ISSN: 2322 - 0902 (P) ISSN: 2322 - 0910 (0)



## **Review Article**

## INVOLVEMENT OF DOSHAS IN ACID PEPTIC DISEASE - A LITERARY REVIEW

# Lini Grispin G1\*, Resmi B

\*1PG Scholar, 2Professor, Department of Samhita, Samskrita and Sidhanta, Government Ayurveda College, Thiruvananthapuram, India.

#### Article info

## Article History:

Received: 21-09-2021 Revised: 28-09-2021 Accepted: 20-10-2021 Published: 20-11-2021

#### **KEYWORDS:**

Acid peptic disease, Doshas, Amlapitta.

## **ABSTRACT**

Doshas represent physiological activities going on continuously in our body. They form the elementary basis of living body along with *Dhatus* and *Malas*. A healthy state of body is maintained by the normal physiological equilibrium between Tridoshas. Any vitiation occurring to one among them can result in disequilibrium between Doshas and hence result in diseases. In the process of disease manifestation, not a single Dosha but all the three Doshas can get involved in varying degrees based on the Nidanas. The Doshas get aggravated due to various causes and produce different diseases by locating itself in various body parts. Therefore, one should understand a disease after examining the characteristics of a disease, its regional alterations and involvement of *Doshadi nidanas*. The literary review reveals that Acid Peptic Disease has more similarity to Amlapittta and all the three *Doshas* are involved in the manifestation of the disease. Vitiation of *Pachaka pitta*, Prana vayu, Samana vayu, Apana vayu and Kledaka kapha are evident and these are responsible for the manifestation of all the four diseases considered here viz. GERD, Gastritis, Gastric ulcer and Duodenal ulcer.

## INTRODUCTION

Ayurveda is the ancient system of medicine which aims in the maintenance and restoration of health of individuals. It has its own scientific way of explaining theories and treatment modalities. This life science explains human body as well as diseases in terms of Doshas, Dooshyas, Malas etc, prime among them being Doshas. Any disharmony between the Doshas can affect the health of individual and is reflected in all diseases. Understanding the Dosha vitiation in diseases can help unveil the pathology behind the disease and intervene successfully in curing it. Since Acid Peptic Disease is showing increased prevalence, this disease is taken for the present study to understand the *doshas* involved in its manifestation.

Acid peptic disease is a collective term used to include many conditions such as Gastro Esophageal Reflux Disease (GERD), Gastritis, Gastric ulcer, Duodenal ulcer, Esophageal ulcer, Zollinger Ellison Syndrome (ZES) and Meckel's diverticular ulcer.1

Access this article online				
Quick Response Code				
	https://doi.org/10.47070/ijapr.v9i10.2087			
	Published by Mahadev Publications (Regd.) publication licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0)			

The first four diseases are more common among this. The common symptoms of Acid Peptic Disease include abdominal pain, nausea, heart burn, regurgitation, vomiting, loss of appetite, weight loss etc. These conditions are common in clinical practice and creates great discomfort in daily and social activities of the affected individuals. The prevalence of Acid peptic Disease is about 25-35% of the general population and their cost in terms of health care resource is huge.

## **MATERIALS AND METHODS**

Literary review from Ayurvedic classics of diseases having symptoms similar to Acid peptic Diseases were done.

# Diseases in Ayurvedic classics with symptoms similar to acid peptic disease

Though an exact equivalent cannot be seen in Ayurvedic classical texts which could exactly be correlated to Acid Peptic Disease, certain diseases which has similar symptoms are seen in Amlapitta, Annadravasoola, Parinamasoola etc.

# **Amlapitta**

Amlapitta as the name suggests, is a disease caused by the Pitta when it attains excessive Amlata. *Amlata* is one of the normal properties of *Pitta* and in the Prakupitavastha increased Amlata is seen.

