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Chronobiology and Ahara Kaala – An Integrative Approach To Timing Of Food Intake In Ayurveda

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Abstract

Background: Āhāra kāla, the appropriate timing of food intake, is a fundamental principle in Āyurveda that governs digestive efficiency, metabolic balance, and overall health. Classical texts emphasize that food should be consumed only after the manifestation of *jīrṇa āhāra lakṣaṇas* — objective indicators of complete digestion. Contemporary research in chronobiology and chrono-nutrition similarly highlights the importance of aligning meal timing with circadian rhythms to optimize physiological functions and prevent lifestyle disorders.

Objective: This review aims to integrate Āyurvedic concepts of āhāra kāla with modern chronobiological principles, highlighting their relevance in maintaining digestive health, preventing disease, and promoting holistic well-being.

Methods: A narrative review was conducted using classical Āyurvedic literature, including Charaka Saṁhitā, Suśruta Saṁhitā, Aṣṭāṅga Hṛdaya, and Aṣṭāṅga Saṅgraha, along with contemporary scientific studies on meal timing, digestive physiology, and circadian rhythms. The concepts of *jīrṇa āhāra lakṣaṇas*, agni, yāma, anna kāla, and dinacaryā were critically analysed and correlated with modern physiological frameworks.

Key Findings: The assessment of *jīrṇa āhāra lakṣaṇas* provides individualized markers for determining optimal meal timing, superseding rigid scheduled eating patterns. Among influencing factors, agni plays a primary role, followed by meal quantity (*mātrā*) and food attributes (*āhāra svabhāva*). Structured routines (*dinacaryā*), including early rising, oral hygiene, oil massage, exercise, and timely bathing, regulate digestive fire and reinforce circadian alignment. Seasonal variations (*ṛtu*) and digestive capacity further modulate meal timing requirements.

Conclusion: Āhāra kāla represents a dynamic, individualized model of chrono-nutrition that harmonizes digestive function with biological rhythms. Integrating Āyurvedic principles with

Modern chronobiology offers a comprehensive framework for optimizing digestion, preventing metabolic disorders, and sustaining long-term health and vitality.

Keywords: āhāra kāla, meal timing, jīrṇa āhāra lakṣaṇas, agni, dinacaryā, circadian rhythm

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Introduction

Āhāra kāla refers to the appropriate time for food intake. Proper digestion is indicated by the normal positioning of doṣas, clear belching, unobstructed cardiac region, normal expulsion of vāta, and appropriate urges for urination,

defecation, and flatus. These features support the maintenance of dhātus and contribute to longevity. Additional determinants of āhāra kāla include meal frequency and the interval between successive meals.

Anubandha Catuṣṭaya[1] (Framework of the article)[2]

Table No. 1: Anubandha Catuṣṭaya

Component	Description
Abhidhāna	Understanding āhāra kāla through Āyurveda
Abhidheya	Āhāra kāla, quantity of food to be taken, agni, dinacaryā
Prayojana	To highlight the role of āhāra kāla in consumption of food
Sambandha	To understand influence of agni, āhāra mātṛā, dinacaryās on āhāra kāla

Objectives

- To analyse Āhāra kāla as an epistemological concept in Āyurveda.
- To evaluate its role in digestive health and its alignment with modern nutritional science.
- To explore the relevance of Āhāra kāla within contemporary evidence-based research paradigms.

Methodology

This study adopts a narrative review methodology, analysing classical Āyurvedic texts alongside contemporary peer-reviewed literature indexed in PubMed and Scopus. Comparative synthesis of Āyurveda and modern chron-nutrition literature was employed to evaluate Āhāra kāla within the framework of modern digestive health.

Review

Āhāra kāla is the time at which an individual is supposed to take food. Āhāra is the first among the Trayopastambha[3]

and is responsible for providing vitality, radiance, strength, support and also in enhancing power of memory, life span, strength and mental activities. To obtain these benefits, one should follow the rules and regulations for taking food. Among these rules, taking food as per the āhāra kāla[4] is the most significant one for maintaining svāsthya. Āhāra kāla is explained in three principal contexts: based on jīrṇa āhāra lakṣaṇa, based on yāma, and based on anna kāla.

