# Study of Hetuvimarsha of Hridroga

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**Abstracts: Introduction:** Cardiovascular diseases are rising as a newer epidemic in developing countries like India. In 2010 cardiovascular diseases accounted for approximately 38 percent of all deaths. This problem is heading so dynamically that preventive medicine will play a major role than that of specific treatment for the disease. Ayurvedic concept of *Hetuvichar* is very important aspect of treatment of *Hridroga* as it is said in *Charaka vimanasthana* 7-

Sanshodhanam sanshamanam nidanasya cha varjanam |

### Etavadbhishaja karya roge roge yathavidhi ||

*'Nidanparivarjana'* is also important part of treatment and prevention of disease. So it is very important to know the etiological factors of any disease because prevention is better than cure and most of Heart diseases can be prevented. **Aim And Objective:** To study *Hetus* (Etiological Factors) of *Hridroga* according to Ayurvedic classical texts with special reference to Cardiovascular Diseases. **Material And Methodology :** 40 Patients were included in study. Detailed history of *Hetus* was obtained with the help of case record format. Obtained data was tabulated and Statistical analysis was done. **Result:** In *Ahariya hetus Tikta rasa sevan* P value is 0.010, *Kashay rasa* P value is 0.005, *Snigdhahar sevan* P is 0.026 and *Paryushit ahar* P value is 0.010. In *Viharaj hetus Avyayam* P value 0.007 and *Atichankramana* have P value 0.050. **Conclusion:** This study confirms presence of classical causative factors of *Hridroga* in CVD patients. [Mantra M NJIRM 2014; 5(3) :108-115]

Key Words: Hridroga, Cardiovascular diseases, Hetus of Hridroga.

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**Introduction:** Cardiovascular diseases (CVD) are one of the leading causes of deaths in developed as well as developing countries. In 2010 CVD accounted for approximately 38 percent of all deaths. CVD has been the number one killer in the developed countries. Rate of CVD increased so rapidly between 1940-1967 that WHO announced it most serious epidemic.

As heart is one of the important Marma explained in Avurvedic samhitas, it is the seat of important body constitutes like Vyana vayu, Sadhak pitta and Avalambaka kapha and Ojas. Many important and involuntary functions of body are regulated by heart. Any abnormality or affliction of normal heart physiology leads to morbid conditions or ultimately Ayurvedic concept of Etiology to death. (Hetuvichar) has potential to provide solution to rising cause of cardiovascular diseases. Consideration of Hetu (causative factor) is an important aspect, which could be useful in prevention, diagnosis and treatment of *Hridroga*; Though diet & lifestyle related risk factors are known, some of the Ayurvedic aspects like Viruddha ahaar, Ajirnashana, Pramitashan, Guruahar, Snigdhahar etc. need to be considered.

Therefore it is necessity of time to understand *hetuvichar* of *Hridroga* according to various classical texts and contribute to prevention of *Hridroga* by holistic approach.

*Hridaya Nirukti-* (Etymological Interpretation): The word *Hridaya* is derived from basic *Sanskrit Dhatu- Hru+ Da+ Eena* 

- *Hru-Hruja* - Means 'to receive' i-e Heart is receiver of the blood and nutrients from rest of the body.

- *Da- Dane* - Means 'to distribute' i-e Heart circulates pure blood and nutrients to body parts.

- *Ee- Eeno gatyarthe* - Means 'to move i-e Heart is continuously functioning/moving organ.

*Hridroga*- "Dooshayitva rasam doshah viguna hridayam gatah\ Hridi badha prakurvanti hridrogam tam prachakshate \\"

Madhav nidan Hridroga: Vitiated Doshas get lodged in viguna (with abnormal qualities) rasa dhatu & vitiate the rasa dhatu. This vitiated rasa dhatu embeds into heart which ultimately afflicts

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the heart and results into impairment of heart and resulting in the disease *Hridroga*.

**Hetu( Etiological Factors):** Causative factors which aggravate the *Dosha* and leads to disease are called as *Hetu. Nimitta, Ayatana, Pratyaya, Utthaana, Karan* and *Nidan* are synonyms of *Hetu.* In classical texts various *Hridroga Hetus* are described. For this study all directly mentioned classical causative factors are considered. Many other causative factors are scattered in classical texts.