Madhukosha commentary describes Amlapitta as the Pitta that attains increased Amlata due to Vidaha.<sup>[2]</sup> Chakrapani Dutta also explains Amlapitta as the Pitta that has increased amla property.<sup>[3]</sup>

The disease *Amlapitta* is not seen described in detail in *Brihatrayis* except mentioning it as a symptom among other diseases like:

- Amlapitta is manifested when the indigested food which is compared to food toxin gets associated with Pitta.<sup>[4]</sup>
- ➤ While mentioning the benefits of milk, it is stated to be beneficial in the treatment of *Amlapitta*.<sup>[5]</sup>
- ➤ While discussing *Agryas*, *Kulatha* is said to be a substance that is prime among those causing *Amlapitta*.<sup>[6]</sup>
- ➤ While discussing the diseases caused by excessive use of saline substances, *Amlapitta* manifests.<sup>[7]</sup>
- ➤ *Amlapitta* is mentioned as one among the diseases caused due to the intake of incompatible foods.<sup>[8]</sup>
- ➤ Rajamasha is said to have Amlapitta alleviating properties.<sup>[9]</sup>
- ➤ While mentioning the benefits of *Mahatiktakaghrita*, it is said to pacify *Amlapitta*.<sup>[10]</sup>
- While describing the properties of Kamsaharitaki, it is said to possess Amlapittahara property.
- Susruthacharya mentions a disease Amlika that is caused by the excessive use of saline taste on which Dalhana comments it as a disease with sour eructuations.<sup>[12]</sup>
- While discussing the symptoms of Paittika hridroga by Vagbhatacharya and Pittaja nantmajavyadhi in Susruta samhita, a condition called Amlaka is mentioned which can be correlated to Amlapitta.

Unlike *Brihatrayis*, it is well described with its etiology, symptomatology and treatment in other

Ayurvedic literatures like *Lakhutrayis*, *Kashyapa* samhita, *Gadanigraha*, *Bhavaprakasha*, *Yogaratnakara*, *Vangasena Samhita* etc. *Kashyapa Samhita* is the first text available to describe the disease *amlapitta* separately.

# **Etiology**

Since the disease is related very much to food intake and digestion, the etiological factors can be discussed as- based on factors related to food and those not related to food.

Factors related to food- Intake of incompatible foods, food intake before the previously taken food is digested, *Amatva*, accumulation of *Ama*, food made with grain flour, improperly fermented drinks, unboiled milk, heavy and moistening foods, excess intake of too hot, unctuous, dry, sour and liquid foods, intake of molasses, other sugar cane products, horse gram, fried grains, wild growing rice, parched rice, drinking water in between food, eating stale food, [13] intake of unhygienic food, foods causing burning sensation and food and drinks causing vitiation of *Pitta*.[14]

Others- Suppression of natural urges, sleeping after repeated food intake, excess bath, bathing by immersion in water like in tub or water bodies.<sup>[15]</sup>

## **Pathogenesis**

Resorting to the above etiological factors causes vitiation of *Vatadi doshas* causing diminution of body heat and digestive power and whatever eaten by the person gets acidified in the stomach due to improper digestion. If due to greediness one consumes food in this indigested state, it leads to the manifestation of *Amlapitta* as if the milk poured into undried curdpot becomes inspissated and sour. Due to this, *Rasadhatu* too gets *Amlata* and whatever is further intaken also attains *Amlata* thus producing the disease *Amlapitta*.<sup>[16]</sup>

**Clinical features**Clinical features of *Amlapitta* according to various texts are:

Table 1: Clinical features of Amlapitta

Clinical features	M N	BP	G N	KS	H S	V S	Y R
Indigestion	+	+	+	-	-	+	+
Fatigue	+	+	+	+	-	+	+
Nausea	+	+	+		-	+	+
Eructuations	-	-	-	+	-	-	-
Astringent eructuations	+	+	+	-	+	+	+
Sour eructuations	+	+	+	+	-	+	+
Heaviness	+	+	+	+	-	+	+
Burning sensation in heart	+	+	+	-	+	+	+
Burning sensation in throat	+	+	+	+	-	+	+
Burning sensation in chest	-	-	-	+	-	-	-

Anorexia	-	-	-	-	-	-	-
Head ache	-	-	-	+	+	-	-
Acidic hiccup	-	-	-	-	+	-	-
Diarrhea	-	-	-	+	-	-	-
Pain in cardiac region	-	-	-	+	-	-	-
Fullness of abdomen	-	-	-	+	-	-	-
Borborygmus	-	-	-	+	-	-	-
Horripilations	-	-	-	+	-	-	-

## Classification of Amlapitta

Amlapitta is classified in the following two ways

- 1. Based on the direction of manifestation *Urdhwaga* amlapitta and *Adhoga* amlapitta.
- 2. Based on the involvement of *Doshas Vatika, Paittika* and *Kaphaja* in *Kashyapa samhita*; and into three as *Sanilam, Sanilakapham* and *Sakapham* in *Lakhutrayis* and *Gadanigraha*.