Āhāra kāla based on jīrṇāhāra lakṣaṇa[5]

According to the classical description, food should be consumed only after the manifestation of jīrṇa āhāra lakṣaṇas. These include proper elimination of faeces and urine, a pleasant and stable state of mind, gentle movement of doṣas in their natural pathways, clear belching, appropriate manifestation of hunger, easy expulsion of flatus, well-developed

digestion, proper functioning of sense organs, and a subjective feeling of lightness in the body. When these features are observed, food administered according to prescribed rules is considered to be taken at the proper āhāra kāla. Similar lakṣaṇas are also described in Aṣṭāṅga Saṅgraha, reinforcing the centrality of digestive readiness in determining meal timing.

Āhāra kāla based on yāma intervals

In the context of Agnihotra vidhi, it is stated that food should be taken once in the morning and once in the evening, without consuming meals in between these timings[6]. It is further explained that a second meal should not be taken within one yāma (approximately three hours) of the previous meal, and one should not remain without food beyond two yāmas (approximately six hours). During the first yāma, formation of āhāra rasa occurs, and premature intake may disturb this process. Conversely, excessive delay beyond two yāmas may result in diminution of strength. Another view suggests that complete digestion of food requires four yāmas[7]. Thus, hunger that develops following proper transformation of rasa, doṣa, and malas, accompanied by jīrṇa āhāra lakṣaṇas such as clear belching, enthusiasm for activity, natural urges, lightness of the body, and thirst, indicates the appropriate time for food intake.

Āhāra kāla based on annakāla[8]

In individuals with manda agni, consumption of food once during a single anna kāla is advised to enhance digestive capacity. Those possessing sama agni are advised to take food during two anna kālas. The expression dvi kāla is also interpreted to mean that two parts of the stomach should be filled with food, implying moderation and regulation in quantity in accordance with digestive strength.

Āhāra kāla based on ṛtu

Seasonal variations also influence āhāra kāla. During ṛtus characterized by longer nights, individuals are advised to consume larger quantities of āhāra that are pratyaneekam (opposite in qualities to the seasonal attributes), particularly in the morning. When day and night are of equal duration, food should be taken in balanced quantities during morning and evening[9]. Vṛddha Vāgbhaṭṭa additionally emphasizes consideration of ṛtu and stage of vyādhi while determining meal timing. He describes signs of complete digestion such as variations in taste of belching during and after meals, absence of burning sensation, lightness of the body, clarity of the mouth, proper upward and downward movement of vāta, development of appetite, and subsidence of ailments. These indicators collectively affirm complete digestion and readiness for subsequent food intake.

Table No. 2: Taking Food at Improper Time

Condition	Description
Taking food in aprāpta kāla	Āhāra should not be taken before or beyond the appropriate kāla, nor in insufficient or excessive quantity. Intake before the

	manifestation of lightness of the body may result in disease or even fatal consequences.
Delaying eating even after experiencing hunger[10]	When food is consumed long after the appropriate time despite the presence of hunger, agni becomes disturbed by vāyu, leading to impaired digestion and loss of appetite. Bhāvaprakāśa and Yogaratnākara express similar views regarding aprāpta kāle and atīta kāle.

Āhāra kāla in other sciences

In Siddha medicine[11], emphasis is placed on consuming properly cooked, wholesome food comprising all six rasas after complete digestion of the previous meal. The time required for digestion is described as approximately three hours, though some authorities mention two to two and a half hours. Based on this understanding, certain Siddha ācāryas recommend three meals per day, while others caution against thrice-daily intake, considering it a potential cause of vyādhis. In contrast, systems such as Homeopathy, Unani, Allopathy, and Naturopathy do not provide specific classical references regarding fixed meal timings for healthy individuals.