Heart is vital organ in the body; it has close correlation with *Rasavaha srotas* and *Pranavaha srotas*, as site of origin (*Srotomul*). So causative factors of both these *srotodushti* considered. *Charaka* has some other causative factors in *Charaka Sutrastahana* 17 and *Vimanasthana* 5; which can also be included in *Hridroga Hetus*. These *Hetus* comprises *Rathakshobha* (Irritation due to excessive travelling), *Ati chankramana* (excessive walking), *Divaswap* (Nap in day) and *Ativyavay* (excessive sexual intercourse).

Suppression of forceful stimulation for urges( Vegadharana) of Adhovat (Flatus), Shakrut (Defecation), Udgar (Belching), Trishna nigraha (Thirst), Kasa (Cough), Shrama Shwas (Exercise induced breathlessness), Ashru (Tears), Shukra (Eructation) and can lead to Hridroga. Sushruta has clearly mentioned that suppression of most of the urges develop Udavarta, which can further leads to Hridroga.

*Hetu* Classification: As per involvement of causative factors in disease development process, they are divided into following manner-

## **Classification-1**

- → Sannikrishta (Immediate cause of disease)
- → Viprakrishta (Distant cause of disease)
- → *Vyabhicharee* (Factor not potent enough to cause disease)
- → *Pradhanik* (Prime cause of disease)

## **Classification-2**

- →Asatmendriyarth Sanyog (Unwholsome contact with senses)
- →Pradnyaparadh (Intellectual blasphemy)

 $\rightarrow$  Parinaam (Seasonal blasphemy)

## **Classification-3**

- $\rightarrow$  Vyadhi Hetu (Factors associated with disease)
- $\rightarrow$  Dosh Hetu (Factors vitiating humours in the body)
- →Ubhay Hetu (Factors associated with disease & vitiating humours in body)

### **Classification-4**

- → Vyanjak (Precipitating/Aggravating factors)
- → Utpadak (Developing factors)

## **Classification-5**

- → Bahya (External factors)
- → Abhyantar (Internal factors)

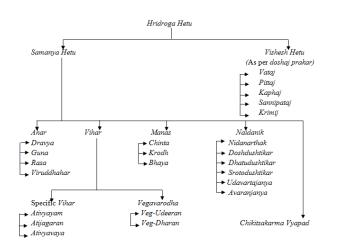
## **Classification-6**

- $\rightarrow$  Vyapad (Complication of treatment)
- $\rightarrow$ Nidanarthakar (Result of another disease)

# Causative Factors Of *Hridroga* Are Considered In Following Related Aspects-

- Classical causative factors of Hridroga vyadhi
  - Samanya Hetu
  - Vishesh Hetu
- Ahar related factors-
- Viruddha ahaar (Hrid Viruddha)
- Dravya
- 🛠 Guna
- Rasa
- Vidhi (Vidhi Visheshayatanani)
- Vihar related factors-
  - Specific Vihar
- Vegavarodha
- 🕨 Manas Hetu
- Nidanarthakar Hetu
- Samprapti Ghatak related Hetu
  - Dosha Hetu Prakop, Avritatva etc
  - Dhatu dushti related Hetu
  - Srotas Dushti
- Rasavaha Srotas
- Pranavaha srotas
  - Avayava dushtikar Hetu
  - Paratantra Hridroga
  - Chikitsa karma vyapad
- 🛠 Agantu Hetu
- > Abhighata

## **Classification Of Hridroga Hetu:**



Samanya Hetu: As Hridaya is a mulasthan of Pranavaha and Rasavaha srotas causes affecting them are also responsible for Hridroga. "Kshayat sandharanat raukshyat vyayamat kshudhitasya chal Pranavahini dushyanti srotamsi anyaischa darunaihi II" Charak vimansthan 5/10

"Gurusheetamatisnigdhamatimatram samashnatam | Rasavahini dushyanti chintyanam cha atichintanat ||" Charak vimansthan 5/13

Samanya hetus of Hridroga according to various classical texts- "Shokopavasvyayamruksh ashushkalpabhojanaihi | Vayuravishya hridayam janayutyuttamam rujam ||" Charak sutrasthan 17/30

