



Review Article

NEED OF REDEFINING RASA-DOSHA DYNAMICS - A CROSS SECTIONAL STUDY

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ABSTRACT

There are standard descriptions on the relationship between *Doshas* and *Rasa* in Ayurveda textbooks. Particular Rasas increase/decrease respective Doshas, so that Rasas become causes of diseases through excess usage. In the other side they classify Doshas having opposite characters. Even when the standard Rasa dosha relationship prevails, in practice it is often observed that such relations are surmounted. Here is an effort to explore such phenomenon. Methodology: 1. Survey was conducted among practitioners with a structured semi validated questionnaire to collect ideas regarding most repeated Dosha in diseases reported at general clinics and to enlist most frequently used Kashaya yogas in general practice. 2. Findings were tabulated. 3. Most frequently used Kashaya yogas were analysed for Rasas of their ingredients and rasa profiles of the formulations were prepared. Results: From the survey it was found that most repeated *Doshas* among diseases is Vata. Among the most frequently used Kashavas majority belong to Vatahara group. But from the Rasa profiles prepared it was found that most of the ingredients belong to Tikta-kashaya rasa. This finding is contradicted with the conventional Rasadosha relationship. Because Tikta-kashaya rasas usually increase Vata. Conclusion: Even though Rasa dosha relationship is vital in Ayurveda, in practice some of the rules are violated.

INTRODUCTION

In Ayurveda the basic concept of drug action is expounded with the help of principles of *Rasa panchaka* i.e., *Rasa, Guna, Virya, Vipaka* and *Prabhava*. Among them, *Rasa* (taste) is deemed to be first and direct indicator of drug action. So, it has been given importance in Ayurvedic classics. Rasa can be defined as the knowledge perceived through *Rasanendriya*. We have the concepts of *Rasa* and *Anurasa*. Among tastes present in a substance, that which is clearly recognized is designated as *Rasa*/primary taste and others which are not clearly manifested or which are understood at the end are *Anurasa*/ secondary taste. [2]

Rasa - dosha relationship is explicitly detailed in Ayurveda text books.

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Among Shad rasas, Madhura, Amla and Lavana rasas alleviate Vata dosha., Tikta, Katu and Kashaya rasas alleviate Kapha dosha and Kashaya, Tikta and Madhura rasas alleviate Pitta dosha.³

Table 1: Dosha & Rasas alleviating Dosha

Name of <i>Dosha</i>	Rasas alleviating Dosha
Vata	Madhura, Amla, Lavana
Pitta	Kashaya, Tikta, Madhura
Kapha	Tikta, Katu, Kashaya

Gurvadi gunas which are considered to be located in rasa are actually based in Dravya, formed by Panchamahabhutas which also form the base of Rasas. The Gunas are attributed as being located in Rasas because of their concomitant coexistence^[4]. Rasas are graded to superior (Uthama), moderate (Madhyama) and inferior (Avara) based on the major qualities possessed by them^[5] as shown in table no 2.

Table 2: Guna & Grades of Rasa

Guna	Uthama	Madhyama	Avara
Snigdha	Madhura	Amla	Lavana
Ruksha	Kashaya	Katu	Tikta

Sita	Kashaya	Madhura	Tikta
Ushna	Lavana	Amla	Katu
Guru	Madhura	Kashaya	Lavana
Laghu	Tikta	Katu	Amla

In Ayurveda, there are ample importance was given to application of particular *Rasas* abiding the general principle of *Rasa* – *dosha* relationship. To show this application, three instances are detailed below:

1. General treatment of Dosha

While describing the general treatment of *Doshas*, usage of *Madhura*, *Amla*, *Lavana* for the treatment of *Vata*, *Madhura*, *Tikta*, *Kashaya* for the treatment of *Pitta* and *Katu*, *Tikta*, *Kashaya* rasas for the treatment of *Kapha* can be seen.^{6,7,8}

2. Specific treatment of diseases

Rasa has been given importance in specific treatment of diseases also. For example usage of Madhura rasa has been told in Paithika kasa chikitsa^[9] and usage of Katu rasa predominant ghee in Kaphaja gulma.^[10]

3. Description about Prakriti

Prakriti is the personality trait dominated by particular *Doshas* which determines the primary psycho-physical characteristic of a person. This includes affinity to particular types of food materials. While describing these food materials, importance has been given to particular rasas. Comfort and cravings of *Madhura*, *Amla* and *Lavana rasa* for *Vataja prakriti* persons, *Madhura*, *Kashaya*, *Tikta rasa* for *Pittaja prakriti* persons, *Tikta*, *Katu*, *Kashaya rasa* for *Kaphaja prakriti* persons have been told during *Prakriti* description.[11]

Similarly we can see the application of general rule of *Rasa* and *Dosha* throughout Ayurveda classical text books. But in general practice, especially in Kerala, mostly preferred formulation is *Kashaya*. Roughly it is observed that most of the *Kashaya yogas* contain *Kashaya Tikta rasas* even in formulations intended to treat *Vataja* diseases. It seems that there is nonconformity in practice regarding the application of *Rasa-dosha* dynamics mentioned in Ayurvedic classics. But, this phenomenon is not properly understood or analysed.