Agni as a Determinant of Āhāra Kāla

Agni, the digestive fire, is the central factor governing digestion of āhāra and the subsequent nourishment of

dhātus, thereby maintaining health[12]. Impairment of agni leads to incomplete digestion and defective dhātu formation, which in turn results in doṣa and dhātu imbalance. Food that is properly digested under the influence of balanced agni or pitta is regarded as amṛta (nectar), whereas improperly digested food due to agni duṣṭi becomes viṣa (toxic)[13].

Agni varies according to the predominance of doṣas. In vāta dominance it becomes viṣamāgni; in pitta dominance, tīkṣṇāgni; and in kapha dominance, mandāgni. When agni remains balanced, it is termed samāgni and ensures proper digestion and physiological equilibrium. Thus, the type and functional status of agni directly influence digestion, metabolism, and overall homeostasis.

For assessing the type of agni in an individual, Ācārya Suśruta has described specific lakṣaṇas for each type.

Table No. 3: Types of Agni

Type of Agni	Characteristics[14] (Su.Sū. 35/24)
Samāgni	Agni which digests food properly at the appropriate time.
Viṣamāgni	Presence of flatulence, colic, diarrhoea, heaviness in the stomach, and intestinal disturbances.
Tīkṣṇāgni	Food, even when taken frequently, is digested rapidly; after digestion it may cause atrophy, pain, and burning sensation in the throat, palate, and lips.
Mandāgni	Even small quantities of food produce heaviness in the stomach and head, cough, breathlessness, salivation, vomiting, weakness, and delayed digestion.

Effect of Dinacaryā on Agni

Dinacaryā plays a significant role in regulating and strengthening agni. One should awaken during Brāhma muhūrta[15] after ascertaining whether the food consumed the previous night has been properly digested. If the individual does not experience lightness or feels that the previous meal remains undigested, continued rest is advised. Practices such as dantadhāvana[16] (brushing of teeth) and jihvā nirlekhana[17] (tongue scraping) help in enhancing taste perception and stimulating digestive readiness. The use of tāmbūla[18] is described as beneficial for improving agni and taste perception and is recommended before and after meals.

Furthermore, abhyanga[19], followed by vyāyāma[20] and subsequently snāna[21], contributes to the development and proper functioning of agni. Through these daily regimens, digestive fire is maintained in a balanced state, thereby indirectly regulating appropriate āhāra kāla.

Discussion

Need for the Assessment of Jīrṇa Āhāra Lakṣaṇas

Agni governs digestion by converting food into nutrients, energy, and bodily tissues, and is therefore regarded as a cornerstone of health. The concept of jīrṇa āhāra lakṣaṇas provides practical indicators to determine whether previously consumed food has been adequately digested before subsequent intake.

From the perspective of **Swasthya Rakṣaṇa (maintenance of health)**, proper regulation of jatharāgni ensures complete digestion and balanced dhātu formation, which sustains ojas, immunity, vitality, and mental clarity. Fully digested food imparts energy and a sense of lightness, reflected in features such as deha laghutva, prasruta vinmūtra, and hṛdī suvimāla. Aligning meals with natural hunger and biological rhythms prevents

the formation of āma and associated discomforts such as weakness, indigestion, and lethargy. It also enhances mental clarity, alertness, productivity, and supports professional, academic, and spiritual pursuits.

From the standpoint of **Vyādhi Pratiṣedha (disease prevention)**, consumption of food only after complete digestion prevents āma formation, chronic ajīrṇa, and various lifestyle disorders including obesity, diabetes, acid reflux, irritable bowel syndrome, arthritis, and autoimmune conditions. Maintenance of balanced digestion preserves the integrity of srotas, preventing chronic obstruction-related disorders such as metabolic syndrome and hypertension. Proper digestive function also contributes to psychological and emotional stability, promoting resilience, equilibrium, and cognitive clarity.