"Vegaghatoshnarukshannairatimatropasevitaihi | Viruddhadhyashanjeernairasatmaishchapiati bhojanaihi ||"Sushrut Uttartantra 45/3

Vyayamteekshnaativirekabastichintabhayatrasgada tichara | Chardyamsandharanakarshanani hridroga katruni tatha abhighataha ||" Charak chikitsasthan 26/7

Aahara Hetu (Dietary Factors) : Dravya (Groceries)-Under this group, Acharyas mentioned specific Dravyas which might develop particular type of Hridroga considering the specific attributes Tila sevan (Sesame), Ati Ksheera sevan (Excessive milk consumption), Ati gudasevan ( Excessive consumption of jiggery), Atimadya Sevan ( Alcohol (Attributes) abuse). Guna Ati Rooksha Sevan(Consumption of excessive dry food stuff), Ati Shushka Sevana (excessive dry food stuff), Ati Ushna Sevan(Drug having innate tendency to sweating and generate increase burning sensation), Ati Sheeta Sevana( Attribute cold to touch), Ati Kshar Sevana(Kshar has predominant intense, hot properties; it has irritating action on soft parts of the body), Ati Guru Sevana(Food stuff heavy to digest).

Ahar Matra( Quantity Of Food)-Alpa Bhojana(Consumption of less quantity of food), Ati Ahar Sevana(Regular consumption of ample quantity of food), Upavasa (Fasting).

Ahar Vidhi (Dietary Habits)- Adhyashana (Repeated consumption of food), Ajeerna Bhojan (Consumption of food before effective digestion of previously consumed food ), Asatmya Bhojana(unwholesome diet),Viruddha Ahar Sevan(Consumption of unctuous food stuff), Hrid Viruddha(Consumption of food against will), Excess Katu(Pungent), intake of Lavan(Salty), Kashay(Astrigent) rasa.

Vihar Hetu (Lifestyle Related Factors) Ati Vyayama (Excessive physical exercise), Shrama (Physical activity beyond capacity), Ativyavay (excess of coitus or sexual act), Avyayam (Lack of exercise), Ati Atapa Sevan (Recurrent exposure to sunlight), Rathakshobha (irritation to the body due to vehicle), Atichankramana(Regularly excessive walking), Divasvapa (Nap during day time), Vegadharan(Suppression of urges).

- → Manas Hetu (Psychological Factors) Achinta(Lavish and luxurious lifestyle), Shoka (Sorrowful or miserable state of mind), Atichinta(Excessive stress), Bhaya(Fear), Atikrodha(Excessive anger), Trasa(anxiety or physical irritation).
- → Agantu (External Factors) Abhighata(Injury), Gadatichara(Treatment abuse)
- → Nidanarathakara Hetu (Factors that leads to a disease and its associated diseases)

- → Dosha Hetu (Factors vitiating three humours of body viz. Vata, Pitta and Kapha)
- → Dhatu(Constituents related factors)
- → Avayava dushtikar Hetu(Etiological factors that depravities organs in the body)
- → Srotas related Hetus (Etiological factors related to vitiation of channels in the body)
- → Hridroga as Upadrava(Heart disease as complication)
- → Udavartajanya Hridroga(Heart diseases due to suppression of urges)
- → Chikitsa Karma Vyapad(Complication of incorrect treatment)

Vegavarodha (Suppression of urges)	Lakshana (Symptoms)	Reference
Adhovat(Flatus)	Hridgada(Hrid-Heart, Gada-Disease)	A.H.Su 4/2
Shakrut(Defecation)	Hridayasya Uparodha (Obstruction)	A.H.Su 4/4
Udgar(Belching)	Hrid Vibandha(Impediment at Heart region)	A.H.Su 4/9
Trishna nigraha(Thirst)	Hridgada (Heart diseases)	A.H.Su 4/11
Kasa(Cough)	Hrid amaya (Heart diseases)	A.H.Su 4/14
Shrama Shwas	Hridroga (Heart diseases)	A.H.Su 4/15
(Exercise induced breathlessness)		
Ashru(Tears)	Hridruka (Chest pain)	A.H.Su 4/17
Shukra(Eructation)	Hrid Vyatha (Pain)	A.H.Su 4/20

