

World Journal of Pharmaceutical and Life Sciences WJPLS

www.wjpls.org



SIGNIFICANCE OF AUSHADA SEVANA KALA AND ITS CLINICAL INTERPRETATION

Murari Vaishnavi*1 and Abdul Khader2

¹PG Scholar, Department of Kayachikitsa, Sri Khalabayraweshwara Swamy Ayurvedic Medical College Hospital and Research Center, India.

²Proffesor, Department of Kayachikitsa, Sri Khalabayraweshwara Swamy Ayurvedic Medical College Hospital and Research Center, India.



*Corresponding Author: Murari Vaishnavi

PG Scholar, Department of Kayachikitsa, Sri Khalabayraweshwara Swamy Ayurvedic Medical College Hospital and Research Center, India.

Article Received on 02/11/2024

Article Revised on /12/2024

Article Accepted on 23/12/2024

ABSTRACT

Ayurveda has given importance to trisutra. Trisutra includes hetu, linga, aushada. Aushada is one of the chikitsa chatushpada. For maximum efficacy of aushada it has to be administered at proper time, hence the concept aushada sevana kala has to be taken into consideration. Kala is causative factor for all effects. kala is categorized as nityaga and awasthika kala. Aushada sevana kala comes under awasthika kala. Kala for therapeutic management is considered as Shad avekshana kala and Aushada sevana kala. Aushada sevana kala is explained in relation to roga and rogi bala, veerya of drug, doshic rythums, involvement of dosha in vyadhi, ahara jeerna lakshans and various other factors, eventhough this unique concept has described in ayurveda, only few physcians practice it. Hence this present article highlight the importance of aushada sevana kala in chikista, its indication and contraindications and how to understand with modern concepts.

KEYWORDS: Aushada sevana kala, Bheshaja, Chronobiology.

INTRODUCTION

Aushadha means which holds potency. Sevana means to consume, Kala means time. Aushada sevana kala means time at which of drug can be administered. Bhaishajya kala, aushadha kala, aushadhavekshan kala, aushadha avcharan kala, agad kaala, bhaishajya Bhaishajya graham kala are synonyms of Aushada Charaka^[1], Acharya kala. Sushruta^[2]. sevana Vagbhata^[3], Kashyapa^[4] has described 10 Aushadha sevana kalas. Ashtanga sangrah^[5] has described 11 Aushadha sevana kalas. Acharya Sharangadhara^[6] has described 5 Aushadha sevana kalas.

1. Abhakta: Abhakta means administration of aushdha alone. Synonyms of abhakta are niranna, ananna, nirbhukta, suryodaya jate, buktadu and they are named on kala in realtion to food. charaka mentioned niranna under buktadu. Niranna is not mentioned in charakasamhita separately. In abhakta, bheshaja should be administered 1yama[3hrs] after sunrise^[7], after assessing digestion of previous night meal, then after assessing aushadha jeerna lakshanas^[8], next annakala should be admisiterd. Chakrapani has commented that bheshaja should be given before breakfast in the morning and then before food in day. Hemadri has

commented that *bheshaja* should be given in *kapha udreka gata kaala*. *Kapha kala* is one third part of day, the later half is one third part is kapha udreka gata kaala and the medicine is aministered when *kostha* is deviod of *kapha*.

Indications: Balavan rogi, Balavan vyadhi, panchavidha kashaya kalpanas, in pitta and kapha udreka gata kala vamna and virechna drugs has to be administered, for lekhanartha, for krushikaranartha, in medhorogas, for danthadawanartha and in kapha rogas.

Contraindications: To avoid *glani* and *bala kshaya* it is contraindicated in children, aged, women, who cannot withstand the potency of medicine. In these person medicine is advised to take along with with food.

Mode of action^[9]

In *Abhakta kaala*, medicine has to be administered in empty stomach so that medicine directly come in contact with *agni*. In *Abhakta kaala*, *amashaya* is free from obstruction and *kapha* will be in aggravated state thus the digestive fire digests the medicine completely and one gets the maximum benefits of the medicine and helps in accomplishment of *sapdhatu prashastava*, hence useful

www.wjpls.org Vol 11, Issue 1, 2025. ISO 9001:2015 Certified Journal 110

for rasayana sevana.

