

# A Review On Vishakta Ahara And Its Management Through Agad Tantra Principles

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## ABSTRACT

**Background:** Vishakta Ahara, or contaminated food, is a significant concern in Ayurveda, particularly under the domain of Agad Tantra—the branch of Ayurvedic toxicology. Contamination may arise due to microbial spoilage, chemical adulteration, improper storage, or natural toxins. Classical texts describe how the consumption of such impure food can vitiate Doshas and lead to Vishavikara (toxic disorders). These descriptions align with the modern concepts of food poisoning and foodborne illnesses. Ancient seers have elaborated detailed classifications, symptoms, and management strategies for Vishakta Ahara, emphasizing both prevention and treatment.

**Aim:** To critically review the Ayurvedic concept of Vishakta Ahara and evaluate its management through the principles of Agad Tantra in correlation with modern toxicological approaches.

**Objectives:** To explore classical Ayurvedic references and definitions of Vishakta Ahara. To identify the etiological factors and clinical manifestations associated with Vishakta Ahara. To analyze the treatment modalities described in Agad Tantra for managing food toxicity. To correlate Ayurvedic understanding of Vishakta Ahara with modern concepts of foodborne illnesses.

**Materials and Methods:** A thorough literary review was conducted from classical Ayurvedic texts such as Charaka Samhita, Sushruta Samhita, AshtangaHridaya, and Kashyapa Samhita. Supplementary data were collected from modern scientific journals and recent research on foodborne illnesses. Comparative analysis was done between the classical description of Vishakta Ahara and contemporary toxicology.

**Results:** Ayurvedic literature classifies Vishakta Ahara based on origin, cause of contamination, and spoilage. Common symptoms include gastrointestinal discomfort, systemic reactions, and severe toxicity. Management strategies described in Agad Tantra include administration of Agada (antidotes), therapeutic measures like Vamana (emesis), Virechana (purgation), and use of Deepana-Pachana (digestive and metabolic stimulants). Specific formulations such as MahagandhakaAgada and VishaghnaDravyas like Haridra and Triphala are recommended for detoxification and symptom alleviation.

**Conclusion:** The concept of Vishakta Ahara in Ayurveda is highly relevant in addressing modern foodborne illnesses. The management approach through Agad Tantra not only focuses on treatment but also emphasizes preventive measures. Such integrative understanding can contribute significantly to contemporary public health, especially in the context of rising food adulteration.

**Keywords:** Vishakta Ahara, Agad Tantra, Food poisoning, Ayurvedic toxicology, Agada, Vishaghna Dravya

## INTRODUCTION

Vishakta Ahara is a classical Ayurvedic term used to denote contaminated or impure food that has acquired toxic properties. In Ayurveda, food (Ahara) is considered one of the three primary pillars (Trayopasthambha) essential for sustaining life<sup>1</sup>. Consumption of wholesome food (Hitahara) promotes health and longevity, whereas unwholesome or contaminated food (Vishakta Ahara) can lead to disease and even death. The principles of Agad Tantra, the toxicology branch of Ayurveda, encompass a detailed understanding of the types, sources, symptoms, and treatment of toxic conditions arising from food.<sup>2</sup>

The ancient seers like Acharya Charaka, Sushruta, and Vagbhata described various types of Visha (poisons) and their manifestations, including those arising from diet. They classified food contamination into categories such as JangamaVishakta Ahara (contaminated by animal origin toxins), SthavaraVishakta Ahara (plant origin toxins), and KritrimaVishakta Ahara (artificially adulterated food).<sup>3</sup> These descriptions correlate with present-day categories of biological, chemical, and physical contaminants in food science. The Ayurvedic approach not

only focused on curing the effects but also preventing the occurrence of Vishakta Ahara through proper food selection, storage, and preparation methods.<sup>4</sup>

Classical literature mentions multiple causes for the formation of Vishakta Ahara, including improper storage (DurnidraAvasthapana), cooking in toxic vessels, mixing with incompatible substances (Viruddha Ahara), and contamination by insects, microorganisms, or toxic plants.<sup>5</sup> External factors like polluted water, unhygienic handling, and deliberate adulteration also contribute to the toxicity of food. These ancient observations find strong parallels in modern food safety concerns such as microbial contamination, pesticide residues, heavy metal toxicity, and chemical adulterants.<sup>6</sup>