Sr No	Hetu	Charak	Sushrut	M.N.	Y <b>.</b> R.	A.S/ A.H
1	Vyayam(Exercise)	+	-	-	-	-
2	Tikshana Dravya(Intense hot food)	+	-	-	-	-
3	Ativirechana(Excessive purgation)	+	-	-	-	-
4	Chinta(Stress)	+	-	+	+	-
5	Bhaya(Fear)	+	-	-	-	-
6	Trasa( Anxiety/Mental irritation)	+	-	-	-	-
7	Gadatichara(Treatment abuse)	+	-	-	-	-
8	Chardi(Vomiting)	+	-	-	-	-
9	Ama(Toxic material of indigestion)	+	-	-	-	-
10	Sandharan(Suppression of urges)	+	+	+	+	+
11	Karshana(Emaciation)	+	-		-	+
12	Aghat(External injury)	-	+	+	+	-
13	Ushna Dravya(Foods hot in nature)	-	+	+	+	-
14	Ruksha Dravya(Dry food stuff)	-	+	-	-	-
15	Viruddhashan(Incompatible food stuff)	-	+	-	-	-
16	Adhyashan(Excessive food consumption)	-	+	-	-	-
17	Sajirnabhojan(Indigesion->Food consumption)	-	+	-	-	-
18	Asatmya(Incompatible food stuff)	-	+	-	-	-
19	Atibhojana(Excessive food consumption)	-	+	-	-	-
20	Atiguru(Food heavy to digest)	-	-	+	+	+
21	Amlapadartha( Sour food)	-	-	+	+	-
22	Kashayarasa(Astringent food)	-	-	+	+	-
23	Tiktarasa(Bitter food )	-	-	+	+	-
24	Atishrama(Excess of heavy work)	-	-	+	+	-
25	Atimaithuna(Excess of Coitus)	-	-	+	+	-
26	Udavarta(Suppression of urges)	+	-	-	-	-

### Samanya Hetu Of Hridroga (General Etiological Factors)

27	Ajirna(Indigesion)	-	-	-	-	+
28	Vyayam(Exercise) after food	-	-	-	-	+
29	Shodhan snehan swedan(Oliation after Panchakarma)	-	-	-	-	+
30	Shodhanottar Vidahi ahar(Spicy food after	-	-	-	-	+
	Panchakarma)					
31	Diwaswap(Nap during day time)	+	-	-	-	-

**Vishesh Hetu( Specific Causative Factors):** Under this type we will consider hetus described in the Hridroga chapters in the classical texts.

"Vegaghatoshnarukshannairatimatropasevitaihi | Viruddhadhyashanjeernairasatmaishchapiati bhojanaihi ||"Sushrut Uttartantra 45/3

"Vyayamteekshnaativirekabastichintabhayatrasgad atichara | Chardyamsandharanakarshanani hridroga katruni tatha abhighataha ||" Charak chikitsasthan 26/7

"Tesham gulmanidanoktaihi samutthanaishcha sambhava | Vaten shulyate atyartha tudyate sfutateeva cha ||" Ashtang hridaynidansthan 5/39

"Atyushnagurvanna kashayatikta shramabhighatadhyashan prasangaihi I Sachintanairvegavidhaaranaishcha hridamayaha panchavidha pradishtaha II" Madhav nidan 29 Charaka in Sutrasthana 17 has mentioned hetus according to type of hridroga-

## Vataj Hridroga:

"Shokopavasvyayamrukshashushkalpabhojanaihi | Vayuravishya hridayam janayutyuttamam rujam ||"

## Pittaj Hridroga:

"Ushnamla lavankshar katukajeerna bhojanaihi | Madya krodhatapaishchashu------- ||"

## Kaphaj Hridroga:

"Atyadanam gurusnigdham achintanam acheshtanam | Nidrasukham chabhyadhikam kapha hridrogakaranam ||" **Sannipatika Hridroga :** "Hetulakshanasamsargata uchyate sannipatikaha |" Krumij Hridroga-"Tridoshe tu Hridroge yo duratma nishevate | Tilakshira gudadeeni ---- ||"