Examples: bhallataka guda-arshas.[10]

2. Prakbhakta: Acc to commentator *Indu bheshaja* should be administered just before food intake [tatkalameva]. Prak bhojana, bhojana agre, poorva bhaktashaya are used as synonyms

Indications: *Apana vata vikruthi*, for strengthening lower part of body, diseases of lowerpart of body, obesity.

Mode of action

Medicine administered in this kala will get digested quickly without affecting the bala of person. As medicine will get covered by food, there will be no regurgitation of food. It will help to cure the diseases of *apana vata vikruthi*. [9]

Example: Naracha churna-udavarta[prakbhakta]^[11]

3. Madhya bhakta: Administration of medicine in between the food is madhya bhakta. After intake of half of the food medicine is advised to consume later remaining portion of food is advised to consume. *Acharya susrutha* has told that form of medicine should be in liquid form. *madhyabhojanam, madhye* are used as synonyms.

50% food intake ⇒ bheshaja ⇒ remaining food intake Indications: 1. *samana vata vikruthi2. kosthagata vyadhis 3. paittika vyadhis*

Mode of action: Due to covering of food, *aushada* attain *avisari bhava* and acts on *samana vata*, *pitta* and *kostha gata vyadhi* and cause *agni deepana*.^[9]

Example: Avipattika churna-amlapitta[madyabakta]^[12]

4. Adhobhakta: Acc to commentator hemadri & indu in adhobhakta, bheshaja is to be administered immediately aftermeals. Here ubhaya kala prayoga is told. For vyana vata vikruti bheshaja should be administered in morning after intake of food. For udana vata vikruti bheshaja should be administered in morning after intake of food. Pashchatbhaktam is used as synonym. Indications: vyana vata vikruti, udana vata vikruti, urokantashirogada.

Mode of action

This *kaala* is mainly advised in case of *vyana vata vikruti*. Here medicine is administered in the morning because the site of *vyaana vayu* is considered to be *hridaya*. *Acharyas* have stated that as every flower blooms in the morning everyday similarly every morning heart also blooms, activating *vyana vayu* in it. Thus the medicine administered in the morning will reach *hridaya* and will act properly on *vyana vaayu*. In this *Kaala* medicine should be administered after meal, as the *vyana vayu* gets activated after the digestion of food and formation of *aahara rasa*. Thus the administered medicine is carried along with the vyana vayu and helps to cure the diseases related with *vyana vayu*. [9]

5. Sabhakta: Sabhakta means administration of medicine

along with food. *Sabhaktakaala has* two modes of administration of *bheshaja*. In the first method *bheshaja* is to be mixed with food while preparing the food, in the second method bheshaja is to be mixed after prepation of food. Indications: 1. women, children, aged, personwith less strength, persons who has aversion towards medicine, *aruchi, sarvangagatharogas*, In *mandagni* for *agnideepanartha*, for *manobalkaranartha*. [9]

Mode of acton: In this *kaala* medicine is adminidtered by mixing along with food, thus when the food undergo *paaka* and gets converted into *ahara rasa*, the medicine also gets *paaka* and its extract comes along with aahara rasa, medicine along with *ahara rasa* gets circulated in the body and helps to cure diseases all over the body and helps to mask the strong taste and smell of medicines. ^[9]

6. Antharbhakata: Administration of food in between two meals is called antharbhakata. The first antarabhakta is during daytime, where as next is one yama followed by the digestion of evening food as opined by commentator indu, which is same as that of nishi (night). Here after assessing the ahara jeerna lakshans of previous annakala, bheshaja is to be administered, after metabolism of beshaja again food has to be taken in the evening. In this kala, ahara jeerna and aushada jeerna lakshanas plays an important role. bhaktayormadhye is used as synonym.

Indications: For deepanartha, jatrurdhwaroga, ir mandagni

Mode of action: Due to *madhyahna i.e, pittakala, agni* is in a stimulated condition, so *bheshaja* is properly metabolised in this *kala*. ^[9]

7. Samudga

Administration of *bheshaja* before and after food. *Bheshaja* should be consumed immediately in relation to food. *Bheshaja* acts as *samudga* [box] for *ahara*. Here *ahara* taken should be light food.

