

PARYESHANA

INTERNATIONAL JOURNAL OF AYURVEDIC RESEARCH

www.pijar.in

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Abstract- This human body is maintained for lifetime by proper intake of proper food.

So for perfect *Chikitsa*, It is very important to know the main *Rasa* of each and every *Aahardravya* to define its exact action on specific *Dosha*. This relation between *Rasa* and *Dosha* is termed as *Rasa-Dosha Sambandha* or *Rasa-Dosha* correlation. Correlation is a relationship in which one thing affects or depends on another.For proper treatment one should know the exact relation between *Dosha* and *Rasa* whether favorable or unfavorable.

Cohort Retrospective study is analytical (observational) study which is usually undertaken to obtain additional evidence to refute or support the existence of an association between suspected cause and disease. The purpose of this Retrospective study was to correlate or to find any relation between *Atiyoga* of each *Rasa* and various *Lakshana* of specific *Dosha* if any found in Volenteers taken for this study.

Key words- Rasa- Dosha relation, Atiyoga, Retrospective observational study

INTRODUCTION

The human body is maintained for lifetime by proper intake of proper food. Though this food exists outside the human body, but according to *Panchabhautika* theory it is also made up of *Panchamahaabhoota*. (1) *Aahara* maintains *Prana* in the body which is responsible for life. Both are *Panchabhautika* in nature and exert effect on each other.(2)

This *Aahara* sustains or maintains human body by its different

attributes or *Rasapanchaka*. (3) *Rasa* of specific *Aahardravya* is more important in this process. The balance of six *Rasa* should be maintained for well being . (4)It is termed as *Samyakyoga*. Improper consumption of any Aahardravya having specific Rasa exerts either *Ati/ Mithya* or *Heenayoga* of that specific Rasa which results inbalance of *Dosha*. Being *Panchabhautika* in origin, this *Aahaara* has direct action on *Panchabhautika* components of the human body like

ISSN-2456-4354 Research Article

Dosha-Dhatu-Mala according to *Samanya-Vishesha* theory.

So for perfect *Chikitsa*, it is very important to know the main Rasa of each and every Aahardravya to define its exact action on specific Dosha as these are related to each other. Without the clear knowledge about this interrelation between Rasa and Dosha one is not able to diagnose as well as treat the patient. Each patient has individual characters and should be diagnosed and be treated individually. Two patients of the same diagnosis may not be treated by same medicine. Many other factors like Dooshya-Desha-Bala-Kala-Anala-

Prakruti-Vaya-Sattwa-Satmya-Aahara-Avastha are also contributing.(5) So for proper treatment one should know the exact relation between *Dosha* and *Rasa* whether favorable or unfavorable.

A special Retrospective survey study had been done to support this literary study concept.

Cohort Retrospective study is analytical (observational) study which is usually undertaken to obtain additional evidence to refute or support the existence of an association between suspected cause and disease. In epidemiology, the term 'Cohort' is defined as a group people who share a common characteristic or experience within a defined time period (e.g. age, occupation, exposure to a drug or vaccine, pregnancy etc.) The comparison group may be the general population from which the cohort is drawn ,or it may be another cohort of persons thought to have had little or no exposure to the substance in question, but otherwise similar.

The distinguishing features of Cohort studies are 1-the cohorts are identified prior to the appearance of the disease under investigations 2.the study groups, so defined, are observed over a period of time to determine the frequency of disease among them 3.The study proceeds forward from cause to effect. These criterias are used to design the retrospective observational survey study to support the study of *Rasa-Dosha* correlation .

The purpose of this Retrospective study was to correlate or to find any relation between *Atiyoga* of each *Rasa* and various *Lakshana* of specific *Dosha* if any found in Volenteers taken for this study. *Aahara* is composed of *Shadrasa*. It has been mentioned as one of the *Vyapaka Hetu'* of all

Vyadhi. So efforts have been made to see any correlation of *Shadrasatmaka Aahara* and *Dosha Lakshana* with the help of this study.

It is also needed to prove this concept of relation between *Rasa* and *Dosha* with the help of survey study. This was the rationale behind selection of this topic

So study was done with the hypothesis -Two variables are associated (i.e dependent) i.e *Rasasevana* and *Doshalakshana* are associated.

Materials-

1000 Volunteers of age between 08 to 75

Methodology of Retrospective Study-

Charaka Samhita has been taken as main or centralized idea for the discussion chapter in this Thesis. So *Atiyoga Rasalakshana* described in *Charaka Sootrasthana Adhyay* 26 was used to draw this special case paper.