The symptoms of Vishakta Ahara vary according to the type and potency of the contaminant, as well as the individual's Prakriti (constitution) and Agni (digestive fire). Common manifestations described in Agad Tantra include Arochaka (anorexia), Chhardi (vomiting), Atisara (diarrhea), Jwara (fever), Shoola (abdominal pain), Bhrama (giddiness), and in severe cases, unconsciousness or death. These correlate with the clinical picture of modern foodborne illnesses, ranging from mild gastroenteritis to life-threatening systemic toxicity.<sup>7</sup>

The management of Vishakta Ahara in Agad Tantra is based on three main principles—elimination of the toxin, neutralization of its effects, and restoration of the body's balance. Classical interventions include Vamana (therapeutic emesis), Virechana (therapeutic purgation), NiruhaBasti (decoction enema), and use of Agada (antidotes) prepared from VishaghnaDravya (anti-toxic substances).<sup>8</sup> Examples include MahagandhakaAgada, Pippali, Haridra, Triphala, and Ghee for detoxification and tissue protection. Diet regulation (Pathya-Apathya) and lifestyle measures are equally emphasized to promote recovery.<sup>9</sup>

In the present era, with increasing industrialization, globalization of food markets, and extensive use of preservatives and pesticides, the occurrence of Vishakta Ahara has become a major public health challenge.<sup>10</sup> Modern toxicology offers diagnostic and therapeutic tools, but the holistic and preventive principles of Agad Tantra can serve as a complementary approach. Reviewing and integrating these ancient concepts into present-day food safety and toxicology can provide a more comprehensive framework for managing and preventing foodborne toxicity.<sup>11</sup>

## **Aim and Objectives**

### **Aim:**

To critically review the Ayurvedic concept of Vishakta Ahara and evaluate its management through the principles of Agad Tantra in correlation with modern toxicological approaches.

### **Objectives:**

1. To explore classical Ayurvedic references and definitions of Vishakta Ahara.
2. To identify the etiological factors and clinical manifestations associated with Vishakta Ahara.
3. To analyze the treatment modalities described in Agad Tantra for managing food toxicity.
4. To correlate Ayurvedic understanding of Vishakta Ahara with modern concepts of foodborne illnesses.
5. To highlight preventive strategies for Vishakta Ahara in contemporary food safety practices.

## **MATERIALS AND METHODS**

This review is based on a comprehensive study of classical Ayurvedic texts including Charaka Samhita, Sushruta Samhita, AshtangaHridaya, and Kashyapa Samhita, with specific focus on chapters related to Visha, Ahara, and Agad Tantra. Additional references were taken from Nighantus and commentaries such as Bhavaprakasha, DhanvantariNighantu, and Shabdakalpadruma. Relevant modern literature on food poisoning, toxicology, and public health guidelines were obtained from scientific journals, WHO and FSSAI reports, and contemporary textbooks. Data was critically analyzed to compare and correlate Ayurvedic concepts of Vishakta Ahara with modern foodborne illnesses, focusing on causes, clinical features, and management principles. Both qualitative and comparative approaches were employed to synthesize ancient and modern perspectives.

## **Conceptual Study**

### **Vishakta Ahara**

The term Vishakta Ahara refers to food (Ahara) that has become unwholesome or toxic (Vishakta) due to natural spoilage, contamination, or deliberate adulteration. According to Ayurveda, food is one of the fundamental pillars of life (Trayopasthambha), and its purity directly impacts health and longevity. However, when food becomes polluted or vitiated by Visha (poison), it can lead to multiple systemic disorders. Acharya Charaka and Acharya Sushruta have not used the exact term Vishakta Ahara explicitly but have elaborated upon the effects of Vishayukta (poisoned) and Dushta (spoiled) food in various contexts under Visha Chikitsa and Annaraksha.<sup>12</sup>

