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# BRIDGING TRADITION AND CULINARY SCIENCE: FOOD TYPOLOGIES AND COOKING IN INDIAN HERITAGE

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#### **Abstract**

This research explores the systematic classifications of food and traditional cooking techniques outlined in ancient Indian texts such as the Bhagavad Geeta, Charaka Samhita, and Kshema Kutuhalam. The categorization is based on texture and intake methods while cooking techniques range from frying to specialized methods like roasting in a pit. The study also delves into the Ayurvedic ontology of food, highlighting the hierarchical classification of plant and animal origins. This framework bridges traditional practices with a modern understanding of culinary science.

**Keywords**: Food classification, Ayurveda, Cooking methods, Ontology, Indian culinary traditions.

#### Introduction

Food is not just a necessity but a cultural phenomenon reflecting traditional knowledge and practices. Indian classical texts provide an intricate classification system of food items, categorizing them based on properties, origin, and consumption methods. This paper seeks to examine these classifications and explore the traditional cooking methods outlined in ancient scriptures. The research also aims to elucidate the ontological structure of food items as conceptualized in Ayurveda, bridging historical context with contemporary culinary science.

#### Classifications of Food and different cooking methods

Classifications of Food

Generally, in mundane meals, we have various dishes, and we have our nomenclature (like rice, dal, fry, rasa, pickle, powder, etc.) to name them. But traditionally, there is a certain classification of food by which all kinds of recipes can be segregated.

According to Bhagavdgeeta, the food is classified into four kinds<sup>1</sup> such as *Bhojyam* (*eatable*), *Bhakshyam* (*chewable*), *Lehyam* (*lickable*) and *Chusyam* (*drinkable*). The Smilar classification can be seen in Ramayana, Manusmriti and Kshema kutuhalam also.

Acharya Charaka has classified the Ahara Dravya (food articles) in different ways. Diet is one, from the viewpoint of intake, of two types according to source, animal origin, and plant origin, *Hitahara* (wholesome) and *Ahitahara* (unwholesome)<sup>2</sup> depending upon its effect on a biological system. These are

अहं वैश्वानरो भूत्वा प्राणिनां देहमाश्रित: ।
णापानसमायुक्त:पचाम्यन्नं चतुर्विधम् ॥

अहम् एव वैश्वानर उदरस्थः अग्निः भूत्वा 'अयम् अग्निवैश्वानरो योऽयमन्तः पुरुषे येनेदमन्नं पच्यते' [1] इत्यादिश्रुतेः वैश्वानरः सन् प्राणिनां प्राणवतां देहम् आश्रितः प्रविष्टः प्राणापानसमायुक्तः प्राणापानाभ्यां समायुक्तः संयुक्तः पचामि पंक्ति करोमि चतुर्विधं चतुष्प्रकारम् अन्नम् अशनं भोज्यं भक्ष्यं चोष्यं लेह्यं च। श्रीमद्भगवद्गीता, शांकर-भाष्यम्, अध्याय 15, श्लोक 14 p551

<sup>&</sup>lt;sup>2</sup> तमुवाच भागवानात्रेयः- हिताहारोपयोग एक एव पुरुषस्याभिवृद्धिकरो भवति। अहिताहारोपयोगः पुनर्व्यधीनां निमित्तमिति।

further classified into four categories depending upon the way of intake which are *Pana* (drinkables), *Asana* (eatables), *Bhakshya* (chewable), and *Lehya* (lickable). Acharya Kashyapa classified food articles into five categories based on the *Panchamahabhutas* which are *Akasheeya*, *Vayavya*, *Agneya*, *Apya* and *Parthiva*. Acharya Sharangadhara and Bhavaprakasha further classified food articles into six types such as *Bhojya*, *Bhakshya Charvya*, *Lehya*, *Chusya*, *Peya*. The same list is appeared in Shivatattva Ratnakara and bhajana kutuhalam.