 1000 Volunteers of age between 08 to 75 and of either sex with their consent were selected randomly for this survey. Since the age group under study was very large; to minimize the errors large sample size was selected. According to statistics if 1% error is accepted then minimum sample size required was 990. Hence 1000 Volunteers were selected.

- A detailed history of *Aahara-Dravyatah* (Bhat,Poli,Bread,Bhaji), *Gunatah*,(Gurva di), *Rasatah* (Any) of each patient was taken. This history was taken for minimum 1 month. *Aahara* shows its effect *Hita* or *Ahita* on *Shukradhatu* after the period of minimum 1 month. So history of *Aahara* for minimum 1 month. So history of *Aahara* for minimum 1 month was taken.In the case of aged Volenteers (Above 70 yrs) efforts were taken to observe history of *Aahara* by asking their close relatives also wherever needed.
 - Annakala or the time for meal is different for each person. Generally each person takes breakfast in the morning, lunch in the afternoon and dinner at night. Thus three Annakala are common. But this time may differ from person to person. Annakala of persons doing daily night duties is totally different. While taking the case of each volunteer for the survey the history of *Aaharadravya* with reference to these main 3 Annakala was observed. Thus observations about minimum 90 Annakala of each volunteer in a month were recorded. Observation about consumption of

snacks other than these 3 main *Annakala* was also recorded to check the effects of specific *Rasasevana*.

- If any Volenteer showed minimum 75% Lakshana of Atiyoga mentioned in Samhita, it was considered as Atiyoga of specific Rasa.e.g.Total 25 Atiyoga Lakshana of Madhura rasa are mentioned in Samhita.If Volenteer showed minimum 18 Lakshana, it was termed as Atiyoga of Madhura rasa.The same method was applied for other Rasa also.
- Approach of *Ayurveda* to examine any person whether Swastha or Aatura is individual. *Aahara* consists of many types of foods having combination of many Rasa. So to observe the history of Aahara in each person is quite different as well as difficult. So emphasis was given to observe Atiyoga Lakshana of specific Rasa mentioned in Charaka Samhita Su.26 which was present in Volunteers at the time of case taking. If a volunteer consumes specific Rasa for at least 60 Annakala or more than that in a month and if showing any Lakshana of specific Rasa then it was named as *`Atiyoga'.*
- *Lakshana* of *Atiyoga* of *Rasa* mentioned in *Charaka Su* .26 were

written in a tabular form in the casepaper. The grade of 0 and 1 were used to observe these *Lakshana*. 0 means *–Lakshana* not present at the time of case taking. 1 means *–Lakshana* present at the time of case taking.

- Hina and Mityyayoga are not mentioned clearly. It is advised to see these Yoga by different Lakshana These all Yoga are interrelated. Person having Lakshana of Madhura Atiyoga may show different Lakshana of *Vatakshaya*. But it is quite difficult to check these Lakshana as Samprapti Dwidoshaja or Tridoshaja. is Estimation of *Mithyayoga* is also difficult. So in this Retrospective survey study present Atiyoga Lakshana in Volunteers and their history of Aahara of certain Rasa was observed mainly. Many Lakshana of Atiyoga of each Rasa are mentioned in Samhita. All Lakshana are not found in survey. Similar Lakshana has also been mentioned for different Rasa. In that case history of specific Rasa was applied for that *Lakshana*.
- Assessment of various Atiyoga Lakshana-

1. *Sthoulya* were assessed with the help of Height-Weight chart and all who were showing various *Lakshana*

of *Sthoulya* mentioned in *Charaka* were considered as *Sthula*.

2. *Aalasya, Atiswapna, Gaurava, Anannabhilasha* etc were subjective criteria.So the grade of 0 and 1 were used to observe these *Lakshana*

3. Enlargement of Tonsils was observed to assess *Mansabhivruddhi*.
4. History of episodes of Shwasa-*Kasa* and *Pratisshaya* were asked to Volenteers. *5. Upalepa* was assessed by examining coating on Tongue.

6 .Dantaharsha was subjective.

7. Trushna was checked by asking about increased frequency of drinking water.
 8. Kaphanishivana was assessed by asking excessive secretion from mouth or *Lalastrava*.