### **Classification of Vishakta Ahara**

Classically, Vishakta Ahara may be categorized based on its origin and nature of contamination:

Type of Contamination	Description
JangamaVishakta Ahara	Food contaminated with animal-derived toxins such as scorpion, snake, or insect venom.
SthavaraVishakta Ahara	Food contaminated with plant-based toxins like Dhatura, Ahiphena, Vatsanabha.
KritrimaVishakta Ahara	Artificial contamination or adulteration, intentional or accidental.
Pakadushta Ahara	Food spoiled due to improper cooking, overcooking, or undercooking.
Kaladushta Ahara	Food that has become toxic due to prolonged storage or exposure to unsuitable environmental conditions.
Viruddha Ahara	Food combinations that are incompatible and act as functional toxins when consumed together.

### Nidana (Etiological Factors)

The causative factors (Nidana) of Vishakta Ahara can be grouped as follows:

- Improper storage (DurnidraAvasthapana): Food kept in humid, dirty, or unhygienic environments.
- Use of VishayuktaDravya: Addition of toxic herbs or substances accidentally or purposefully.
- Contamination by Keeta (insects), Krimi (worms): Spoilage by infestation.
- Use of expired, fermented, or stale food: Especially milk products, meat, and curd.
- Cooking in toxic vessels (Visha-Kumbha): Like using brass, lead, or unclean pots.
- Mixing incompatible substances (Viruddha Ahara): e.g., milk with fish, or curd at night.

### Lakshana (Clinical Features)

The symptoms of consuming Vishakta Ahara are elaborated in classical literature and include:

Systems Affected	Symptoms Described in Ayurveda
Gastrointestinal system	Arochaka (anorexia), Chhardi (vomiting), Atisara (diarrhea), Shoola (abdominal pain)
Nervous system	Bhrama (giddiness), Murchha (fainting), Tandra (lethargy)
Cardiovascular system	Hridspandana (palpitations), Shrama (fatigue), Dourbalya (weakness)
Skin and appendages	Toda (pricking pain), Kandu (itching), rashes, urticaria
Systemic	Jwara (fever), Malaise, Vishada (depression), shock, death (in severe cases)

### Pathogenesis (Samprapti)

The ingestion of Vishakta Ahara leads to vitiation of Agni (digestive fire) and subsequent formation of Ama (toxic undigested product), which acts synergistically with the toxic material to impair Doshas (especially Pitta and Vata). The toxins spread through Rasa and RaktaDhatu, manifesting multi-system symptoms. The Srotas (channels) involved include AnnavahaSrotas, Rasavaha, and RaktavahaSrotas, leading to widespread Srotodushti.<sup>13</sup>

### MANAGEMENT OF VISHAKTA AHARA

The management of Vishakta Ahara (contaminated/toxic food) is elaborated extensively in Agad Tantra, the branch of Ayurveda that deals with toxicology (Vishachikitsa). The therapeutic approach is centered on the elimination of toxins (Visha), neutralization of their effects, restoration of homeostasis, and prevention of further damage.<sup>14</sup>

The classical approach involves the following core strategies:

#### Dosha–VishaNirharana (Elimination of Toxins and Vitiating Doshas)<sup>15</sup>

The first line of treatment is to eliminate the ingested toxins and associated Dosha aggravation.

- **Induced emesis (Vamana):**
  - Indicated if the food has been recently ingested and the patient is conscious and strong.
  - Drugs: MadhuyashtiPhanta, Yashtimadhu, MadanaPhala decoction.
  - It expels the toxins from Amashaya and reduces Kapha–Pitta Dushti.
- **Induced purgation (Virechana):**
  - Done after Vamana or when the toxin has reached the intestines.
  - Drugs: Trivrit, AvipattikaraChurna, Drakshadi Kwatha.
  - It clears Pitta–VataDushti from Pakvashaya.
- **Therapeutic enema (NiruhaBasti):**
  - Indicated if Vata is aggravated and toxins have entered Pakvashaya deeply.

- Helps in clearing Srotodushti and relieves Shoola, Grahani, and Udavarta.