Consolidated list of food classifications depicted from various sources

Food type	BG	SR	CS	BK	KK
Bhojya (palatable)	+	+	+	+	+
Bhakshya	+	+	+	+	+
(chewable)					
Charvya (crushable	_	+	-	+	-
with teeth)					
Lehya (lickable)	+	+	+	+	+
Chusya	+	+		+	-
(swallowable)					
Peya (drinkable)	_	+	+	+	+

**Note:** BG – Bhagavad Geeta, SR- Sivatattvaratnakara, CS- Charaka Samhita, BK- Bhojana kutuhalam, KK- Kshema kutuhalam

Indian culinary traditions highlight seven primary methods of cooking:

- 1. Bharjan (Frying) e.g., potato fry.
- 2. Talan (Deep-frying) e.g., puri and baji.
- 3. Sweda (Steaming) e.g., idlis and other steamed foods.
- 4. Pachan (Cooking to ripen) e.g., rice and curries.
- 5. Kwathan (Boiling) e.g., rasam and sambar.
- 6. Tandoor (Roasting) Popularized by tandoori roti and similar dishes.
- 7. Putapak (Cooking in a pit) A unique method practiced in regions like Maharashtra.

Each method reflects the culinary diversity and the influence of local ingredients, climate, and culture.

#### Classification of Dravya in Ayurveda and Ontological frame-work of recipes

All kinds of recipes are prepared of plant-origin and animal-origin material. According to Ayurveda, there are certain sub-classifications under plant origin and animal origin in the context of the dravya concept. Before structuring the ontological framework of recipes, one should know the hierarchical linkages of source material.

In Ayurveda, the dravya was classified into three types such as  $J\bar{a}ngama$ , Audbhid,  $p\bar{a}rthiva^5$  Respectively. As per the present context, the sub-classifications of  $J\bar{a}ngama$  and Audbhid will explained. The discussion on these categories is as follows.

Charaka Samhita, Adhyaya 25, vkyam 30, p197

<sup>&</sup>lt;sup>3</sup> Charaka Samhita, Adhyaya 25, vakyam, 35, p197

<sup>&</sup>lt;sup>4</sup> Triveni Raina, Brij Kishor, Swapnil Saini, Dalip Sharma. Role of Ahara as a Prime Etiological Factor in the Manifestation of Disease. International Journal of Ayurveda and Pharma Research. 2018;6(6):60-65.

<sup>&</sup>lt;sup>5</sup> तत् पुनस्त्रिविधं प्रोक्तं जाङ्गमौदभिदपार्थिवम् । Charaka Samhita.1.1.68, p.9

#### Jāṅgama category

As discussed earlier, a living being that motiles is called *Jāngama*. *Suśṛṭa* has classified *Jāngama* category into four groups – 1. *Jarāyuja* 2. *Aṇḍaja* 3. *Svedaja* and 4. *Udbhijja*. This is a popular classification in *Saṃhitā*s and *Kośas*. Special characteristics of each group are described in what follows.

- i. *Jarāyuja*:- पशु-मनुष्य-व्यालादयो जरायुजाः।<sup>6</sup> Living beings that have reproductive organs with placenta are *Jarāyujas*. *Suśṛṭa* includes man, lion, tiger, and other animals in this category.
- ii. **Aṇḍaja :-** खग-सर्प-सरीसृप-प्रभृतयोऽण्डजाः।<sup>7</sup> Aṇḍajas are those which originate from eggs. Aves (birds), reptiles. Crows, snakes, lizards, fish, etc.
- iii. **Svedaja :-** कृमि-कीट-पिपीलिकाप्रभृतयः स्वेदजाः।<sup>8 Svedaja</sup>s are living creatures that are born out of sweat. Ants, mosquitoes, insects, etc., are considered in this category.
- iv. *Udbhijja* :- इन्द्रगोप-मण्डूकप्रभृतयः उद्भिज्जाः। <sup>9</sup> The cochineal insect of various kinds is called *mandragora*. A firefly is also an *indragopa*. Also, frogs and similar animals come under *Udbhijja* category.