9 .Raktadooshana and *Pittakopa* was assessed by asking the history of *Lakshana* of *Raktadushti* like*Vidradhi, Pitika, Mukhapaka.*

10. History of *Mukhashotha* or *Padashotha* was asked to assess Shwayathu.

11. Khalitya and *Palitya* were assessed by subjective criteria.

12. Amlapitta and *Vicharchika* were assessed by Textual parameters.

13.Sadana- Kanthadaha, Aasyashosha,Bheda were also subjective. *14 .Karshana* was assessed by the history of reduction n weight.

 With the help of observed data the relation between *Rasa* of *Aahara* and *Lakshana* of *Dosha* if any were observed by using Chi-square test of Independence.

OBSERVATIONS and RESULTS-



Age wise distribution of 1000

Volunteers			
Age	Number		
8-15	193		
15 - 30	601		
30 - 45	143		
45 - 60	29		
60 - 75	34		

SEX



Sexwise distribution of 1000

Volunteers

Sex Number

re asked to

ISSN-2456-4354 Research Article

Female	524
Male	476



distribution of 1000 volunteer

Prakruti	Number
KP	270
KV	117
PK	191
PV	112
VK	143
VP	167



	Aahara	
Rasa	atiyoga	
MAL		486
МТК	PA	266
KTK		248



Doshaprakopwise

distribution of 1000 volunters

К	354
Р	316
V	330

Graph of % of volenteers in Madhur Atiyoga lakshana



1. Sthoulya. 2.Aalasya 3.Atiswapna 4.Gaurava 5.Anannabhilasha 6.Mansabhivruddhi 7.Shwasa 8.Kasa 9.Pratisshaya 10.Upalepa



1.Dantaharsha. 2.Trusha 3.Kaphavilapana 4.Raktadooshana 5.shwayathu



1. Trusha 2. Pittakopa 3. Tapa 4. Palitya







1.Aasyashosha 2Balakshaya

Dosha	MAL	MTK	KTK	Total
V	138	89	103	330
Р	151	79	86	316
К	197	98	59	354
Total	486	266	248	1000

STATISTICAL ANALYSIS

Contingency Table

Dosha	MAL	MTK	KTK	Total
V	138	89	103	330
Р	151	79	86	316
К	197	98	59	354
Total	486	266	248	1000

Rasasevana either Madhura-Amla-Lavana (MAL) or Madhura-Tikta-Kashaya (MTK) or Katu-Tikta-Kashaya (KTK) is observed in each patient but which makes things difficult as each patient comes in each group of MAL /MTK/KTK.But to check the concept only Atisevana is considered as leading factor. After creating such data, Chi square test of Association is applied to test the hypothesis that-

H-Two variables are not associated (i.e independent) i.e *Rasasevana* and *Doshalakshana* is independent. Versus-H1-Two variables are associated (i.e dependent) i.e *Rasasevana* and *Doshalakshana* are associated.

Chi square calculated = 22.90,Chi square table = 13.27,P value = 0.0001325,d.f. = 4 Since P value is less than 0.01, we are accepting H1. Hence we can conclude that *Rasa Atisevana* have significant effect on *Doshalakshana* observed.

DISCUSSION-

A special case paper for the Retrospective survey study had been prepared to support this literary study of `*Rasa-Dosha* relation '.

Out of 1000 Volenteers maximum Volenteers were found in the age group of 15-30 while minimum Volenteers were from the age group of 60-75.

Female Volenteers are more (524) than Male Volenteers (476)

Kaphapitta Prakruti Volenteers were maximum (270) wlile Pittavata Prakruti were minimum (112).

486 Volenteers consumed Aahara of Madhura-Amla-Lavana rasa.266 consumed Aahara of Madhura-Tikta-Kashaya while 248 Volenteers consumed Aahara of Katu-Tikta-Kashaya mainly.

Out of 1000 Volenteers ,354 showed Atiyoga Lakshana related to Kaphaprakopa mainly.316 Volenteers showed Atiyoga Lakshana related to Pitta while 330 showed Atiyoga Lakshana related to Vata mainly.

After analyzing the data of all Volunteers it was observed that *Atiyoga Lakshana* of mainly *Madhura* and *Amla-Lavana Rasa* were found. It is also observed that these Volunteers were consuming *Aahara* of this *Rasa* mainly. *Lakshana* of *Samayoga* and *Hinayoga* were not found significantly. Discussion of main observed *Lakshana* has been done.

1.Madhurarasa-

Main *Aaharadravya* observed are Dugdhavikruti like Paneer, Khava, Bengali Mithai, Milkshakes, Chocolates, Sabudana, Fruitsalad, Icecream, Udid dal. Volunteers with these causative factors show some Lakshana of Madhurarasa Atiyoga well as as Kaphaprakopa.