### AgadaPrayoga (Use of Antidotes and Anti-toxic Formulations)<sup>16</sup>

Agada refers to specific formulations or substances that act as antidotes (Vishaghna).

#### Classical Agadas for Food Poisoning:

Agada Name	Ingredients or Action	Indications
MahagandhakaAgada	Contains Gandhaka, Trikatu, Triphala, etc.	General antidote for Ahara Visha
VishariAgada	Contains Vacha, Haridra, Tagara, etc.	Nervous system toxins, food poisoning
Sutashekhara Rasa	Contains Gairika, Kapardika, ShankhBhasma	Indigestion, vomiting due to food toxins
HaridraKhand	Haridra is a potent VishaghnaDravya	Allergic food reactions, skin involvement

#### Single Herbs (EkaDravyaAgada):<sup>17</sup>

- Haridra (Curcuma longa): Anti-inflammatory and anti-toxic.
- Triphala: Detoxification, Deepana-Pachana action.
- Shunti, Pippali, Maricha: Digestive stimulation and Amapachana.
- Kakamachi, Vatsanabha (processed): Used cautiously in specific toxic cases.

#### Deepana–Pachana (Enhancing Digestion and Metabolism)<sup>18</sup>

After the removal of gross toxins, it is essential to rekindle Agni and digest residual Ama.

- **Drugs:** Shunthi, Pippali, Chitraka, Ajmoda, TrikatuChurna, HingvastakaChurna.
- These help in:
  - Restoring normal digestion (Agni Sandipanam).
  - Clearing metabolic toxins.
  - Preventing recurrence of symptoms.

#### Srotoshodhana (Cleansing of Channels)<sup>19</sup>

Toxins (Visha) often block bodily channels (Srotas), leading to multisystem dysfunction.

- Srotoshodhana is achieved through:
  - Tikta Rasa dominant herbs like Neem, Patola, Guduchi.
  - Kashayam and Kwathas like Nimbadi Kashaya, PanchatiktaKwatha.
- Result: Restoration of Rasa, Rakta, Annavaha and RasavahaSrotas.

#### RasayanaPrayoga (Restorative and Immunomodulatory Therapy)<sup>20</sup>

Once detoxification is complete, rejuvenation (Rasayana) therapy is initiated to restore tissue integrity and immunity.

- **Examples:**
  - Chyawanprasha, AmalakiRasayana, PippaliRasayana, GuduchiRasayana.
- **Functions:**
  - Strengthen Dhatus, boost Ojas, and resist further toxic attacks.

#### Pathya–Apathya (Dietary and Lifestyle Regulations)<sup>21</sup>

Strict adherence to Pathya (wholesome) and avoidance of Apathya (unwholesome) is crucial in recovery.

- **Recommended diet:**
  - Yavagu, MudgaYusha, Peya, Takra, light and warm foods.
- **Avoid:**
  - Heavy, cold, stale, fermented, incompatible (Viruddha Ahara) foods.
- **Lifestyle:**
  - Avoid physical exertion, stress, and suppression of natural urges.

#### Preventive Aspects in Agad Tantra (AnnarakshaVidhi):<sup>22</sup>

Ayurveda prescribes Annaraksha (food protection) to prevent the occurrence of Vishakta Ahara.

- **Key measures:**
  - Food to be cooked fresh, in clean utensils.
  - Storage in Visha-free environment.
  - Avoid eating food exposed to dust, flies, and Keeta.

- Use of Gandhodaka, Agnihotra, and Mantra Prayoga as preventive spiritual methods.

## MODERN REVIEW

In the field of contemporary medicine and public health, contaminated food is a major global concern and is directly associated with foodborne illnesses, outbreaks, and nutritional deficiencies. Contaminated food refers to any food item that contains harmful microorganisms (bacteria, viruses, parasites), toxic chemicals, heavy metals, or foreign substances. These contaminants can enter food during production, processing, storage, transportation, or preparation. According to the World Health Organization (WHO), foodborne diseases affect nearly 600 million people annually, resulting in approximately 420,000 deaths worldwide.<sup>23</sup>

## Types of Food Contamination

Type	Description
<b>Biological</b>	Includes pathogens like Salmonella, E. coli, Listeria, Norovirus, Giardia.
<b>Chemical</b>	Includes pesticide residues, food additives, industrial chemicals, and mycotoxins.
<b>Physical</b>	Presence of foreign particles like glass, metal fragments, stones, or hair.
<b>Allergenic</b>	Accidental presence of allergens like peanuts, soy, shellfish in non-allergic food.
<b>Radiological</b>	Rare but possible contamination through radioactive materials in the environment.