Hence, there is a curiosity to know the real scene behind this phenomenon. This enquiry is an attempt to explore the status of applying *Rasa-Dosha* relationship in general practice.

AIM OF THE STUDY

To review *Rasa-Dosha* relationship as evidenced from prescription of *Kashaya yogas* in general practice.

METHODOLOGY

• Survey among Ayurveda practitioners for identifying most commonly used *Kashaya yogas*.

- Listing out of mostly prescribed *Kashaya yogas*.
- Preparing *rasa* profile of yo*gas* identified.
- Exploring the agreement of this *Rasa* profile with established *Rasa dosha* dynamics.

Survey

For the purpose of collecting information regarding most repeated *Dosha* in diseases reported at general clinics and to enlist most frequently used *Kashaya yogas* in general practice an online survey using Google form was conducted. The questionnaire comprised of total 10 questions, the first 4 questions were to collect respondent's personal information and the next 6 questions to gather information regarding mostly prescribed *Kashaya yogas* in general practice. Sampling procedure was purposive sampling. The questionnaire is attached as appendix-1.

Survey Observations and Results

50 Ayurveda practitioners of average practice of 10 years participated in the survey. For the first question which is regarding the common complaints of patients approaching mostly in OPD, 84% opined as between the age group of 30-60 years. Rheumatic complaints and neurological disorders were the common complaints of patient attending in OPD. For mostly used medicinal form, 80% participants agreed with the option Kashaya and most commonly used Kashava vogas were Punarnavadi kashayam, Gandharva hasthadi kashayam, **Amritotharam** kashayam, Rasna sapthakam kashayam, Rasna erandadi kashyam and Maha rasnadi kashayam. respondents opined that *Dosha* predominance of patient repeated mostly in OPD was of Vata predominance. For the last question, consideration of action of Rasa on Tridosha while prescribing drugs, 43% participants chose the option sometimes, 39% participants chose the option mostly and only 11% participants chose the option always.

Table 3: Kashaya yogas and their frequency

Kashaya	Frequency
Punarnavadi kashaya	66%
Gandharvahasthadi kashaya	60%
Rasnasapthakam	54%
Amritotharam	54%
Dasamula katutrayam	52%
Rasna erandadi	51%
Maharasnadi	41%

Rasa Profile of Selected Kashaya Yogas

The most repeated seven *Kashaya yogas* were selected and their *Rasa* profiles were prepared. For this, the *Rasa/s* present in each ingredient is noted and tabulated to see the most repeating *Rasa* in a

formulation. Tables 4 to 10 and graphs 1 to 7 explain the *Rasa* profile of the selected *Yogas*. [12]

Table 4: Gandharvahasthadi kashaya¹³

Tuble 1. danana vanastnaa kasnaya		
Rasa		
Madhura, Katu, Kashaya		
Tikta, Kashaya		
Katu		
Katu		
Kashaya		
Madhura, Tikta, Kashaya		
Madhura, Tikta, Kashaya		
Madhura, Tikta		

Table 5: Enumeration of rasa in Gandharvahasthadi kashaya

Rasa	Number
Madhura	4
Amla	0
Lavana	0
Tikta	4
Katu	3 309
Kashaya	5

Graph -1: Gandharva Hasthadi Kashaya



Table 6: Rasna Erandadi Kashaya¹⁴

Ingredients Rasa		
Rasna	Tikta	
Eranda	Madhura, Katu, Kashaya	
Bala	Madhura	
Sahachara	Tikta, Madhura	
Satavari	Madhura, Tikta	
Dusparsa	Madhura, Tikta, Kashaya	
Vasa	Tikta, Kashaya	
Amrita	Tikta, Kashaya	
Devahva	Tikta, Katu, Kashaya	
Ativisha	Tikta, Katu	

Ghana	Tikta, Katu, Kashaya
Ikshura	Madhura, Amla, Tikta
Sati	Tikta, Katu, Kashaya
Viswa	Katu