1. **Sthoulya-** Overweight Volunteers according to the Height-Weight chart and all who were showing various *Lakshana* of *Sthoulya* mentioned in *Charaka* were considered as *Sthula*. 64.6% Volunteers were found *Sthula*. They mainly showed higher consumption of Sabudana, Potato, and South Indian food like Uttapa or Masala dosa mainly. It is a *Lakshana* of *Kaphaprakopa*.

2. *Aalasya*-It is a subjective *Lakshana*. It is a *Lakshana* of

Kaphaprakopa. It is mainly observed in 61.8%Volunteers taking *Dugdhavikruti* as well as Cheese mainly in excess.

3. *Atiswapna*-It is also a subjective criteria and one of the *Lakshana* of *Kapha*. Volunteers were asked for the need for excessive sleep irrespective of sleep for normal period. 61.5%Volunteers showed excessive consumption of *Dugdhavikruti* which is *Guru* in nature.

4. *Gaurava*-Feeling of heaviness is named as *Gaurava*.It is a subjective *Lakshana.* 61% Volunteers showed history of Cheese, Pizza, Milkshakes.

5. **Anannabhilasha**-63.6% Volunteers having the consumption of *Dugdhavikruti* like *Paneer* or *Kilata* showed this *Lakshana* mainly. *Kilata* is *Guru, Brunhana* and *Kaphakara* in nature. In excess it creates *Mandagni* which leads to *Anannabhilasha*.

. Mansabhivruddhi-Abnormal 6 growth of *Mansadhatu* at various places is named as Mansabhivruddhi.62.6% Volunteers showed Gilayuvruddhi mainly. Excessive consumption of *Paneer* as well as fruits like banana, fruitsalad and milkshakes was observed in these Volunteers mainly.

Shwasa-Kaphapradhana
 Tamakashwasa was observed in
 62.7% Volunteers consuming
 Milkshakes or Icecreams and Dosa.

8 .*Kasa* -*Kaphapradhana Kasa* was found in Volunteers who were consuming *Madhurarasa Dravya* like Jam or Jelly. 63.4% Volunteers also showed this *Lakshana*.

9. **Pratishyaya**-66.5% Volunteers showed recurrent history of *Pratishyaya.* It is found in the Volunteers at the age of 10 to 12 years mainly. This age comes under the dominance of *Kaphadosha*. History of *Madhura Atisevana* like Bengali Mithai, Cold drinks, Chocolates was found in these Volunteers.

10. **Upalepa**-65.9% Volunteers showed Upalepa of Jivha mainly. It is due to excessive intake of *Madhura Aahara* having *Guruguna* like *Kilata.*

2. Amlarasa

Main *Aaharadravya* observed are-Pickles, Dadhi, Tomato, Methi, Cold drinks.

1 .**Dantaharsha**-51.3% Volunteers showed this *Lakshana* consuming excessive amount of Pickles mainly. Volunteers also showed excessive intake of aerated coldrinks which contains acids. *Vishadagun*a of *Amlarasa* in excess is a causative factor for this *Lakshana*.

2. **Trusha**-This Lakshana has also been mentioned in Atiyoga of Lavana, *Tikta* and Kashaya rasa. But 45% Volunteers showed the history of Amlarasa like Tomato, Sauce as well as bakery products mainly. Many bakery products are made up of Maida (Samita) which is *Gurugunatmaka*. These products are made up by fermentation. So Amlarasa and *Guruguna* of these products may lead to *Pittakopa* and *Trusha*.

.Kaphavilapana- It is related to 3 different excessive secretions due to Kaphadosha. According to references this *Lakshana* is due to *Atiyoga* of Amlarasa and Lavana. 44.5 % Volunteers having the history of excessive intake of Pickles and Nimbuka showed post nasal discharge mainly. Ushnaguna of Amlarasa might be responsible for this discharge.

4. *Raktadooshana*- 47.5% Volunteers consuming bakery products, Chinese food showed different *Lakshana* of *Raktadushti* like *Vidradhi, Pitika, Mukhapaka* which are mainly related to *Pitta*. Chinese food is prepared with the help of different sauces and salts like soya sauce which are *Amla* and *Kshara* in nature. Both are *Raktaprakopaka* when consumed in excess. Intake of Methi is also found in some Volunteers .

5. *Shwayathu* - 48.4% Volunteers showed the tendency of *Mukhashotha* or *Padashotha* having the history of *Methika,* Pickels.