## Audbhid category

The Audbhid category was classified into four groups Vanaspati, Vānaspatya, Vīrudh, and Oṣadhis. This classification is similar in allied Ayurvedic texts. In these texts, their features were also mentioned namely

- i. *Vanaspati:-* 'Plants do not possess visible flowers' are vanspatis. Hence, they are *apuṣpa*s (flowerless). For Instance, *aśvattha*, *agaru*, *devadāru*, *arjuna* etc.
- ii.  $V\bar{a}naspatya$ :- 'plants bear both flowers and fruits' are vanspatyas. For Instance,  $\bar{a}mra$ ,  $har\bar{t}taki$  etc.
- iii. *Vīrudh*:- Those plants which twine crawl or climb up are known as *Vīrudhs*. Also, '*Pratāna*' are called virudhs. *Pratāna* or virudh was further sub-categorized as- 'a) *Latā* and b) *Gulma*' are
- iv. Latā:- Climbers are called 'Latā' and also they are otherwise called Vallī' vidārī, kapikaccu etc.,

11

<sup>&</sup>lt;sup>6</sup> Sushruta Samhita.1.1, Pp.7-8

Sushruta Samhita.1.1, Pp.7-8

<sup>8</sup> Sushruta Samhita.1.1, Pp.7-8

Sushruta Samhita.1.1, Pp.7-8

<sup>&</sup>lt;sup>10</sup> i) फलैर्वनस्पतिः। Charaka Samhita.1.72, p.9

ii) अप्ष्पाः फलवन्तो वनस्पतयः। Sushruta Samhita.1.1, Pp.7-8

iii) तत्र फलिनो वनस्पतिः। Astanga Sangraha.1.12, Pp.137

iv) तैरपृष्पाद्वनस्पतिः। Amarakosha.2.4.6, Pp.129

v) वनस्पतिः फलतिः यः पुष्पैर्विना । Raja Nighantu.1.29, Pp.13

i) प्ष्पैवानस्पत्यः फलैरपि। Charaka Samhita.1.72, Pp.9

ii) फलपुष्पवान्वानस्पत्यः। Astanga Sangraha.1.12, Pp.137

iii) प्ष्पफलवन्तो वृक्षाः। Sushruta Samhita.1.1, Pp.7-8

iv) वानस्पत्यः फलैः पृष्पात्। Amarakosha.2.4.6, p.129

v) तैः फलं वानस्पत्यः। Raja Nighantu.1.29, p.13

<sup>&</sup>lt;sup>12</sup> प्रताने वीरुधः स्मृताः। Charaka Samhita.1.72, p.9

प्रतान शब्देन लता ग्ल्माश्च गृहयन्ते। Charaka Samhita.1.72, Cakrapani, p.9

<sup>&</sup>lt;sup>4</sup> वल्ली तु व्रततिर्लता। Amarakosha.2.4.6, p.130

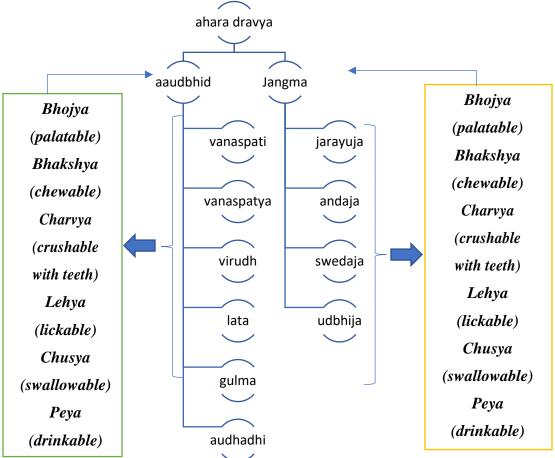
are climbers.