Indications: Hikka, kampa, akshepa, urdwa-adho pravisrutha doshas, pachana lehyas and churnas can be administered. In hikka doshas are sutivated in urdwa and adho shareera. Medicine administered in this kala may have its effect on apana, vyana, udana vata Example: avapidaka senha pana. [13]

Mode of action

- Acharya Dalhana have told the word piyate in context with samudga kaala which explains that the medicine must be in liquid form so that food is put in like a box
- ✓ No specific *dosha dushti* is indicated for this *kaala*.
- Some conditions such as pravisruta, urdhwa and adho visruta dosha, hikka roga, kampa, akshepa, urdhva kayagata vikaras etc are stated in which dosha dushti is found in urdhwa as well as adho sharira. [9]

8. Muhurmuhur

Muhurmuhur means again and again. In muhurmuhur, bheshaja is frequently administered with or without food to maintain the effect throughout. Hence this kala can be broadly divided into two types 1.sabhaktamuhurmuhur 2.abhakta muhurmuhur. [9]

Indications

1.Pranavahasrothas:- Shwasa, kasa, hikka

2. Udakavahasrothas: - Trishna 3.Annavahasrothas: -chardi,visha Example: Pushkaramulasava^[14]

9. Sagrasa: Here bheshaja is to be mixed with each morsel of food

Indications: For *vajeekaranartha*, the medicine used can be in the form of *churna*, *leha*, *vatka*. *for agnideepanartha*, *in ksathaksheena and alpasukhra*

Mode of acton^[9]

- Sagrasa bheshaja facilitates absorption of the bheshaja right from the buccal mucosa.
- High concentration of drug in systemic circulation offers rapid onset of action.

- Deglutation is the function of *pranavata*, when medicine is administered in *grasa* form medicine comes in contact with *pranavata*. hence disease related to *pranavata* can be treated easily
- Due to *ruksha guna* of *churna* it increase *agni*. Examples *-hingwastakachurna -agnimandya*^[15]

10. GRASANTHARA

Administration of *bheshaja* in between each bolus of food. It is indicated in *pranavata vikruti* like *swasa*, *kasa*, *trishna*, *hikka* and in *hrudroga*.

Mode of acton: It helps in correcting the *gati vikruti* of *vata dosha* by promoting *anulomana* of *vata dosha*.^[9]

11. NISHI

Acc to commentator *indu nishi kala* is time after evening meal is digested and 3hours has passesed. *Swapna kale, ratri* are used as synonyms

Indications: Inurdhwajatrugata vikaras for pachana and shamana, In sanchaya avstha for brimhanartha, In pravruddhavastha for lekhanartha

Example: krishnadichurna-shwasa^[16]

Example of change in pharmacokinetics of drug when administered at different timings

1. Ksheera^[17]

Kala	Effects
Poorvahne	Balya, Brimhana, Agni pradeepana
Madhyahne	Baladayaka,Ruchikara,Mutrakrichra and Ashmari roga nashaka
Ratri	Aneka dosha shamana

2. Relation between brimhana snehapana and food^[18]

between of himiana shenapana ana 100a	
Snehapana	Effects
Before meal	Gives strength to <i>uru</i> , <i>jangha</i> and <i>kati</i> , <i>vata anulomana</i> cures diseases of lower limbs
Middle of meal	Enhances agni bala, gives strength and stability,reduces kukshi sula
After meal	Enhances stability of sense organs, Cures disorders of head and neck.

Factors for deciding aushadha sevana kaala

- 1. Biological rhythms of dosha
- 2. Food and drug interactions
- 3. Type of vata dosha like prana vata etc.,
- 4. Vaya
- 5. Bala of person.

Modren approach^[19]

Similar kind of drug administration is also mentioned in contemporary science based on

i. FOOD-DRUG INTERACTIONS

- 1. Possible effects of food -drug interaction
- 2. Interluminal Ph
- 3. Gastric emptying time and Intestinal transit time

ii.CONCEPT OF CHRONOBIOLOGY^[19] (chronos - time, bios -life, logos -study).