Discussion on Āhāra Kāla

A) Based on Jīrṇa Āhāra Lakṣaṇa

Assessment of jīrṇa āhāra lakṣaṇas is essential to determine complete digestion before the subsequent meal. The term “hi”[22] emphasizes that the proper manifestation of these lakṣaṇas alone defines the appropriate āhāra kāla. Observance of these signs underscores the importance of consuming food in mātrāvat quantity and adhering to dietary regulations, thereby establishing timely eating as the central principle of āhāra vidhi vidhāna[23].

Prasṛṣṭa vinmūtra refers to normal, unobstructed urination and smooth, regular bowel movements without discomfort, straining, or abnormal consistency. From a modern perspective, this reflects healthy gastrointestinal motility, balanced nutrition, adequate hydration, and normal urinary and renal function. Stool types 3–4 on the Bristol Stool Chart[25] correspond to this ideal bowel condition[24].

Vāte anusarati denotes easy, mild, and non-offensive passage of flatus following complete digestion, indicating balanced gut fermentation and healthy colonic motility. Undigested food may produce foul-smelling or uncomfortable flatus, suggesting incomplete digestion and the need to await gastric emptying, typically 4–6 hours, before the next meal, paralleling modern digestive physiology[26].

Kṣudh upagamana and agnau udrikta indicate genuine physiological hunger and activation of digestive fire following complete digestion, signalling readiness for the next intake. This distinction between true hunger and psychological craving aligns with modern concepts such as reactivation of the migrating motor complex, ghrelin-mediated appetite regulation, hypothalamic hunger centres, blood glucose dynamics, salivary secretion, and gastric contractions[27].

Viśuddha udgāra signifies clear belching, reflecting adequate digestion and painless release of gastric gas. In contemporary terms, this parallels physiological eructation that maintains lower oesophageal sphincter competence, prevents gastric distension, and supports gastrointestinal motility.

Viśadakarāṇa denotes clarity of perception and mental calmness following complete digestion. Modern correlations include efficient cerebral processing, balanced neurotransmitter activity, and psychophysiological stability dependent upon proper nutrient assimilation and absence of metabolic toxins[28]. Thus, complete digestion ensures doṣa balance, proper dhātu nourishment, and systemic homeostasis, linking gastrointestinal efficiency with cognitive, sensory, and emotional well-being.

B) Based on Anna Kāla

When interpreted in relation to agni bala, eka and dvi annakaala represent structured meal timings aligned with

digestive capacity. Proper manifestation of jīrṇa āhāra lakṣaṇas occurs when one consumes mātrāvat āhāra according to agni bala, making anna kāla a contextual application within the broader framework of jīrṇa āhāra lakṣaṇas, which also includes agnau udrikta.

The rationale behind dvi annakaala may lie in preserving digestive efficiency by preventing overburdening of agni; two principal meals spaced according to digestive duration may be sufficient. However, considering contemporary lifestyle patterns and metabolic demands, a model of three annakaalas may be pragmatically suggested, provided they are regulated according to individual agni bala.

C) Based on Āhāra Kāla with Respect to Yāma

From the perspective of yāma, it may be inferred that a minimum interval of three to four hours should be maintained before the next meal, based on the view that food should not be consumed within three hours and another view that digestion may take up to four hours. While this may appear as a scheduled guideline, it does not imply that food should be taken strictly according to fixed timing alone; rather, jīrṇa āhāra lakṣaṇas must be assessed prior to intake.

Yāma-based āhāra kāla may be considered in two contexts: after waking in the morning and after each meal. The expression “जीर्णजीर्ण निरूपयन्” suggests careful assessment of digestion through manifested lakṣaṇas such as urge for evacuation, abdominal lightness, and clarity of senses. After awakening, physiological activation occurs analogous to a lotus blooming with sunlight; hṛdaya and srotas become stimulated through vyāyāma, vicāra, and bodily movement. In this context, food may be taken approximately three hours after the development of jīrṇa āhāra lakṣaṇas, but not beyond six hours. This interval likely accommodates the performance of

dinacaryā before the first meal. It also implies that ideal physiological functioning would allow development of jīrṇa āhāra lakṣaṇas both after waking and after subsequent meals.

Even where fixed meal intervals are described, proper manifestation of digestive signs remains essential.