- v. *Gulma:* Shrubs are *gulmas*. These are also climbers. But, can not crawl/or go up as long as the *Latās*. '*Atibala*', '*Śāliparṇī* etc., are *gulmas*. The *gulma* category consists of a cluster of trees.
- vi. **Oṣadhi**:- In Ayurveda, the word *Oṣadhi* comes under *Audbhid* category. Those plants which 'whither away after yielding the fruits or after harvest<sup>15</sup> are known as *Oṣadhis*. Perennial crops like paddy, pulses, wheat, maize etc., are *Oṣadhis*.

## Ontological framework of recipes

The term 'ontology' is originated from the Greek. It means 'study of being or existence or reality.' The study of the existence of entities, their classification based on similarities or differences, and the hierarchy involved in it come closer to the philosophical studies.

# Hierarchy of Ahara dravyas along with food classifications



<sup>&</sup>lt;sup>15</sup> i) ओषध्यः फलपाकान्ताः। Charaka Samhita.1.72, p.9

ii) फलपाकान्ता त्वौषधिरिति। Asthanga Sangrah.1.12, p.137

iii) फलपाकनिष्ठा ओषधय इति। Sushruta Samhita.1.1, Pp.7-8

iv) ओषधिः फलपाकान्ता। Amarakosha.2.4.6 p.129

v) फलपरीपाकावसानान्विता। Raja Nighantu.1.29, p.13

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Ontology also plays an important role in showing the heirachical linkage of certain food article. The basic build block will be पदार्थ. Based on the ontological linkage, one can aware of root source and food type of certain food item. For instance, the ontological linkage of 'ओदनम् (cooked-rice)' is shown blellow

$$ext{ } ext{ } ex$$

#### Conclusion

The classifications of food and cooking methods documented in ancient Indian texts reveal a profound understanding of dietary science. These frameworks emphasize the holistic integration of nutrition, health, and cultural values. Revisiting such traditional knowledge provides a pathway to innovating modern culinary practices while preserving cultural heritage. By understanding the ontological framework, we can appreciate the interconnectedness of food sources, preparation methods, and their effects on human physiology and well-being.

#### References

- 1. Chunekar K.C., *Bhāvaprakāśa Nighaṇṭuḥ* (Indian Meteria Medica of *Bhāvamiśra*), Chaukhamba Bharati Academy, Varanasi 2010
- 2. Dundi Raja Shastri, *Vaiśeṣika Sūtropaskāra, Prakāśika* Hindi Commentary, Choukhamba Prakasan, Varanasi 2007
- 3. Govardhana Sharma Changani, *Aṣṭānga Saṃgrahaḥ* (*sūtrasthāna*), *Arthaprakāśikā* Commentary, Chaukhamba Samskruta Samsthan, Varanasi 2010
- 4. Indra Deva Tripati, *Rāja Nighaṇṭuḥ* with *Dravyaguṇaprakāśika* Hindi Commentary, Chaukhamba Krishanadas Academy, Varanasi 2006
- 5. Kamat S.D., Studies on Medicinal Plants & Drugs in *Sarasvatī Nighanṭuḥ*, Chaukhamba Samskruta Samsthan, New Delhi 2006
- 6. Kanhaya Lal Tivari, Ayurveda ka subodha itihās, Eastern book links, Delhi 2000
- 7. Kannan K.S., *Ayurveda Padārtha Vijñānam* -The theoretical foundations of Ayurveda, Institute of Ayurveda and Integrative Medicine (I-AIM), Bangalore 2011
- 8. Krishnatha Sastri, *Caraka Saṃhitā* with Ayurveda *Vidyotini* Hindi commentary, Choukhamba Sanskrit Samsthan, Varanasi, 2006
- 9. Kulkarni P.H., The Encyclopedia of Ayurveda, Sri Satguru publications, Delhi 2005
- 10. Kshema Sharma, kshemakutuhalam, FRLHT, Bangalore, 2009, Page 30
- 11. Lalchandra ji Vaidya, Suśrta Samhitā, Motilal Benarasidas, Varanasi 2007
- 12. Narayana Ram Acharya, *Amarakośa*, Bharatiya Vidya Prakashan, Varanasi 2008
- 13. Om Prakash, Foods and Drinks in Ancient India, Munsi Ram Manohar Lal, Oriental Book Sellers and Publishers, Nai Sarak, Delhi-6, 1961
- 14. Pandit Shivadatta, '*Amarakośa*' '*Rāmāśramī*' commentary, Choukamba Sanskrit Series Office, Varanasi 2002
- 15. Panduranga Javaji, *Tarkasaṃgraha Nyāyabodhinī Commentary*, *Nirṇayasāgara khyāmudraṇālaya*, Mumbai, 1919
- 16. Raghavan Tirumulpad K., *Bhadanta Nāgarjuna*'s *Rasavaiśeṣika* text with English Translation, Department of Publications, Arya Vaidya Shala, Kottakkal, Kerala 2010
- 17. Raghunatha Suri, Bhojanakutuhalam, FRLHT, Bangalore, 2019