Introduction

- Most facets of mammalian physiology and behavior vary according to timeof-day, thank to an endogenous "circadian" clock.
- Circadian clocks influence all major organ systems, and this influence translates directly the disease pathology that also varies with time of day.
- The basic unit of circadian clock
- 1. Supra chiasmatic nucleus
- 2. Clock genes

Definition

The branch of science focusing on biological rhythms and their mechanisms.

Biological rhythms

- Circadian: lasting for about 24 hours.-sleep wake cycle
- Infradian: cycles longer than 24 hours and shoter than 6 days

- Ultradian: cycles shorter than a day
- Seasonal: seasonal affective disorders.

Chronopharmacokinetics

- It deals with the study of the temporal changes in the pharmacokinetics of the drugs with respective time.
- Study of absorption, distribution, metabolism, and excretion of drug according to the time of the day or year.

DISSCUSSION

Different Acharyas have mentioned different number as well as different name of aushadha sevana kala, but all of them define a same meaning behind them. Aushadha sevana kala explained by Acharyas seems to be based on the routine we follow in a day from morning to night along with the predominance of dosha, as it is observed that all acharyas told first aushaha sevana kala as abhakta and last one observed as nishi. Examples with clinical interpretation.

Bhallataka guda prayoga in arshas has mentioned to be taken in abhakta kala based on agni with a dose of 2-4 gm. Abhakta kala prayoga can be done in chronic diseases. Swabhava of arshas vyadhi is chirakari and guda kalpana is almost similar to avaleha. Avaleha's are adivsed to take before food in adhogata rogas, as they are heavy to digest hence they are adivised to taken in empty stomach for proper digestion and to have rasayana effect.

Naracha churna advised in udavarta has an indication for prakbhakta kala. it is mainly indicated in purisha vega avarodha janya udavarta. Here the type of vata involved is apanavata. Hence it is advised to take before food with dose of 6-12 gm of churna with madhu.when food is taken immediately after administration of medicine, food pushes down the aushadha downwards, so aushadha reaches the site of apana vata vikruti faster than any other administration.

Avipattikara churna is advisded to take with dose of 3-6gms with ushnajala in amlapitt. This churna has direct indication for madyabhakta and bhojanadhu. Amlapitta is pittapradhana vyadhi, here pitta involved is pachakapitta and vata involved is samana vata, udana vata. Heredue to covering of food, aushada attain avisari bhava and acts on samana vata, pitta and kostha gata vyadhi and cause agni deepana.

Adhobhakta is mainly indicated in vyana vata and udana vata. Acharyas have stated that as every flower blooms in the morning everyday, similarly every morning heart also blooms, activating vyana vata in it. Thus the medicine administered in the morning will reach hridaya and will act properly on vyana vata. Similarly in the evening the action of vyana vata is taken over by udana vata hence for udana vata disorders bheshaja has to be administered in the evening.

Sabhakata is mainly indicated for children, who have

lesser strength and women to adviod glani and balakshaya. When bheshaja is administered in *sagrasa* kala facilitates absorption of the bheshaja right from the buccal mucosa and helps to maintain high concentration of drug in systemic circulation offers rapid onset of action. *GRASANTHARA* helps in correcting the *gati vikruti* of *vata dosha* by promoting *anulomana* of *vata dosha*.

Muhurmuhurprayoga of puskaramulasava is done in tamakaswasa.when drug is repetedly administered at regular intervals maintains a steady concentration of drug in bloodstream and helps to sustain the desired therapeutic effect over an extended period.

Nisi is mainly indicated in urdhwajatrugatarogas. krishnadichurna along with ardraka swarasa is advised to take during night times in shwasa. According to chrono-pharmacology acute attack of asthma will be more common during midnight to early mornings hence they advice theophylline for nocturnal asthma, elevated theophylline concentration during night time reduce the risk of attack.tamaka shwasa told in ayurveda classics seems to be identical with description of bronchial asthma may helps to reduce the risk of attack during night times.