Table 7: Enumeration of rasa in Rasna erandadi kashaya

J		
Number		
6		
1		
0		
11		
6		
7		

Graph 2: Rasna erandadi kashaya

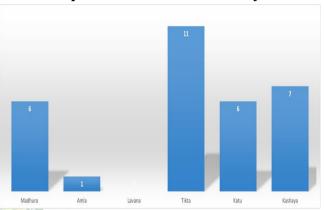


Table 8: Maha rasnadi kashaya¹⁵

Ingredients	Rasa
Rasna	Tikta
Dhanwayasha	Madhura, Tikta, Kashaya
Bala	Madhura
Eranda	Madhura, Katu, Kashaya
Devadaru	Tikta, Katu, Kashaya
Sati	Tikta, Katu, Kashaya
Vacha	Katu, Tikta
Vasa	Tikta, Kashaya
Nagara	Katu
Pathya	Kashaya
Chavya	Katu
Musta	Tikta, Katu, Kashaya
Punarnava	Madhura, Tikta, Kashaya
Guduci	Tikta, Kashaya
Vrdhadaru	Kashaya, Katu, Tikta
Satapushpa	Katu, Tikta
Gokshura	Madhura

	, ,
Aswagandha	Katu, Tikta, Kashaya
Prativisha	Katu, Tikta
Krtamala	Madhura
Satavari	Madhura, Tikta
Krishna	Katu
Sahachara	Tikta, Madhura
Dhanyaka	Kashaya, Tikta
Brhati	Katu, Tikta

Table 9: Enumeration of *Rasa* in *Maharasnadi* kashaya

Rasa	Number
Madhura	8
Amla	0
Lavana	0
Tikta	17
Katu	13
Kashaya	12

Graph 3: Maharasnadi kashaya

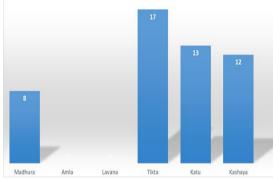


Table 10: Rasna sapthakam kashaya¹⁶

Table 201 Hasha supulanan hashaya	
Ingredients	Rasa
Rasna	Tikta
Amrita	Tikta, Kashaya
Aragwada	Madhura
Devadaru	Tikta, Katu, Kashaya
Trikandaka	Madhura
Eranda	Madhura, Katu, Kashaya
Punarnava	Madhura, Tikta, Kashaya

Table 11: Enumeration of *Rasa* in *Rasna sapthakam* kashaya

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Rasa	Number
Madhura	4
Amla	0
Lavana	0
Tikta	4
Katu	2



Graph 4: Rasna sapthakam kashaya

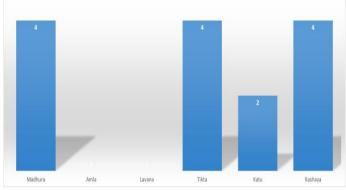


Table 12: Punarnavadi kashaya¹⁷

Ingredients	Rasa
Punarnava	Madhura, Tikta, Kashaya
Nimba	Tikta, Kashaya
Patola	Tikta
Sundi	Katu
Tikta	Tikta
Amrita	Tikta, Kashaya
Darvi	Tikta, Kashaya
Abhaya	Kashaya

Table 13: Enumeration of *rasa* in *Punarnavadi* kashaya

0,	
Rasa	Number
Madhura	1
Amla	0
Lavana	0
Tikta	6
Katu	1
Kashaya	5

Graph 5: Punarnavadi kashaya

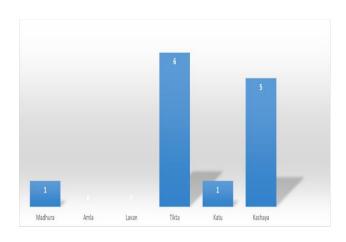


Table 14: Dasamula katutrayam kashaya18

Ingredients	Rasa
Kasmari	Tikta, Kashaya, Madhura
Vilwa	Kashaya, Tikta
Patala	Tikta, Kashaya
Syonaka	Madhura, Tikta, Kashaya
Agnimantha	Tikta, Katu, Kashaya, Madhura
Salaparni	Madhura, Tikta
Prsniparni	Madhura, Tikta
Brihati	Katu, Tikta
Kantakari	Katu, Tikta
Gokshura	Madhura
Nagara	Katu
Pippali	Katu
Maricha	Katu
Vrisha	Tikta, Kashaya

