



Ayurvedic Perspectives on Drug Administration Timings: A Review Based on Classical Texts and Modern Research

Kumar V^{1*}

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^{1*} Vipin Kumar, Associate Professor, Department of Dravyaguna Vigyana, Bhagwant Ayurvedic College and Bhagwant Hospital, Muzaffarnagar, Uttar Pradesh, India.

The timing of drug administration plays a crucial role in Ayurveda, as it influences the efficacy, absorption, and therapeutic action of the medication. Various Acharyas, including Charaka, Sushruta, Vagbhata, and Sarngadhara, have elaborated on the importance of drug administration timings based on the individual's condition, digestive state, and disease progression. This review aims to compile and analyze the principles of drug administration timing as per classical Ayurvedic texts and their relevance in modern practice, particularly in the context of chronotherapy and circadian rhythms.

Keywords: Ayurveda, Drug Administration Timing, Charaka, Sushruta, Vagbhata, Sarngadhara, Aushadha Kala, Chronotherapy, Circadian Rhythms

Corresponding Author	How to Cite this Article	To Browse
Vipin Kumar, Associate Professor, Department of Dravyaguna Vigyana, Bhagwant Ayurvedic College and Bhagwant Hospital, Muzaffarnagar, Uttar Pradesh, India. Email: vipin1985tomar@gmail.com	Kumar V, Ayurvedic Perspectives on Drug Administration Timings: A Review Based on Classical Texts and Modern Research . J Ayu Int Med Sci. 2025;10(6):264-266. Available From https://jaims.in/jaims/article/view/4262/	

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Introduction

In *Ayurveda*, concept of *Aushadha Kala* (timing of drug administration) is significant, as it directly affects pharmacokinetics & pharmacodynamics of herbal formulations. Principles of *Aushadha Kala* are tailored according to *Dosha* imbalance, *Agni* (digestive fire), *Vyadhi Avastha* (stage of disease), & patient-specific factors. Different *Acharyas* have provided guidelines for administering medicines at specific times to maximize their therapeutic potential. Modern research has also explored imp. of circadian rhythms & chronotherapy on drug efficacy, further validating ancient *Ayurvedic* principles.

Drug Administration Timings According to Different Acharyas

Charaka Samhita[1]

Acharya Charaka has detailed various *Aushadha Kalas* in relation to food intake and disease conditions:

Abhakta (Empty Stomach): Ideal for chronic diseases and quick action of medicine. It ensures rapid absorption without interference from food.

Pragbhakta (Before Meals): Best for *Vata* disorders and when nourishing or *Rasayana* medicines are required. Stimulates appetite and clears obstruction.

Madhyabhakta (During Meals): Enhances digestion and is useful in *Pitta* disorders. Prevents irritation and aids assimilation.

Adhobhakta (After Meals): Beneficial for *Kapha* disorders and digestion-related ailments. Slows down metabolism for sustained drug action.

Antarabhakta (Between Meals): Useful in chronic conditions needing continuous therapeutic effect.

Samudga (Before and After Meals): For diseases requiring prolonged and sustained medication.

Sushruta Samhita[2]

Acharya Sushruta emphasized the importance of timing in surgical and post-surgical care. He classified *Aushadha Kala* based on *Tridosha* dominance:

Morning Administration (Pratah Kala): Recommended for detoxification (*Shodhana*) therapies.

The body is inclined toward elimination in the early hours. Medicines like *Virechana* and *Anulomana* are best given now.

Noon Administration (Madhyahna Kala): Suggested for stimulating *Agni* and managing *Pitta* disorders. At this time, digestive fire is naturally strong.

Evening Administration (Sayam Kala): Ideal for *Vata*-balancing and *Brimhana* (nourishing) therapies. The nervous system is more receptive.

Night Administration (Ratri Kala): Suitable for *Kapha*-pacifying and sedative therapies. Promotes calmness, sleep, and mental stability.

Ashtanga Hridaya (Vagbhata)[3]

Acharya Vagbhata refined earlier classifications and introduced time-based guidelines for all *Doshas*:

Before Sunrise: Useful in *Kapha* disorders due to natural increase of *Kapha* at this time.

Mid-Morning: Recommended for *Pitta* pacification and cooling therapies.

Noon: Enhances digestion and metabolism, supports nutrient absorption.

Afternoon: Supports *Brimhana* and *Balya* treatments. The body prepares for rest and repair.

Evening: Best for *Vata* disorders due to the natural increase of *Vata* in the late day.

Night: Suitable for mental disorders, sleep aids, and calming *Rasayanas*.

Before and After Food: Balanced drug absorption with meal-dependent therapy.

During Food Intake: Helps synergize with diet for better bioavailability.

Sarngadhara Samhita[4]

Acharya Sarngadhara presented detailed pharmacological insights:

Nishi (Night): Ideal for *Rasayana* and *Medhya* drugs like *Brahmi*, *Ashwagandha*, *Mandukaparni*.

Pratah (Morning): Recommended for laxatives, detoxification, and metabolic regulation.

Madhyahna (Noon): Enhances digestive action, best for *Pitta*-related conditions.

Sayamkala (Evening): Supports calming the mind, regulating digestion, and managing *Vata* imbalance.

Expanded categories of *Aushadha Sevan Kala*

Agni Avastha Anusar Kala: Based on digestive strength (*Tikshna, Manda, Sama Agni*). Strong *Agni* allows for heavier and complex medications.

Vyadhi Avastha Anusar Kala: Acute vs. chronic. Acute conditions need prompt administration (*Abhakta*), chronic may need prolonged *Kala* (*Samudga*).

Ritu Anusar Kala (Seasonal Consideration): For example, in *Varsha Ritu* (monsoon), digestion is weak, so *Deepana-Pachana* drugs are preferred.

Desha Anusar Kala: Depending on geographical region (*Anupa, Jangala*), *Dosha* predominance changes, modifying *Aushadha Kala* accordingly.

Avastha Anusar Kala (Condition of the Patient): Age, strength, mental state, digestive power, and constitution determine optimal time.

Correlation with Modern Research

Modern pharmacology & chronotherapy align with *Aushadha Kala*. [5-7] The circadian rhythm regulated by suprachiasmatic nucleus controls hormone levels, digestion, & drug metabolism. Studies support that medications like antihypertensives, anti-asthmatics, & sedatives exhibit better efficacy when administered according to biological clock principles.

Discussion

The classical *Ayurvedic* approach to drug administration timing aligns with chronotherapeutic practices. [8] By harmonizing drug intake with biological rhythms, patient outcomes can be improved, minimizing side effects and enhancing compliance. Advanced modeling and clinical trials can further establish the value of *Aushadha Kala*.

Conclusion

The principles of drug administration timing, as laid down by *Charaka, Sushruta, Vagbhata*, and *Sarngadhara*, remain highly relevant. Their resonance with circadian pharmacology validates *Aushadha Kala* scientifically. Future integration with modern clinical protocols may bridge traditional knowledge with evidence-based medicine.

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