Table No. 4: Yāma-Based Āhāra Kāla with Respect to Agni and Jīrṇa Āhāra Lakṣaṇas

Criteria	Jīrṇa āhāra kāla seen between 3–4 hours	Jīrṇa āhāra kāla seen between 4–5 hours	Jīrṇa āhāra kāla seen between 5–6 hours
Agni	Possibility of Tīkṣṇāgni or Viṣamāgni	Possibility of Viṣamāgni	Possibility of Mandāgni or Viṣamāgni
Āhāra mātṛā	Mātrāvāt or hīna mātṛā āhāra	Mātrāvāt, hīna mātṛā, or atī mātṛā	Atī mātṛā or mātrāvāt āhāra

If certain jīrṇa āhāra lakṣaṇas appear within three hours, it may indicate atyagni, intake of hīna mātṛā āhāra, or underlying pathological conditions. Conversely, if these lakṣaṇas are observed beyond six hours or remain absent even

after six hours, this may suggest alpāgni, āma formation, agnimāndhya, or other disease states. Thus, interpretation of yāma-based intervals must always be contextualized with agni bala and clinical presentation.

Possibility of jīrṇa āhāra lakṣaṇa outcomes with respect to āhāra-svabhāva, gurvādi guṇas and pañcabhūtika composition

The manifestation of jīrṇa āhāra lakṣaṇas can be analysed in relation to the inherent nature of food (āhāra-svabhāva), its gurvādi guṇas and its pañcabhūtika predominance. The following table summarizes the probable digestive outcomes:

Table 5: With respect to āhāra-svabhāva, gurvādi guṇas and pañcabhūtika composition

Sl. No	Gurvādi guṇa	Pañcabhūtika composition	Laghu prakṛti / Guru prakṛti of āhāra
1	Guru	Ṙṥthvī	Guru
2	Laghu	Vāyu, Agni, Ākāśa	Laghu
3	Śīta	Vāyu, Āpya	Neither guru nor laghu
4	Uṣṇa	Agni	Laghu
5	Snigdha	Āpya	Guru
6	Rūkṣa	Agni, Vāyu	Laghu
7	Manda	Ṙṥthvī, Āpya	Guru
8	Tīkṣṇa	Agni	Laghu
9	Sthira	Ṙṥthvī	Guru
10	Sara	Vāyu	Laghu
11	Drava	Āpya	Guru
12	Mrdu	Ākāśa, Āpya	Neither guru nor laghu
13	Ślakṣṇa	Ākāśa	May be laghu
14	Viśada	Agni, Ṙṥthvī, Vāyu	Neither laghu nor guru
15	Khara	Ṙṥthvī, Vāyu	Neither laghu nor guru
16	Sūkṣma	Ākāśa, Agni, Vāyu	Laghu

17	Sthūla	Pṛthvī	Guru
18	Kaṭhina	Pṛthvī	Guru
19	Sāndra	Pṛthvī	Guru
20	Picchila	Āpya	Guru

From the above, substances possessing guru, manda, sthira, sthūla, kaṭhina, sāndra and picchila guṇas, predominantly constituted of pṛthvī and āpya mahābhūtas, tend to delay digestion and the manifestation of jīrṇa lakṣaṇas. In contrast, laghu, rūkṣa, tīkṣṇa, sara and sūkṣma guṇas, dominated by vāyu, agni and ākāśa, promote quicker digestion. Certain guṇas such as śīta, mṛdu, viśada and khara exhibit variable outcomes, where digestion may or may not be delayed depending primarily on the state of agni.

In such variable situations, agni assumes a decisive role. If the individual possesses tīkṣṇāgni, digestion occurs without delay even when food is relatively heavy. In the presence of mandāgni, digestion is delayed or absent. Under viṣamāgni, digestion becomes irregular, and here assessment of āhāramātrā becomes crucial. Thus, the dominance influencing proper jīrṇāvasthā can be understood as: Agni > Mātrā > Āhāra-Svabhāva.

