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# A REVIEW ON ETIOPATHOLOGICAL STUDY OF ATISARA

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#### **ABSTRACT**

At present time, *Atisara* is the most common health problem which is caused by irregular and unhealthy dietary habits and lifestyle. In Ayurvedic texts, the causative factors of *Atisara* are classified as *Aharaja Nidana*, *Viharaja Nidana* and *Manasika Nidana*. *Atisara* means excessive flow (*Sarnam*) of watery stool (*Bahu Drava Mala*) through anus (*Gudamarga*). Nowadays the incidence of *Atisara* is increasing because people do not follow dietary regimens like *Ashta Ahara Vidhi Visheshayatana*, *Dwadash Ashana Vichara* and also daily regimen like *Dinacharya*, *Ritucharya* as explained in Ayurveda. The present article deals with *Nidana Panchatmaka* study of *Atisara* as described in literature and in order to cure the disease, it is important to understand the *Nidana Panchaka* of *Atisara*.

KEYWORDS: Atisara, Aharaja Nidana, Viharaja Nidana, Manasika Nidana, Ayurveda, Nidana Panchaka.

#### INTRODUCTION

Atisara is a condition, wherein watery stools are passed many times a day. The essential factor in this condition is the abnormally rapid passage of food materials through the Mahasrotasa. In Chikitsa Sthana, Acharya Charaka has given mythological description about the origin of the Atisara. In initial age, the sacrificial animals were actually released soon after the recitation of the sacrificial quotations, and these animals were not actually killed during the course of sacrifice, but after the period of Daksha Prajapati, when sacrificial rites were performed by the sons of Manu such as Narishvana, Nabhaga, Ikshwaku, Nriga, and Sharyati, the animals to be sacrificed during the performance of Yagya, with their own permission. Still later Prishadhra started sacrificing cows and bulls when other animals were not available for his long term sacrificial rites. On seeing this, the creatures went shocked and when in this afflicted mental state and consequent loss of Agni they ingested they killed cows and bulls, it caused Atisara due to heaviness, hotness, unsuitability and use of inauspicious substances. It can be concluded that Atisara originated initially from the sacrifice performed by Prishadhra. Most important factor in the pathogenesis of Atisara is Mandagni. Atisara is described as Diarrhoea in modern medical science, wherein watery stools passed in excess. The general symptoms associated with diarrhea include abdominal pain especially cramping, bloating, thirst, dehydration, fatigue and weakness etc. The World Health

Organization (WHO) estimates that there are more than 1000 million cases of acute diarrhea annually in developing countries, with 3–4 million deaths, half of these in infants and children. In developed countries, diarrhoea remains an important problem and the elderly are most vulnerable.

# Nidana (Etiology)

Nidana is the factor which disturbs the normal physiological functions of the body and is capable of manifesting diseases. The following factors are responsible for the causation of Atisara: -

# Aharaja Nidana (Dietetic Factors)

- Indulgence of food which are *Guru* (difficult to digest), *Ati Snigdha* (very fatty), *Ruksha* (dry), *Ushna* (hot), *Drava* (watery), *Sthula* (very hard), *Sheetal* (cold in potency),
- *Viruddhashana* (excessive consumption of food which contains in compatibles),
- Adhyashana (frequently taken of food in large quantities),
- Ajeerna (food which are not properly cooked),
- *Vishamashana* (eating more or less, or before or after proper time),
- Asatmya Bhojana (unaccustomed),
- Consumption of *Visha* (poison)
- Dushtambu Pana (drinking of polluted water),
- Ati Madya Pana (excess intake of alcoholic drinks).

# Viharaja Nidana (Behavioral Factors)

- Excess or improper administration of therapies like *Snehana* (oleation), *Swedana* (fomentation) etc.
- Changes in accustomed habits (*Satmya Viparyaya*) and seasonal features (*Ritu Viparyaya*),
- Ati Jala Krida (indulging too much in water sports),
- Vega Vighata (suppression of natural urges),

• Krimi Dosha (infestation of worms).

# Manasika Nidana (Psychological Factors)

- Bhaya (fear),
- Shoka (sorrow).

By these above causes Atisara develops in men.