## Causes of Food Contamination<sup>24</sup>

- Poor hygiene during handling and processing.
- Cross-contamination from raw to cooked food.
- Use of contaminated water in food preparation.
- Improper storage leading to microbial growth (e.g., refrigeration failure).
- Excessive use of synthetic chemicals like preservatives and colorants.
- Intentional food adulteration (e.g., addition of non-edible substances for profit).
- Exposure to heavy metals like arsenic, lead, cadmium, and mercury.

## Common Foodborne Diseases and Causative Agents

Disease	Causative Agent	Symptoms
Typhoid	Salmonella typhi	High fever, abdominal pain, diarrhea
Gastroenteritis	E. coli, Norovirus	Diarrhea, vomiting, cramps
Botulism	Clostridium botulinum	Paralysis, respiratory failure
Listeriosis	Listeria monocytogenes	Flu-like symptoms, miscarriage in pregnant women
Cholera	Vibrio cholerae	Severe watery diarrhea, dehydration
Hepatitis A and E	Hepatitis A/E virus	Jaundice, liver inflammation
Mycotoxicosis	Aflatoxins from molds	Liver toxicity, carcinogenic effects

## Diagnosis and Detection of Food Contamination<sup>25</sup>

Modern diagnostic methods are used to detect contaminants in food and identify affected patients:

- Laboratory Testing: Stool culture, blood tests, liver and renal function tests.
- Food Testing: PCR, ELISA, chromatography, spectrophotometry, and rapid test kits.
- Public Health Surveillance: Monitoring food supply chains for outbreaks.
- Toxin Detection: Identification of mycotoxins, heavy metals, and chemical residues using advanced instrumentation (e.g., HPLC, GC-MS).

## Modern Medical Management of Food Poisoning<sup>26</sup>

- Supportive Care: Hydration (oral/IV), electrolyte correction, rest.
- Antimicrobial Therapy: Antibiotics based on pathogen (e.g., ciprofloxacin, azithromycin).
- Antitoxins: Used in specific poisoning cases (e.g., antitoxin for botulism).
- Probiotics: Used to restore gut flora after infections or antibiotic use.
- Hospitalization: In cases of severe dehydration, multi-organ failure, or shock.

## Preventive Measures in Public Health and Food Safety<sup>27</sup>

- Food Hygiene Education: Training for food handlers and processors.
- Legislation and Regulation:
  - FSSAI (India), FDA (USA), EFSA (Europe) govern food safety.
  - Mandatory labelling, expiry dates, and processing standards.
- Food Preservation Techniques:

- Pasteurization, refrigeration, canning, irradiation, chemical preservatives.
- Public Health Campaigns: Promoting handwashing, safe cooking, and storage practices.

#### **Impact of Food Contamination on Health and Economy<sup>28</sup>**

- Acute Impact: Outbreaks leading to hospitalization, morbidity, and mortality.
- Chronic Impact: Long-term exposure may lead to liver damage, neurological disorders, immune suppression, and cancer.
- **Economic Burden:**
  - Loss of productivity, cost of healthcare, recall of products, legal liabilities.
  - Developing nations are more vulnerable due to poor regulation and infrastructure.

#### **Modern Innovations in Food Safety<sup>29</sup>**

- Smart Packaging: Time-temperature indicators, spoilage sensors.
- Blockchain in Supply Chain: Improves traceability of food sources.
- Artificial Intelligence: Detects trends in food contamination and predicts outbreaks.
- Genetic Engineering: Creation of pathogen-resistant crops and probiotic foods.