Possibility of jīrṇa āhāra lakṣaṇa outcomes with respect to āhāra-svabhāva and agni

The interaction between food nature and digestive strength further clarifies digestive outcomes:

Table 6: With respect to āhāra-svabhāva and agni

Sl. No	Āhāra-svabhāva	Agni	Development of jīrṇa āhāra lakṣaṇa
1	Guru	Tīkṣṇāgni	Immediate and without delay
2	Laghu	Tīkṣṇāgni	Immediate and without delay
3	Guru	Mandāgni	Delayed/absent
4	Laghu	Mandāgni	Delayed/absent
5	Guru	Viṣamāgni	Sometimes delayed and sometimes immediate

These observations reinforce that although āhāra-svabhāva and mātrā influence digestion, agni remains the primary determinant of timely manifestation of jīrṇa lakṣaṇas.

There are additional factors influencing āhāra kāla beyond food attributes alone. Among them, dinacaryā occupies a significant position in regulating and preserving agni. Ayurveda clearly states that immediately upon waking, one should

perform jīrṇājīrṇa nirūpaṇa[15], highlighting that assessment of digestive status precedes intake of the next meal.

Discussion on influence of dinacaryā on āhāra kāla

After waking during brāhma muhūrta[16], one should evaluate whether the previous meal has been digested. Night-time improperly digested food is considered particularly harmful because the srotas remain relatively inactive during

sleep, favouring kleda accumulation; hence, morning assessment is essential for regulating hunger and appropriate meal timing.

Dantadhāvana[17], jihvā nirlekhana[18], tāmbūla carvaṇa[19] and gaṇḍūṣa aid in removing dantamala and kapha upalepa, enhancing taste perception and stimulating salivary secretion, thereby kindling agni and supporting proper āhāra kāla. These practices prevent false sensations of oral heaviness and improve appetite regulation.

Abhyaṅga[20] facilitates bowel evacuation, improves circulation and prevents vāta prakopa that may arise from subsequent vyāyāma[21]. By assisting in maintaining unobstructed srotas, it indirectly enhances gastrointestinal motility and digestion. Vyāyāma, performed ideally during kapha kāla in the morning, imparts laghutā and uṣṇatā, reducing kapha through viśeṣa and enhancing agni through sāmānya, thereby facilitating proper manifestation of jīrṇa āhāra lakṣaṇas.

Snāna[22] should be undertaken only after clear signs of digestion appear. Warm snāna after digestion supports agni due to similarity in guṇas, whereas cold bathing immediately after meals may suppress digestive fire because of opposing qualities. Hence, bathing practices also influence āhāra kāla when viewed through sāmānya–viśeṣa siddhānta.

Dinacaryā regimens are prescribed as mandatory daily observances intended

to regulate biological rhythm. Consistent adherence ensures maintenance of circadian balance, optimal digestive efficiency and appropriate timing of meals. Contemporary research on chrononutrition similarly emphasizes synchronizing daily routines, physical activity and meal timing with internal biological cycles to optimise metabolic health.

The cross-sectional study conducted as part of postgraduate Ayurvedic research assessed the importance of āhāra kāla in food consumption, further supporting classical principles through observational findings.

Conclusion

Āhāra kāla, or appropriate timing of food intake, is a fundamental determinant of digestive efficiency, doṣa equilibrium and overall physiological well-being. Assessment of jīrṇa āhāra lakṣaṇas provides practical and individualized indicators of complete digestion, ensuring that subsequent meals are consumed at optimal times and preventing āma formation. Among influencing factors, agni holds primary importance, followed by mātṛā and āhāra-svabhāva. Adherence to dinacaryā practices—including early rising, dantadhāvana, jihvā nirlekhana, abhyaṅga, vyāyāma and appropriately timed snāna—regulates agni, supports gastrointestinal function and ensures proper digestive progression. Integration of these principles with individualized assessment aligns classical Ayurvedic wisdom with modern

understanding of circadian regulation and digestive health, underscoring the

continued relevance of āhāra kāla in contemporary dietary science.

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