#### **Parinamasoola**

The word *Parinamasoola* is used for disease with *Soola* (piercing) type of pain during digestion of food. The word *Parinama* means transformation. Here, transformation of food implies digestion in the *Koshta*. *Soola* implies pain produced as if being pierced by a sharp weapon. Hence *Parinamasoola* refers to the colicky pain produced during the digestion of the ingested food. It is also called as *Parinamaja soola*, *Annadrava soola*, *Pakti soola*, *Mahagada* and *Annavidahaja soola*. [17]

## **Etiopathogenesis**

*Vata* vitiation is the prime cause of *parinamasoola*. The *Vata* getting aggravated by its own aggravating factors gets enveloped by *Pitta* and *Kapha* near it, thus becoming powerful enough to cause colic pain during the period of digestion and thus called *Parinama soola*.<sup>[18]</sup>

#### Clinical features

The *Kapha* dislodged from its site in association with *Pitta* along with *Vata* produces colic pain in the abdomen, flanks, umbilical region, urinary bladder, intermammary area, sacral region and all over the body.

This colic subsides after taking meals, on vomiting and on digestion of the intaken food. It exacerbates on intake of cooked *Sali, Vrihi* grains etc.<sup>[19]</sup>

## Classification

Pariamasoola is classified into eight types as-Vatika, Paittika, Kaphaja, Samsrishtaja sannipataja and Amaja parinama soola. Whereas, it is classified into only seven types with the exception of Amaja parinama soola in literatures like Madhava Nidana, Yoga Ratnakara, Vangasena Samhita and Gada Nigraha.

## Annadravasoola

This is a digestive disorder characterised by colic that persists always- when food is ingested, during its digestion, or before its digestion. This colic manifests always irrespective of whether conducive food or not is taken, or food is taken or not, or with any other conditions.<sup>[20]</sup>

## Other diseases with similar symptoms

There are also certain other diseases which has some of the symptoms similar to those of Acid peptic disease like *Grahani*, *Gulma*, *Chardi* and *Shoola*.

In the *Purvarupa* of *Grahani* certain symptoms like acid regurgitation, increased salivation, loss of appetite, anorexia, vomiting, abdominal fullness, improper digestion are similar to those of Acid Peptic Disease. When the digestive power is weak, the improperly digested food moves upwards and downwards; when it moves downwards it is termed as Grahani. It could be assumed that the upward movement of this *Vidagdhahara* is seen in Acid Peptic Disease. Certain symptoms of Paittika grahani like Amla udgara (acid regurgitation), Hrit kanta daha (burning sensation in cardiac region and throat) and Aruchi (anorexia) are also seen in Acid Peptic Disease. Symptoms of Kaphaja grahani like difficulty in digestion, Hrillasa, Chardi, Arochaka, Asyopadeha and Shteevana also are seen in Acid Peptic Disease.

Burning sensation in abdomen, cardiac region, chest, and feeling of acidic fumes coming through throat along with acid regurgitation are the features of *paittika gulma* which are similar to those of Acid Peptic Disease.

Symptoms of *Pittaja shoola* which are similar to those of symptoms mentioned in Acid Peptic Disease are burning sensation and pain in umbilical region that increase on *Vidaha kala*. Similar symptoms in *Kaphaja shoola* are *Hrillasa, Aruchi, Praseka, Shoola* in *Amasaya* that increase immediately after the ingestion of food. Similar symptoms in *Kaphapittaja shoola* are *shoola* in the region between *Hrit* and *Nabhi*. Similar symptoms seen in *Amaja shoola* are *Atopa, Hrillasa, Chardi, Gaurava, Anaha, Kapha praseka*.