# Vishishta Nidana according to Dosha

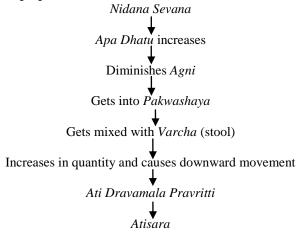
Vataja Atisara			
Aharaja Nidana	Viharaja Nidana	Manasika Nidana	
Ruksha (rough), Alpa (little), Pramita (deficient) Bhojana, Tikshna Madya Pana (strong alcohol).	Excessively exposure to <i>Vata</i> (strong wind) and <i>Atapa</i> (sun), <i>Ati Vyayam</i> (excessive physical exercise), <i>Ati Vyavaya</i> (excessive sexual intercourse), <i>Vegavarodha</i> (suppression of natural urges).	-	
PITTAJA ATISARA			
Aharaja Nidana	Viharaja Nidana	Manasika Nidana	
Amla (sour), Lavana (salty), Katu (pungent), Kshara (alkaline), Ushna (hot) and Tikshna (irritant) Ahara Sevana.	Constant exposure to <i>Agni</i> (fire), <i>Surya Santapa</i> (scorching sun) and <i>Ushna Marutopahata</i> (hot winds).	Psychological stressed with <i>Krodha</i> (anger) and <i>Irshya</i> (envy).	
KAPHAJA ATISARA			
Aharaja Nidana	Viharaja Nidana	Manasika Nidana	
Guru (heavy), Madhura (sweet), Sheeta (cold), Snigdha (unctuous) Ahara Sevana and over saturation himself.	Indulge in <i>Diva Swapna</i> (day sleep) and <i>Alasya</i> (sitting idle).	Achintayato (free from physical and mental tension).	
SANNIPATAJA ATISARA			
Aharaja Nidana	Viharaja Nidana	Manasika Nidana	
Ati Sheeta (Too Cold), Snigdha (Unctuous), Ruksha (rough), Ushna (hot), Guru (heavy), Khara (coarse), Kathina (hard), Bhojana, Vishama Bhojana (irregular meals), Viruddha and Asatmya Bhojana (intake of incompatible and unsuitable things), Abhojana (fasting), Kalatita Bhojana (delayed meals), Pradushta Madya & Jala pana (drinking of polluted alcohol & water), Ati Madyapana (over drinking of alcohol).	Samshodhana Pratikarmana (not undergoing elimination therapies as per seasons), Vishama Gamanat Upcharat (inappropriate administration of therapeutics), excessive exposure to Agni (fire), Aditya (sun), Pavana (strong wind) and Salila (water), Aswapna (no sleep) or Atiswapna (oversleep), Vega Dharana (suppression of urges), Ritu Viparyaya (seasonal perversations), Ayatha Bala Arambha (excessive physical exercise beyond once own physical strength), Vyadhi Karshanat (emaciation due to Krimi, Shosha, Jwara, Arsha & derangement of Agni).	Excessive exposure to <i>Bhaya</i> (fear <i>Shoka</i> (grief) and <i>Chittodwega</i> (anxiety).	
SHOKAJA ATISARA	Vilousia Ni Jana	Managha Nidana	
Aharaja Nidana	Viharaja Nidana	Manasika Nidana	
Less quantity of food ( <i>Alpa Ashana</i> ) is eaten due to grief ( <i>Shoka</i> ).	_	Shoka (grief)	
AMAJA ATISARA	1	1	
Aharaja Nidana	Viharaja Nidana	Manasika Nidana	
Due to <i>Amajirna</i>	1_		

# Samprapti (Pathogenesis)

# Samanya Samprapti

Due to consumption of above etiological factors *Apa Dhatu* (body fluids) greatly increases, diminishes the strength of *Agni* (digestive fire), gets mixed with *Varcha* (stool), and increase in quantity, causes downward movement (out of the body through the rectum) by the action of *Vata* leading to development of excess watery stool is known as *Atisara*.

#### Samprapti Chakra



#### Samprapti Ghataka

**Dosha** - Vata Pradhana Tridosha

**Dushya** - Rasa, Rakta, Mamsa, Meda, Mutra, Purisha

Adhishthana - Mahasrotasa

Srotasa - Annavaha, Purishavaha, Udakavaha Sroto Dushti - Atipravritti, Vimarga Gamana

#### Doshanusara Vishishta Samprapti

- 1. Vataja Atisara Due to Nidana Sevana, Vata gets aggravated and Agni (digestive fire) is diminished. In this state, the vitiated Vata carrying Mutra (urine) and Sweda (sweat) to the Purishashaya (colon), liquefies the Mala (stool) and thus causes Vataja Atisara.
- 2. Pittaja Atisara Due to Nidana Sevana, Pitta gets aggravated and suppresses the functions of Agni (digestive fire) because of Dravatwa Guna (fluidity) of Pitta and reaches the Purishashaya (colon) then breaks the stool due to Ushnatwa (heat), Dravatwa (fluidity) and Saratwa (mobility) and thus causes Pittaja Atisara.