	Charak	Sushrut	A.S	A.H	M.N
f hot food stuff)	+	+	-	-	+
consumption of dry food stuff)	+	+	-	-	-
consumption of dry food stuff)	+	-	-	-	-
umption of astringent food stuff)	-	-	-	-	+
ption of bitter food stuff)	-	-	-	-	+
ion of sour food stuff)	+	-	-	-	-
tion of salty food stuff)	+	-	-	-	-
od stuff)	+	-	-	-	-
food material)	+	-	-	-	-
ood consumption)	+	+	-	-	-
le food stuff)	-	+	+	+	-
sumption)	-	+	-	-	+
d consumption)	+	+	-	-	-
food stuff)	-	+	-	-	-
	d consumption) food stuff)				

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15	Upavas(Fasting)	+	-	-	-	-
16	Alpabhojan(Consumption of less quantity of food)	+	-	-	-	-
17	Gurubhojan(Food stuff heavy for digestion)	+	-	-	-	+
18	Snigdhanna Sevan(Oily food)	+	-	-	-	-
19	Tilakshirgudadisevan(Sesame,milk,jiggery)	+	-	-	-	-
	Bubhukshit avastha shitambu sevan(Consumption of cold water					
20	while hungry)	-	-	+	+	-
	VyadhiKarshit →Aharsevan (consumption of excess of food					
21	while emaciated due to disease)	-	-	+	+	-
22	Bhojanottar Kshubdha(Heavy work after food intake)	-	-	+	+	-
23	Atimadyapan(Alcohol abuse)	+	-	-	-	-
В	VIHAR HETU					
24	Vega dharan(Suppression of urges)	-	+	+	+	+
25	Chardi Udiran(Suppression of vomiting)	-	-	+	+	-
26	Ativyayam(Excess of exercise)	+	-	-	-	-
27	Achesta(Lavish lifestyle)	+	-	-	-	-
28	Ati shram(Excess physical work)	-	-	-	-	+
29	Ati nidra(Excess of sleep)	+	-	-	-	-
30	Atap Sevan( Over sun exposure)	+	-	-	-	-
С	Chikitsa Vishesh HETU					_
31	Karmatichar(Treatment abuse)	+	-	-	-	-
32	Gadatichar(Complication of treatment)	+	-	-	-	-
	Sneha Swedan Virahit Shodhan(Panchakarma without prior					
33	karmas like oliation))		-	+	+	-
34	Teeksha Virechan Basti(Strong purgation & enema)	+	-	-	-	-
D	MANAS HETU				•	
35	Chinta (Stress)	+	-	-	-	+
36	Bhaya (Fear)	+	-	-	-	-
37	Trasa(Anxiety)	+	-	-	-	-
38	Krodha(Anger)	+	-	-	-	-
39	Shok (Depression)	+	-	-	-	-
40	Achintan (Lavish lifestyle)	+	-	-	-	-
E	AGANTU		•			
41	Abhighata(External injury)	+	-	-	-	+

**Material & Methods:** 40 patients suffering from Cardiovascular diseases.

<u>Inclusion Criteria:</u> Patients of Hridroga vyadhi according to Ayurvedic textual criteria.

Age group:-Above 40 years; irrespective of sex, religion, economic status, marital status, occupation.

Exclusion Criteria : 1. Terminally ill patients with multiple diseases. 2. Patients who need emergency medication. 3. Patients affected with HIV, Tuberculosis, and Malignancy were excluded.

Every patient was examined clinically according to standard case record format. Prior informed written consent was taken from each and every patient. Detailed history of Hetus was taken with the help of specially designed case record format.