H pylori is attributed to be a proven cause for the causation of Gastritis, Gastric ulcer and Duodenal ulcer and this could be correlated with *Amasayaja krimi*. Most of the symptoms of *Amashayaja krimi* like *Hrillasa, Asyasamsravana, Arochaka, Avipaka, Anaha, Chardi* and *Karshya* are seen in *Amashayaja krimi*.

# Analysis of symptoms of acid peptic disease based on *Doshas*

The cardinal symptoms of Gastro Esophageal Reflux Disease are heart burns and acidic regurgitation. Associated symptoms include acidic taste in mouth, water brash, chest pain, sore throat, nausea, dry cough, gum inflammations and mouth ulcers.

Symptoms of Gastritis are anorexia, nausea, vomiting, hemetemesis, malena, abdominal pain, bloating, burping, indigestion, hiccups, weight loss, diarrhea, early satiety and flatulence.

Symptoms of Gastric ulcer are abdominal pain, anorexia, indigestion, nausea, vomiting, bloating, early satiety, heart burns, acid reflux, burping, hemetemesis, malena, weight loss, fatty food intolerance and pain on food intake (within an hour of food intake).

Symptoms of Duodenal ulcer are abdominal pain, anorexia, indigestion, nausea, vomiting, bloating, heart burns, acid reflux, burping, hemetemesis, malena, weight gain fatty food intolerance and pain after digestion (after 2-3 hours of food intake).

The symptoms of the diseases in Acid Peptic Disease are more or less overlapping. Presenting symptoms are analysed in terms of involvement of dosha in the following way.

Table 2: Analysis of symptoms of Acid Peptic Disease

Symptoms	Similar symptom in Ayurveda	Predominant dosha
Heartburns	Hrit daha	Pitta vridhi
Acid regurgitation	Amlodgara	Pitta vridhi
Acidic taste in mouth	Amla rasata	Pitta vridhi
Waterbrash	Praseka	Kapha vridhi
Chest pain	Hrit shoola	Vata vridhi
Sore throat	Kanda paka	Pitta vridhi
Nausea	Hrillas <mark>a</mark>	Kapha vridhi
Dry cough	Sushka kasa	Vata vridhi
Gum inflammations	Dantam <mark>ool</mark> a paka	Pitta vridhi
Mouth ulcers	Asya paka 1	Pitta vridhi
Anorexia	Arochaka	Kapha vridhi
Vomiting	Chardi	Vata vridhi
Haemetemesis	Rakta chardi	Pitta vridhi
Malena	Raktatisara	Pitta vridhi
Abdominal pain	Shoola	Vata vridhi
Bloating	Adhmana	Vata vridhi
Burping	Udgara	Vata vridhi
Indigestion	Avipaka	Kapha vridhi
Hiccups	Hidhma	Vata vridhi
Weight loss	Karshya	Vata vridhi
Diarrhoea	Atisara	Vata vridhi
Early satiety	Tripti akshamatva	Vata vridhi
Flatulence	Adhovata	Vata vridhi
Haemetemesis	Rakta chardi	Pitta vridhi
Malena	Raktatisara	Pitta vridhi
Fatty food intolerance	Avipaka	Kapha vridhi
Pain on food intake	Shoola	Kapha vridhi
Pain after digestion	Shoola	Vata vridhi

Analysing these symptoms, it is to be understood that the feature of vitiation of all the three doshas can be seen in Acid Peptic Disease

## Possible Srotases vitiated in acid peptic disease

Since the disease shows symptoms relating to *Koshta* and the symptoms described above points out that the possible *Srotases* which may get vitiated in this disease are *Annavahasrotas*, *Rasavahasrotas* and *Pureeshayahasrotas*.

The symptoms of vitiated *Annavaha srotas* seen in Acid Peptic Disease are disinclination for food. indigestion and anorexia. vomiting. Rasavaha Srotodushti lakshanas like dislike for food, anorexia, nausea, anemia, fatigue and emaciation are seen in Acid peptic Disease. Altered bowel habits like constipation and diarrhoea are seen in Acid peptic correlated Disease which mav be purishavahasrotodushti.