The patient of *Pittaja Atisara* who is avoiding the treatment of *Atisara*, and indulges in the intake of *Pitta* vitiated foods and drinks, his *Pitta* gets aggravated severely, as a result *Rakta* gets vitiated quickly and manifests *Raktatisara*.

**3.** *Kaphaja Atisara* - Due to *Nidana Sevana*, *Kapha* gets aggravated, diminishes the *Agni* (digestive fire) by its *Guru* (heavy), *Madhura* (sweet), *Sheeta* (cold) and *Snigdha* (unctuous) nature, makes downward movement and reaches the *Purishashaya* (colon) and

- further due to its *Soumya Swabhava* (watery nature), it affects the colon with excessive fluid and thus causes *Kaphaja Atisara*.
- **4.** Sannipataja Atisara Due to above etiological factors all the three Doshas get vitiated and bring affliction in Agni which reach Pakwashaya (colon) and cause Sannipataja Atisara with signs and symptoms of all the three Doshas.
- 5. Shokaja Atisara In a person who is affected by grief of many kinds and eat less quantity of food, the force of the tears vitiates the digestive power of man and reaches the gastrointestinal tract which vitiates his Rakta (blood); then the blood mixes with the faeces and begins to move in the downward direction and passes the stool mixed with Rakta; thus Shokaja Atisara occurs.
- **6.** *Amaja Atisara* In persons whose food is not properly digested, the *Doshas* get increased by combining with undigested food, travel in wrong channels, vitiate the *Dhatus* and *Malas* and gives rise to *Amaja Atisara*.

#### **Purvarupa (Premonitory Symptoms)**

Purvarupa of Atisara are as follows:

- Pricking pain in the area of *Hridaya* (heart), *Nabhi* (umbilicus), *Payu* (rectum), *Udara* (lower abdomen) and *Kukshi* (flanks),
- *Gatravasada* (debility of the body),
- Anila Sannirodha (non-elimination of flatus),
- Vit Sanga (constipation),
- *Adhmana* (flatulence),
- Avipaka (indigestion).

#### Bheda (Types)

In Ayurvedic literature Atisara is classified into six types, are as follow:

C.C.	S.S.	A.H.	<i>M.N.</i>
Vataja	Vataja	Vataja	Vataja
Pittaja	Pittaja	Pittaja	Pittaja
Kaphaja	Kaphaja	Kaphaja	Kaphaja
Sannipataja	Sannipataja	Sannipataja	Sannipataja
Bhayaja	Shokaja	Bhayaja	Shokaja
Shokaja	Amaja	Shokaja	Amaja

According to Acharya Charaka Vataja, Pittaja, Kaphaja and Sannipataja are Nija types of Atisara and Bhayaja and Shokaja are Agantuja type of Atisara. Further he has classified Vataja Atisara into two types- Vataja Amatisara and Vataja Pakwatisara. Acharya Vagbhata has separately classified Atisara into two types i.e. Sama and Nirama. Acharya Sushruta has mentioned Amaja type of Atisara (diarrhea) instead of Bhayaja variety.

# **Rupa** (Clinical Features)

# 1. Vataja Atisara

No.	Rupa	C.S.	S.S.	A.H.	M.N.
	Symptoms of Mala (stool)				
1.	Ama Mala (undigested)- Vijjala (slimy), Vipluta (spreading), Avasadi (precipitating), painful with fishy odour and retention of urine and flatus etc.	+	-	-	-
2.	Pakwa Mala – Vibaddha (constipated), pain in waist, thigh, sacral region, knee back and sides, increased respiration etc.	+	-	-	-
3.	Shyava Varna (blackish in colour)	-	+	-	-
4.	Dagdha Gudabhasa (colour like burnt jaggery)	-	-	+	-
5.	Aruna Varna (slightly brown in colour)	-	-	-	+
6.	Frequently passes small amount of faeces ( <i>Alpa Varcha</i> ) often mixed with froth ( <i>Phena</i> ), dry in nature ( <i>Ruksha</i> ) and accompanied with pain ( <i>Shula</i> ) and sound ( <i>Sashabda</i> ).	+	+	+	+
7.	Mala is Grathit (nodular), Pichhila (slimy) and associated with Parikartika (cutting pain in anus)	+	-	+	-
	Other Symptoms				
8.	Udara Shula (pain in the abdomen)	+	+	+	+
9.	Sakta Mutra (retention of urine)	+	+	-	-
10.	Antra Kujana (intestinal gurglings)	-	+	-	-
11.	Strastapana (loss of tone in the anorectal regions)	+	+	-	-
12.	Feeling of tiredness in the <i>Kati</i> (waist), <i>Uru</i> (thigh) and <i>Jangh</i> (calf region)	+	+	-	-
13.	Shushkasya (dryness in mouth)	+	-	+	-
14.	Bhrashta Payu (anal prolapse)	+	+	+	-
15.	Hrishtaroma (horripilation)	+	-	+	-