### **RESULT AND FINDINGS**

- Vishakta Ahara in Ayurveda closely resembles modern food poisoning.
- Symptoms like Chhardi, Atisara, and Jwara align with modern clinical features.
- Causes such as spoilage, contamination, and improper storage are common in both systems.
- Ayurvedic management through Agad Tantra (e.g., Vamana, Agada) is effective for detox.
- Modern treatment involves rehydration, antibiotics, and supportive care.
- Prevention is key in both systems through hygiene and food safety practices.
- Integrating Ayurvedic and modern approaches offers holistic management.

### **DISCUSSION**

Vishakta Ahara is a timeless Ayurvedic concept that finds strong relevance in today's world where food safety has become a global concern. With increasing industrialization, the use of chemical preservatives, pesticide-laden produce, and unhygienic food handling practices, the frequency of foodborne illnesses has risen significantly. Ayurveda, through the lens of Agad Tantra, recognizes the ingestion of toxic or impure food as a major etiological factor contributing to various disorders affecting Annavaha, Rasavaha, and Raktavaha Srotas. This demonstrates the depth and foresight of ancient scholars in recognizing food as both a source of nourishment and potential disease.<sup>30</sup>

The review highlights that the classical symptoms described for Vishakta Ahara—such as Chhardi (vomiting), Atisara (diarrhea), Arochaka (loss of appetite), Jwara (fever), and Bhrama (giddiness)—are well-aligned with symptoms of modern foodborne diseases like gastroenteritis, typhoid, listeriosis, and botulism. Both systems identify improper food storage, microbial contamination, chemical adulteration, and incompatible combinations as causative factors. Ayurveda also includes subtler factors like Viruddha Ahara and Kaladushti, which have no direct equivalents in modern science but can be interpreted as food–food or food–time incompatibility.<sup>31</sup>

Ayurvedic management through Agad Tantra emphasizes early detoxification, restoration of digestive fire, and rejuvenation. Techniques such as Vamana, Virechana, Deepana–Pachana, and administration of Agada formulations serve as targeted interventions to remove and neutralize toxins. Modern medicine, on the other hand, focuses on symptom control, hydration, antibiotic therapy, and supportive care based on pathogen-specific diagnosis. While both approaches have their strengths, Ayurvedic therapies are notable for their ability to address subtle toxic effects and prevent recurrence through Agni regulation and Rasayana therapy.<sup>32</sup>

Prevention is a key area of convergence between both systems. Ayurveda's AnnarakshaVidhi prescribes guidelines for food selection, preparation, and storage to avoid contamination, which parallels modern HACCP protocols and food safety regulations governed by FSSAI, WHO, and FDA. The traditional stress on Shuddha Ahara (pure food) and mindful eating reflects a holistic preventive outlook. Combining traditional preventive measures like using antimicrobial herbs (Haridra, Triphala) with modern food hygiene can enhance food safety outcomes.<sup>33</sup>

The findings suggest a strong potential for integrative frameworks where Ayurvedic principles can complement modern diagnostic and therapeutic tools. In settings where laboratory confirmation or immediate treatment is not possible, Ayurvedic detoxification and anti-toxic formulations can serve as effective early interventions. Moreover, public health models may benefit from incorporating Ayurvedic preventive dietary principles. Further clinical studies and interdisciplinary research are warranted to validate the efficacy of Agada formulations and understand their mechanisms in managing foodborne toxicity.<sup>34</sup>

### **CONCLUSION**

The concept of Vishakta Ahara in Ayurveda offers a profound and holistic understanding of foodborne toxicity, which aligns closely with modern perspectives on food contamination and poisoning. Through the principles of Agad Tantra, Ayurveda emphasizes early detoxification, restoration of digestive balance, and prevention, providing both curative and protective measures. Modern medicine contributes precise diagnostic tools and pathogen-specific treatments, while Ayurveda offers a systemic and natural approach to detoxification and immune restoration. Integrating both systems can enhance public health strategies in managing foodborne illnesses, especially in the context of rising food adulteration, microbial threats, and lifestyle-related digestive disorders.

**Conflict Of Interest**

Nil

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None

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