Sr.No.	Hetu	Percentage	Sr.No.	Hetu	Percentage	
	(Ahar)			(Ahar)		
1	Madhur rasa	30%	14	Snigdhahar	37%	
2	Amla rasa	33%	15	Ajirnashan	44%	
3	Lavan rasa	42%	16	Adhyashan	21%	
4	Katu rasa	88%	17	viruddhahar	57%	
5	Tikta rasa	29%	18	Vidahi	51%	
6	Kashaya rasa	16%	19	Pramitashan	49%	
7	Atiushna	40%	20	Paryushit	56%	
8	Ruksha	56%	21	Madyapan	23%	
9	Shushka	33%	22	Dadhisevan	33%	
10	Alpa	42%	23	Ushapan	14%	
11	Upvas/Langhan	26%	24	Tila	0%	
12	Guruahar	43%	25	Guda	2%	
13	Sheet	12%	26	Dugdha	16%	
Sr.No.	Hetu(Vihar)	Percentage	Sr.No.	Hetu(Vihar)	Percentage	
L	Avyayam	74%	6	Ekasthanasan	23%	
2	Ativyayam	14%	7	Atapsevan	14%	
3	Achankraman	72%	8	Acheshta	21%	
5 1	Atichankraman	14%	9	Divaswap	23%	
+ 5	Atishram	23%	10	Nidradhikya	16%	
,	Atisiiiaiii	2370	10	Магаанкуа	1076	
r.No.	Vegavarodh	Percentage	Sr.No.	Vegavarodh	Percentage	
L	Mala	70%	4	Ashru	5%	
2	Mutra	77%	5	Nidra	2%	
3	Apan	44%	6	Kshudha	2%	
		-	-			
Sr.No.	Manas Hetu	Percentage	Sr.No.	Manas Hetu	Percentage	
1	Chinta	91%	4	Shoka	40%	
2	Achinta	2%	5	Khinnata	35%	
3	Krodha	56%	6	Bhaya	19%	
		-				
Sr.No.	Vyasan hetu	Percentage	Sr.No.	Vyasan hetu	Percentage	
1	Теа	65%	6	Smoking	21%	
2	Coffee	22%	7	Bidi	12%	
3	Alcohol	30%	8	Pan	7%	
4	Tobacco	35%	9	Supari	5%	
5	Mishri	21%	10	Tadi	7%	
	ons : Classically men	•		Snigdhahar sevan P va		
factors like Viruddhahar (57%), Guruahar(43%),				ahar P value is 0.010		
-	har (37%), Katu rasa(88		-	factors have correlation	n with Hridroga.	
Kashay	rasa(16%),Paryush					
	n(74%), Achankraman(		-	In Viharaj hetus Avyay		
-	56%), Madyapan(30%).			Atichankramana have P value 0.050 both		
ho not	ionte In Abariva botue	Tikto raca cover		value loce than 0 OE the	aroforo both playe	

## **Observations:**

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the patients. In Ahariya hetus Tikta rasa sevan P value is 0.010 and Kashay rasa P value is 0.005,

value less than 0.05 therefore both plays important

role in the development of disease.

In Vyasan hetu Tea (65%), Alcohol(30%), Smoking(21%), Tobacco(35%) are vyasan hetus found in patients.

In Vataja Hridroga etiological factors found are excessive Katu rasa, Tikta, Kashay rasa sevan, Ruksha ahar, Shushka ahar, Alpahar, Ativyayam, Atichankraman, Atishram, Vegavarodh, Chinta, Shoka, and Bhaya.

In Pittaj Hridroga etiological factors found are excessive Katu rasa, Amla rasa, Lavan rasa sevan, Viruddhahar, Vidahi ahar, Atiushna ahar, Dadhisevan, Madyapan, Atapsevan and Krodha. In Kaphaj Hridroga etiological factors found are excessive Madhur rasa, Guru ahar, Sheet ahar, Snigdha ahar sevan, Avyayam, Achankraman, Eksthanasan and Nidradhikya.

**Conclusion:** This study confirms presence of classical causative factors of Hridroga in CVD patients. In Ahariya hetus Mamsashan, Viruddhahar, Dadhisevan and Paryushit ahar is seen in either of the patients. Katu rasa sevan is seen in most of the patients followed by Ushna gunatmak ahar, Rukshahar, Alpahar, Madhur rasa, Snigdhahar & Tikta rasa Amongst Ahariya hetu Tikta rasa, Kashay rasa, Snigdhahar, Paryushit ahar have correlation with Hridroga (P<0.05).

In Viharaj hetus Avyayam, Achankraman, Atishram are the commonly found viharaj hetu. Mala, Mutra, Apan Vegavarodh is seen in number of the patients. Amongst Viharaj hetus Avyayam, Atichankramana have correlation with Hridroga (P<0.05).

In Manas hetu Chinta is found in number of the patients followed by Shoka and Krodha. Manovaha srotodushti is seen in all of the patients. In Vyasan hetu Tea, Alcohol, Smoking, Tobacco are vyasan hetus found in number of patients.

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