# 2. Pitaja Atisara

No.	Rupa	C.S.	S.S.	A.H.	M.N.
	Symptoms of Mala (stool)				
1.	Haridra, Harita and Krishna or Asita Varna (yellow, green and	+		+	
1.	blackish in colour)		-	+	-
2.	Nila Varna (bluish in colour)	+	+	-	+
5.	Lohita Varna (slightly red in colour)	-	+	-	+
6.	Peeta Varna (yellowish in colour)	=-	+	+	+
7.	Associated with Rakta (blood) and Pitta	+	-	+	-
8.	Durgandhit (bad smell)	+	+	+	-
9.	Drava Rupa (liquid)	+	+	+	+
10.	Ushna (hot), Comes out with Vega (force), Mamsa Dhovan Vata		+	-	
10.	(resembles mutton wash) and Bhinna (broken)	-			-
	Other Symptoms				
11.	Trishna (thirst)	+	+	+	+
12.	Daha (burning sensation)	+	+	+	+
13.	Sweda (sweating)	+	-	+	-
14.	Murchha (fainting)	+	+	+	+
15.	Udar Shula (pain in abdomen)	+	-	+	-
16.	Guda Santapa & Paka (inflammation and suppuration in anus)	+	+	+	+
17.	Jwara (fever)	=	+	-	-

In *Raktatisara*, which is the forward stage of *Pittatisara*, patient suffers from *Trishna* (thirst), *Shula* (colic pain), *Vidaha* (burning sensation) and *Guda Paka* (inflammation of the ano-rectal region).

3. Kaphaja Atisara

No.	Rupa	C.S.	S.S.	A.H.	M.N.
	Symptoms of Mala (stool)				
1.	Sweta Varna (white in colour)	+	+	+	+
2.	Snigdha (unctuous), Pichhila (slimy) and Tantuvata (thready)	+	-	+	=
3.	Ama (undigested) and Guru (heavy) in nature	+	-	+	=
4.	Durgandhita or Visra Gandhi (bad smell)	+	-	+	+
5.	Mixed with Sleshma (mucous)	+	+	+	+
6.	Alpa & Muhurmuhu Pravritti	+	-	+	-
7.	Associated with Shula (pain) and Pravahika	+	-	+	-
8.	Sandra or Ghana (thick)	+	+	+	+
9.	Sheetal (cold)	-	-	-	+
10.	Krite Api Akrite Sangya or Vega Shanki (even after passing stools, he feels he has not evacuated stools)	+	+	+	-
11.	Ni-swana (without any sound)	-	+	-	-
	Other Symptoms				
12.	Heaviness in <i>Udara</i> (abdomen), <i>Guda</i> (anus), <i>Basti</i> (bladder) and <i>Vankshana</i> (groin region)	+	-	-	-
13.	Lomaharsha (horripilation)	+	+	+	+
14.	Utklesha (nausea)	+	+	+	-
15.	Nidra (over sleep)	+	+	+	-
16.	Alasya (idleness)	+	-	+	-
17.	Sadana (lassitude)	+	+	-	-
18.	Annadweshi (aversion of food)	+	+	+	-
19.	Tandra (stupor)	_	+	-	-
20.	Gaurava (feeling heaviness in body)	-	+	-	-

- **4.** Sannipatik Atisara It is characterized by Tandra (stupor), Moha (delusion), Sada (debility), Mukha Shosha (dryness of mouth), Vividha Varna Varcha (eliminates faeces of all colours), Trishna (thirst) and has the appearance of specific symptoms of all the Doshas.
- 5. Shokaja Atisara The stool passes in Shokaja Atisara is accompanied with Rakta (blood), the Rakta resembles Kakananti (Gunja Abrus precatorius) in colour (bright red) either mixed with stool or without stool, either with bad smell or without smell and faeces is eliminated with difficulty.
- **6.** *Amaja Atisara* In *Amaja Atisara* elimination of faeces of various colours, many times passes with difficulty.