3 .Lavanarasa-

1. **Trusha**- 47.8% Volunteers consuming snacks like Vadapav, Pickles as well as Chinese food showed this *Lakshana* mainky. All these foods contain *Lavanarasa*.

2. **Pittakopa**- 49.5% Volunteers having excessive consumption of these foods as well as Potato Wafers containing added salt showed some *Lakshana* of *Pittakopa* like *Swedadhikya*. It is due to *Ushnaguna* of *Lavana*.

3 . **Tapa**-46.3% Volunteers consuming Chinese food especially Soups showed '*Tapa*' i.e feeling of rise in temperature without having fever. It is due to *Ushnaguna* of *Lavanarasa*.

4 . *Palitya*-46% Volunteers at the age of 19 to 35 mainly showed this *Lakshana* who were consuming Wafers, Kurkure, Pickles in excess. Excessive *Lavanarasa* vitiates *Pitta* and *Romakoopa* which leads to either *Palitya* or *Khalitya*.

5. *Khalitya*-44% Volunteers consuming bakery products as well as Cheese mainly showed this *Lakshana*.These foods are *Lavana-Amla* and *Pittakara*.

6 . Amlapitta- It is the main Lakshana observed in 50% Volunteers consuming *Amla, Lavana* as well as Madhurarasa in excess. Amla and Lavanarasa are responsible for Pittapradhana Agnidushti directly which leads to Amlapitta. Madhurarasa in excess makes Agnimandya which also can lead to Amlapitta. Many other causative factors are also responsible for Amlapitta, but food like Chinese, bakery products, cold drinks as well as non vegetarian like chicken and mutton having these Rasa mainly is observed in this survey.

7 . *Vicharchika*-It is found in 45.3% Volunteers consuming Pickles as well as added salt. Many volunteers showed *Sravi Vicharchika*. It is due to excessive use of *Lavana* and *Amlarasa* also.

4. Katurasa-

1.*Sadana*-The feeling of tiredness is named as '*Sadana'*. 23.7%Volunteers consuming food containing Green

pepper as well as spices showed this *Lakshana* mainly. It is due to *Aagneya* nature of *Katurasa*. Vitiated Vata is also responsible for it.

2. **Shariratapa**- It has been mentioned in *Atiyoga* of *Lavanarasa* also.It is a feeling of rise in body temperature *.Aagneya* nature of *Katurasa* is responsible for it. 46.7% Volunteers consuming Garama Masala and spicy non vegetarian food as well as Capsicum showed this *Lakshana* mainly.

3. **Kanthadaha**- Kanthadaha was observed in 22.5% Volunteers showing history of excessive consumption of Green peeper, food containing Garam Masala.It is due to *Pittakopa*.

4. **Bheda-**23.4% Volunteers '*Bheda'* type pain at different *Asthi* like Tibula.They were consuming Spices like Garama Masala.Vitiated *Vata* due to excessive *Katurasa* is a causative factor.

5. Tiktarasa-

Main *Aaharadravya* were Karvellak, Palaka.

1. *Aasyashosha*-46.9% Volunteers consuming Karavellak as well as Palaka showed this *Lakshana* .*Rukshaguna* and *Tiktarasa* are causative factors. 2. **Balakshaya-**46.7% Volunteers showed the feeling of Fatigue or *Balakshaya* who were consuming *Patrashaka* like Palaka , *Methika beeja*.

6.**Kashayarasa-**

Main *Aaharadravya* were Supari, <mark>Mataki.</mark>

1 .*Aasyashosha*-48.1% Volunteers consuming *Pooga* or Supari after meal show this *Lakshana*.It is due to *Rukshaguna* of *Kashayarasa* as well as *Vata.*

2 .*Karshana*-47% Volunteers showed reduction in weight since 6 months who were consuming Mataki, Chavali. These are *Shimbidhanya* having *Kashayarasa* and *Vatala*.

3. *Udaradhmana* and 4. *Vishtambha Lakshana* were not significant though they were observed.

CONCLUSION

Two variables are associated (i.e dependent) i.e *Rasasevana* and *Doshalakshana* are associated. *Rasa Atisevana* causes *Doshaprakopa*. This Association is found statistically significant as the P value is less than 0.01.

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Sansthan, Varanasi

Edition.

Edition.

1/28

3Sushrut

Commentry

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Chaukhamba

(India) 1980 Edition.

2.

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Source of Support: NIL Conflict of Interest : None declared

ISSN-2456-4354