## **DISCUSSION AND RESULTS**

As per Ayurvedic classics, it is not possible to name all the diseases and one need not be ashamed of this. Mere naming of diseases will not serve the purpose of treatment and naming is adopted only for the ease of distinguishing diseases. Instead, one should try to analyse the diseases based on available information like *Vikara prakrti* (cause of diseases), *Vikara adhishtana* (site of manifestation of the disease), *Vikara hetu visesha* (diversity of causes), altogether named as the *Trividhabodhya sangraha*. Here, *Vikara prakriti* is the *Vatadi doshas*, *Adhishtana* is the gastro intestinal tract and *Hetu visesha* includes the causes for vitiation of *Doshas*.

Though *Tridoshas* are all pervading in the body, they have their predominance with respect to function as well as structure in different parts of the body. Since Acid Peptic Disease is related to the digestive system, the *Doshas* predominant in this part of the body can have its influence in manifestation of the disease. Digestion of food is the main function of stomach. Even though all the three *Doshas* are involved in the process of digestion, this function is mainly carried out by pitta among the three *Doshas*, especially *Pachaka pitta*. Pachaka pitta is devoid of Dravatva and hence is thereby capable of digesting Susruthacharya says, Jataragni is the Pachaka pitta itself, Agni is dependent on Pitta and any vitiation caused to it is due to vitiation of Pitta and not directly. And this *Agni* is protected by *Prana vayu, Samana vayu* and Apanavayu. The manifested symptoms with respect to Vata may be due to the derangement of Prana vayu, Samana vayu and Apana vayu; and the symptoms with respect to Kapha may be due to derangement of Kledaka kapha.

Kledaka kapha moistens the food thereby helps in disintegrating it for digestion. The Kapha kopa nidanas may also cause Dushti to Kledaka kapha

thereby making the food more *Kledabahula*, which causes *Avipaka* and delayed digestion. This also accounts for *Suktapaka*, *Amlata* and increased *Vidahitwa*.

#### CONCLUSION

Acid Peptic Disease as such is not mentioned in Ayurvedic classics. In Ayurveda all the unnamed diseases should be understood in terms of characteristics of the disease, site of its manifestation and causes. *Dosha* vitiation is considered as the sole causative factor of diseases in Ayurveda. So observing the *Doshas* involved in the disease helps in understanding Acid Peptic Disease in Ayurvedic perspective and treat it effectively.

The above literary review shows that Acid Peptic Disease has more similarity to Amlapitta and the most prevalent among them viz., Gastro Esophageal Reflux Disease, Gastritis, Gastric ulcer and Duodenal ulcer can be understood in terms *Amlapitta*. Equivalent symptoms of the selected Acid Peptic Disease in terms of Ayurveda were taken to understand the Dosha involvement. It could be seen that all the three *Doshas* are vitiated in Acid Peptic Disease, and in varving degrees. Considering Vatadushti; Pranavayu, Samanavayu and Apanavayu seems to be vitiated. Considering Pitta signs of Pachaka pitta vitiation is evident and considering Kapha; Kledaka kapha vitiation is evident. So *Dosha* vitiation in the disease with respect to individual Dosha variations and associated conditions should be observed well for framing an effective treatment protocol.

## REFERENCES

- 1. https://www.nhp.gov.i/kunmam-(Acid-Peptic-Disease) mtl.
- 2. P. Himasagara Chandra Murthy, Madhavanidanam of Sri Madhavakara Sanskrit text and madhukosa commentary with English translation, 3<sup>rd</sup> edition, chapter 51, verse 1 Chowkhamba Sanskrit Series Office, Varanasi, 2013.
- 3. Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by Chakrapani, Chikitsasthana, chapter 15, verse 47, Chaukhambha surabharati prakashan, Varanasi, 2017.
- Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by Chakrapani, Chikitsasthana, chapter 15, verse 46, Chaukhambha surabharati prakashan, Varanasi, 2017.
- Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by Chakrapani, Sutrasthana, chapter 1, verse 110, Chaukhambha surabharati prakashan, Varanasi, 2017.
- 6. Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by