Acharya Charaka has described two types of *Agantuja Atisara viz. Bhayaja* and *Shokaja*, which manifest due to mental factors like fear and anxiety. Their signs and symptoms are similar to those of *Vataja Atisara*.

#### Upashaya-Anupashaya

Upashaya means which gives pleasure to the person by the use of Aushadha (medicine), Ahara (diet) and Vihara (regimens). Their action may be directly against the cause, or to the disease itself or to both. Opposite to the Upashaya is called Anupashaya. The concept of Upashaya-Anupashaya is same as the concept of Pathya-Apathya because both deal with wholesome and unwholesome.

Type	Upashaya	Anupashaya
Aushadha	Kutaja (Holarrhena antidysenterica), Patha (Cissampelos	Triphala Churnai, Pancha Sakara Churna,
Ausnaana	pareira), Mustadi Yoga, Kalingadi Yoga etc.	Ichha Bhedi Rasa
	Old variety of <i>Shali</i> and <i>Sathi</i> rice Pulses of <i>Masoor</i> (red	Godhuma (wheat), Urada (split black gram),
Ahara	lentils), Arahara (split pigeon pea), Jamun (plum), Madhu	Yava (barley), Kushmanda (Pumpkin), Ikshu
	(honey), Yusha (vegetable soup), Bilwa Phala Majja etc.	(sugarcane), Draksha (Vitis vinifera)
		Swedana (fomentation), Rakta Mokshana (blood
Vihara	Vamana (vomiting), Langhana (fasting), Nidra (sleeping)	letting), Ratrijagaran (night awakening), Vega
		Dharan (suppression of natural urges)

# Sadhya-Asadhyata (Prognosis) Krichha Sadhya Lakshana

• Amaja Atisara is Krichha Sadhya in nature.

• Atisara (diarrhea) is said to be Krichha Sadhya when it is devoid of any complications and dhatudushti.

#### Asadhya Lakshana

- *Sannipataja Atisara* is *Asadhya* in *Bala* (young) and *Vriddha* (old persons).
- Shokaja Atisara is very difficult to treat.
- Patient passes stool appears like *Dadhi* (curd), *Ghrita* (ghee) etc. which is *Nila* (blue), *Ati Rakta* (red) etc. in colour, *Pichhila* (slimy) and *Tantuvata* (fibrous) in nature, passing little or no stool associated with *Trishna* (thirst), *Daha* (burning sensation), *Jwara* (fever), *Strasta Pakwa Guda* (prolapsed and suppuration of anus) etc. *Sannipataja Atisara* associated with all these symptoms is *Asadhya* (incurable) in nature.
- The patient whose anal orifice does not close at all (*Asamvritta Guda*), who is emaciated (*Ksheena*), having severe flatulence (*Adhmana*), ulcer in the anus (*Guda Paka*) and who has lost his body heat (*Gatoshma*) should be rejected.

# Atisara Nivritti Lakshana (Signs of Cure of Diarrhoea)

Proper elimination of *Mutra* (urine) and *Vayu* (flatus), independently of *Mala* (faeces), along with *Deeptagni* (enhancement of digestive fire) and feeling of *Laghuta* (lightness) in the *Koshtha* (gastro-intestinal tract), these indicate the cure of *Atisara*.

#### CONCLUSION

Nidana, Purvarupa, Rupa, Upashaya, and Samprapti of Atisara have been widely described in Ayurveda Literature. Exhaustive knowledge of *Nidana Panchaka* is essential for the diagnosis of diseases. Nidana is the leading factor for causation of disease, so avoiding the causative factor is the primary step in the management of Atisara. Purvarupa and Rupa help in diagnosis of diseases directly, give knowledge about involvement of Doshas and indicate the site of manifestation of disease. Upashaya helps to diagnose a complicated and untraced disease. Samprapti helps to diagnose the contributory factors of disease. Atisara (diarrhoea) is an important health problem in all the age groups and is a major cause of death in socio-economically backward class of people. Therefore early diagnosis of Atisara on the basis of its Nidana Panchaka, is important for Samprapti Vighatana and to cure the disease successfully without much discomfort in planning treatment.

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