prashada Tripathi, Editor, Chaukhambha KrishnaDas Academy, Varanasi, Edition, 2009; Kasaadhikaar 48.
12. Shri Vallabhacharya, Vaidya Cintamani. Ram Nivas Shurma, editor. Delhi: Chaukhambha Snskrita Prakashan, 2000; Kasa prakrana 266.
13. Shashtri Laxmipati. Yogratanakara. Bhrahmasankar Shashtri, editor. Varanasi: Chaukhambha Prakashana, 2013; Kasa chikitsa 421.
14. Govindadasa. Bhaishajya Ratnavali. Ambikadatta Shashtri, editor. Varanasi: Chaukhambha Prakashan, 2011; Kasa chikitsa prakrana, 15.
15. Raghunath Suri. Bhojan Kautuhalam. Acharya Balkrishna. Divya Prakashana, 2013; 288, 331.
16. Shri Vishwanath kaviraj. Pathya apathya vinirnaya. Bramhanand Tripathi. Editor. Chaukhambha Sanskrit Pratisthan, 39: 40.

17. Bhavamishra. Bhavaprakasha Nighaṅṭu. Chunekar KC. Editor. Chaukhamba Bharati Academy; Varanasi, 2013.
18. Vaidya Ranjitrai Desai. Nidaan chikitsahastamlaka. Shree Baidyanath ayurved bhavan private limited, 2010; 7.
19. Nosalova G., Mokry J., Tareq Hassan K.M. Antitussive activity of the fruit extract of *Emblca officinalis* Gaertn(Euphorbiaceae).Phytomedicine, 2003; 10: 583-89.
20. Londhe J Deepak, Chinchalkar Shital, Ojha Nisha. Amalaki (*Emblca officinale*) Rasayana as an adjuvant therapy in the management of Paediatric recurrent respiratory tract infection (RRTI): A review. International Ayurvedic Medical Journal, 2018; 4: 2652-59.
21. Raje V.N, Yadav AV, Shelar PA. *Coccinia indica*-A Phytopharmacological Review. Research Journal of Pharmacognosy and Phytochemistry, 2013; 5(1): 9-14.
22. Sikarwar Indu, Wanjari Manish, Baghel Satyendra Singh, Vashishtha Pranav. A Review On Phytopharmacological Studies On *Chenopodium album* Linn. Indo american journal of pharmaceutical research, 2013; 3: 3089-98.
23. Nyeem Mohammed, Rashid AKM, Nowrose Meher, Hossain Md. *Solanum nigrum* (Maku): A review of pharmacological activities and clinical effects. International Journal of Applied Research, 2017; 3(1): 12-17.
24. Singh R.P, Murthy Chidambara, Jayaprakasha G.K, Studies on the antioxidant activity of Pomegranate (*Punica granatum*) peel and seed extracts using in vitro models. Journal of Agricultural and Food Chemistry, 2002; 50: 81-86.
25. Shalini V, Shobha Bhasker, Helen A. Anti inflammatory activity of *Oryza sativa* L. (Njavara). Journal of Natural Remedies, 2011; 11: 24-30.
26. Kumar Ganesan, Baojun Xu.A critical review on phytochemical profile and health promoting effects of mung bean (*Vigna radiata*). Food Science and Human Wellness, 2018; 7: 11-33.
27. Chakraborty R1, De B, Devanna N, Sen S. Antitussive, expectorant activity of *Marsilea minuta* L., an Indian vegetable. J Adv Pharm Technol Res., Jan, 2013; 4(1): 61-4.
28. Mukherjee Kaustab, Paul Pramathadhip, Banerjee Enna Ray. Anti inflammatory activities of Date Palm extracts (*Phoenix sylvestris* L). Antioxidants, 2014; 3: 1-21.
29. Rao P.V., Siew Hua Gan.Cinnamon: A Multifaceted Medicinal Plant. Evidence-Based Complementary and Alternative Medicine, 2014; 1-12.
30. Sharma Shveta, Sharma Jagmohan, Kaur Gurpreet. Therapeutic uses of *Elettaria cardomum*. International journal of drug formulation and research, 2011; 2(6): 102-8.

31. Shah Ketan, Sheth Devang, Tirgar Pravin et al. Anti inflammatory activity of *Triticum aestivum* on carrageenan induced paw odema in wistar rats. *Pharmacologyonline*, 2210; 745-51.
32. Gulhane Harshad, Nakanekar Amit, Mahakal Nilesh. Gomutra (cow urine): a multidimensional drug review article. *International Journal of Research in Ayurveda and Pharmacy*, 2017; 8(5): 1-6.
33. Mahajan R.T, Chopda M.Z., Phyto-Pharmacology of *Ziziphus jujube* Mill- A plant review. *Pharmacognosy reviews*, 2009; 3: 320-29.
34. Mathew E.L., Sindhu G., Helen A. *Dolichos biflorus* exhibits anti inflammatory and antioxidant properties in an acute inflammatory model. *Journal of food and drug analysis*, 2014; 22: 455-62.
35. Korhalkar Anagha, Deshpande Manasi, Lele Priya, Modak Meera. Pharmacological studies of yashtimadhu (*Glycyrrhiza glabra* L.) In various animal models - a review. *Global Journal of Research on medicinal plants and Indigenous Medicine*, 2013; 2: 152-164.
36. Lesley M. Butler, Woon-Puay Koh et al. Prospective Study of Dietary Patterns and Persistent Cough with Phlegm among Chinese Singaporeans. *American journal of respiratory and critical care medicine*, 2006; 173: 264-70.