Table 15: Enumeration of Rasa in Dasamula katutrayam kashaya

Rasa	Number
Madhura	6
Amla	0
Lavana	0
Tikta	10
Katu	6
Kashaya	6

Graph 6: Dasamulakatutrayam kashaya

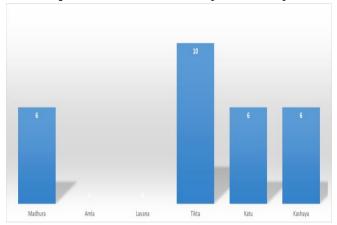


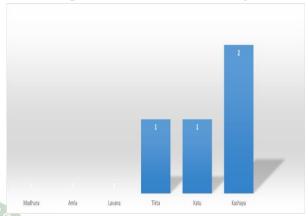
Table 16: Amritotharam kashaya19

Ingredients	Rasa
Nagara	Katu
Amrita	Tikta, Kashaya
Hareetaki	Kashaya

Table 17: Enumeration of *Rasa* in *Amritotharam* kashaya

Rasa	Number
Madhura	0
Amla	0
Lavana	0
Tikta	1
Katu	1
Kashaya	2

Graph 7: Amritotharam kashaya



Rasa Profile Observations

In Gandharva hasthadi kashaya, 56% of total Rasa constitutes Tikta kashaya rasas. In Rasnaerandadi kashaya and Maharasnadi kashaya 58% constitutes Tikta and Kashaya rasas. In Rasnasapthakam kashaya and Dasamula katutrayam kashaya 57% constitutes tikta and kashaya rasas. In Punarnavadi kashaya, 84% and in Amritotharam kashaya, 75% constitutes Tikta and Kashaya rasa.

Therefore it can conclude that the selected *Kashaya yogas* have *Tikta* and *Kashaya rasa* predominance for more than 50%.

DISCUSSION

When learning theory of Ayurveda, the primary lessons of basic principles of Ayurveda deals with Rasa-dosha relationship. That means, it is a primary understanding in Ayurveda and also it is much generalised one. As a primary concept, action (Karma) of a Dravya is said to be indicated by its rasa itself. Even though this indication is a general one, actually Dravyas exhibit much diversified activities in body. There are many modifications in Rasa-Dosha relationship, when it comes from principles to practice. Dravya and Sarira are the two domains those having Panchabhautik configuration. Rasa and Dosha are the representatives of *Dravva* and *Sarira* respectively. Chikitsa refers to the action of Dravva on Sarira. When the rasa simply located inside the Dravya, it cannot function, unlike *Dosha* does inside body. But, the action of rasa is revealed when Dravya comes in dynamic contact with Sareera. So it is said that, specific

manifestations of *Dravya* can be determined by taking in to account the specific attributes of the *Rasas*. Even though *Rasa* is attributed with many types of qualities (*Guna*), it is assumed considering the association (*Sahacharya*) of such *Gunas* with respective *Rasas*, not an actual phenomenon. *Dravya* is the one which exhibits *Guna* and *Karma*.

Action attributed to Rasas does not hold good in all circumstances, it is not possible to determine the attributes of a Dravya having many Rasas, simply by taking into account, the attributes of individual Rasas. [20] Hence, how Dravya acts on body is more important than its constitution.

Survey observations in the present study points out that, in practice *Vata rogas* are the common complaints and prescription contains Kashaya as the main medicinal form used with the predominance of Kashaya & Tikta rasas. The discrepancies in the relationship between Rasa and Dosha are very clear in this survey results and it becomes exceptional to the famous Rasa- Dosha relationship. In Ayurveda there are a few instances where exceptions become examples. While enlisting the best material in different Rasa-based groups (Rasaskandha) it can be seen that all those varieties are exceptional to the general characteristics of the Rasa to which it chiefly belongs. Ghee, gooseberry, rock salt, Patola, dry ginger, *Hareetaki* are best in the *Rasaskandha* in that order. All these exhibits exceptional properties in the group. [21] That is the best example for how general principles vary in specific situations. Another example is use of Tikta rasa in the management of diseases caused by Asthi kshaya.²² Because Asthi and Vayu are having Asraya asrayi relationship²³ and usage of *Tikta rasa* in this situation stands exceptional with regard to Rasa dosha relationship. Samanya visesha sidhantha are the base for life and treatment, but, these all are exceptions to general rules of Samanya visesha theory. Hence, it is natural that there can be exceptions in any generalised principles in Avurveda, which are becoming pivotal in practical applications. The case of Rasa-Dosha relationship also is such a context, as evidenced from this study.

CONCLUSION

Rasa-dosha relationship needs revision in the case of Ayurvedic drug prescription as evidenced from the survey conducted. In this approach, *Dravya* is more important in the initial stages of management than Rasa. The Tikta & Kashaya Rasas used in the initial stage is meant for Pachana and Deepana. Avasthanusara chikitsa is the unique concept of Ayurveda and Ama pachana is getting the prime importance. Dravya prabhavam is more important than Rasa prabhavam.

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