- Chakrapani, Sutrasthana, chapter 25, verse 40, Chaukhambha surabharati prakashan, Varanasi, 2017.
- 7. Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by Chakrapani, Sutrasthana, chapter 26, verse 43, Chaukhambha surabharati prakashan, Varanasi, 2017.
- 8. Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by Chakrapani, Sutrasthana, chapter 26, verse 103, Chaukhambha surabharati prakashan, Varanasi, 2017.
- 9. Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by Chakrapani, Sutrasthana, chapter 27, verse 25, Chaukhambha surabharati prakashan, Varanasi, 2017.
- 10. Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by Chakrapani, Chikitsasthana, chapter 7, verse 147, Chaukhambha surabharati prakashan, Varanasi, 2017.
- 11. Yadavji Trikamji Acharya, Charaka Samhita of Agnivesa with Ayurvedadipika commentary by Chakrapani, Chikitsasthana, chapter 12, verse 52, Chaukhambha surabharati prakashan, Varanasi, 2017.
- 12. P V Sharma, Susruta samhita with Nibandasangraha of Dalhanacharya, Sutrasthana, chapter 42, verse 9, Chaukhambha surabharati prakashan, Varanasi, 2017.

- Pandit Hemaraja Sharma, Kashyapa Samhita, Chikitsasthana, chapter 16, verses 3-5 Chaukhamba Sanskrit Series Office, Varanasi, 2008.
- 14. P. Himasagara Chandra Murthy, Madhavanidanam of Sri Madhavakara Sanskrit text and madhukosa commentary with English translation, 3<sup>rd</sup> edition, chapter 51, verse 1 Chowkhamba Sanskrit Series Office, Varanasi, 2013.
- 15. Pandit Hemaraja Sharma, Kashyapa Samhita, Chikitsasthana, chapter 16, verse 6, Chaukhamba Sanskrit Series Office, Varanasi, 2008.
- Pandit Hemaraja Sharma, Kashyapa Samhita, Chikitsasthana, chapter 16, verses 7-11, Chaukhamba Sanskrit Series Office, Varanasi, 2008.
- 17. 17.Tripathi Indradev and Tripathi Daya Shankar, Yogaretnakara, 3<sup>rd</sup> edition, Chapter 30, verses 5-6, Chowkhambha Sanskrit Series Office, Varanasi, 2009.
- 18. P. Himasagara Chandra Murthy, Madhavanidanam of Sri Madhavakara Sanskrit text and madhukosa commentary with English translation, 3<sup>rd</sup> edition, chapter 15, verse 16 Chowkhamba Sanskrit Series Office, Varanasi, 2013.
- 19. Tripathi Indradev and Tripathi Daya Shankar, Yogaretnakara, 3<sup>rd</sup> edition, Chapter 30, verses 2-4, Chowkhambha Sanskrit Series Office, Varanasi, 2009.
- 20. P. Himasagara Chandra Murthy, Madhavanidanam of Sri Madhavakara Sanskrit text and madhukosa commentary with English translation, 3<sup>rd</sup> edition, chapter 26, verses 21-22, Chowkhamba Sanskrit Series Office, Varanasi, 2013.

## Cite this article as:

Lini Grispin G, Resmi B. Involvement of Doshas in Acid Peptic Disease- A Literary Review. International Journal of Ayurveda and Pharma Research. 2021;9(10):104-109.

https://doi.org/10.47070/ijapr.v9i10.2087

Source of support: Nil, Conflict of interest: None Declared

# \*Address for correspondence Dr. Lini Grispin G

Department of Samhita, Samskrita and Sidhanta, Government Ayurveda College, Thiruvananthapuram.

Email: <u>linistalin2015@gmail.com</u> Mobile number - 9037511847

Disclaimer: IJAPR is solely owned by Mahadev Publications - dedicated to publish quality research, while every effort has been taken to verify the accuracy of the content published in our Journal. IJAPR cannot accept any responsibility or liability for the articles content which are published. The views expressed in articles by our contributing authors are not necessarily those of IJAPR editor or editorial board members.