ISSN: 2278-4632 Vol-14, Issue-11, No.01, November: 2024

- 18. Raja Radhakantadeva, Śabdakalpadrumam, Choukhamba Sanskrit Series office, Varanasi 2001
- 19. Rama Chandra Reddy K., Ocean of Ayurvedic Pharmaceutics, Choukhamba Sanskrit Bhavan, Varanasi 2007
- 20. Ramashastri, Sivatattva RatnakaraH, 6<sup>th</sup> kallola, page 64
- 21. Rama Rao B., Camatkāra Nighantu, Chaukhamba Viswabharati, Varanasi 2005
- 22. Sastry J.L.N., *Āyurvedokta Oṣadha Niruktamālā*, Chaukhamba Orientalia, Varanasi 2000
- 23. Sastry J.L.N., *Dravyaguṇa Vijñāna* (Study of the Essential Medicinal Plants in Ayurveda), Chaukhamba Orientalia, Varanasi 2010
- 24. Satyanarayana H., *Dvaitavedānte Padavṛtti Svarūpa Vicāra*, Purna Pragna Samsodhana Mandiram, Purna Pragna Vidyapeetam, Bangalore 2005
- 25. Sharma P.V., *Caraka Saṃhitā* (Text with English translation), Chaukhamba Orientalia, Varanasi 2010
- 26. Sharma P.V., *Dhanvantari Nighantuh*, Chaukhamba Orientalia, Varanasi 2004
- 27. Sharma P.V., Introduction to *Dravyaguṇa* (Indian Pharmacology), Chaukhamba Orientalia, Varanasi 2010
- 28. Sharma P.V., Kaiyadeva Nighanṭuḥ (Patyāpatyavibodhika), Chaukhamba Orientalia, Varanasi 2009
- 29. Someswara, Manasollasa, Volume 1, Central Liberary, Borada, 1925
- 30. Sudarshan S.R., Encyclopedia of Indian medicine, Dr. V. Prarameshwara Charitable Trust, Bangalore 2005
- 31. Swami Bramhamuni Parivrajaka, *Atharvavedīya Cikitsā Śāstra*, Dayananda Samsthan, New Delhi 2006
- 32. Taranadha Tarka Vacaspati Bhattacarya, Vacaspatyam, Choukamba sanskrit siries office, Varanasi 2003
- 33. Vaidya Bhagwan Dash, Materia Medica of Ayurveda based on Ayurveda Saukhyam of Todarananda, Naurang Rai Concept Publishing Company, New Delhi 1980
- 34. Yadunandana Upadhyaya, *Aṣṭāṅgahṛdayam*, with English commentary, Choukhamba Prakasan, Varanasi 2010