Avapidaka senha pana is mainly indicated in mutravegavarodhajanya vikakars. Here two doses of sneha is administered. First dose is before food and second dose is after food. Pragbhakta oushadha acts up on the apana vata which is vitiated due to the suppression of mutra vega & symptoms are seen in the lower abdomen or pelvic region. jeernantika oushadha when given after the digestion of previous food may acts up on the vyana vayu which is sarva dehachari & the medicine pacifies the condition which are present in other parts of body like angabhanga, shirasoola etc. this site specificity is provided by the time of administration of medicine. [39]

Hence the evaluation of type of *vata*, *jeernalinga of ahara and aushadha*, *vyadhi*, *desha* plays important role in deciding time of drug administration. Potency of *aushadha* also plays an important role in *aushadha sevana kala*. *Aushadha sevana kala* is not applicable when the medication is administered via a route other than oral route. *Aushadha sevan kala* is not applicable in case of *atyayika chikitsa* [one cannot wait for muhurta of the drug administration, that emergency itself indicates the time]. *Aushadha* sevana kala helps us to tackle disease at its most active phase, by precising drug intervention when doshas are at its peak and thus helps prevent irrational usage of drugs throughout the day thereby reducing the drug intake, thus maximum bioavailability of the drug was the prime consideration.

CONCLUSION

Aushadha sevan kala can be correlated with pharmacodynamic profile of drug40.In comparision with both sciences we got both similarities and dissimilarities

too.So both sciences are standing on the principles and aims to increase the treatment efficacy. So, it is more important that we should take consideration of aushadha sevan kala while administration of drug to increase the treatment efficacy. Vaidya with a thorough understanding of *aushadha sevan kala* can treat patients more effectively and achieve better disease outcomes.

REFERENCES

- 1. Agnivesha, charaka, charaka samhita, chikitsa sthana, yonivyapat chikitsa adhyaya, 30. Pandey GS, editor. 8th edition. chaukhambha Sanskrit samsthana, Varanasi, 2004.
- Sushruta, Sushruta samhita, uttar tantra. swasthopkrama adhyaya, 64. Acharya JT, editor. Reprint 1st edition. Chaukhmbha surbharati prakashana, Varanasi, 2003.
- Vagbhata, ashtang hridaya, sutra sthana, doshopakramaniya adhyaya, 13. Paradkar HS, editor, reprint edition. Chaukhambha surbharti prakashana, Varanasi, 2002.
- Pandit Hemraja Sharma, Satyapal Bhisagacharya.
 Vrddha Jivaka, Kasyapa Samhita, khila Sthan 3.
 Chaukhamba Sanskrit Sansthan; Varanasi, Reprint, 2015.
- Indu, commentator, sangraha, sutra sthana, bheshajawacharaniya adhyaya, 23, Sharma SP, editor, 1st edition. Chaukhambha sansrit series office, Varanasi, 2006.
- 6. Sharangadhara, sharangadhara samhita, prathama khanda2-12:18, Ptparashuram shastri editor, 1st edition. Chaukhambha surbharati prakashana, Varanasi, 2006.
- 7. Sharangadhara, sharangadhara samhita, prathama khanda2-4:18, Ptparashuram shastri editor, 1st edition. Chaukhambha surbharati prakashana, Varanasi, 200616.
- 8. Agnivesha, charaka, charaka samhita, siddhisthana sthana, vamanavirechanavyapadadhyaya, 6/26. Pandey GS, editor. 8th edition. chaukhambha Sanskrit samsthana, Varanasi, 2004.
- Junjarwad AV, Savalgi PB, Vyas MK. Critical review on Bhaishajya Kaala (time of drug administration) in Ayurveda. Ayu., Jan. 2013; 34(1): 6-10. doi: 10.4103/0974-8520.115436. PMID: 24049398; PMCID: PMC3764882
- 10. Sharma priyawat. chakradatta. Varanasi: Chaukhambha orientalia, 1994.
- 11. Sharangadhara sharangadhara samhita, madyama khanda, 6/95-96, Ptparashuram shastri editor, 1st edition. Chaukhambha surbharati prakashana, Varanasi, 2006; 16.
- 12. Kaviraj shree ambikadattashastree, Bhaishajya Ratnavali Vidyotini hindivyakhya, vimarsha, parishista samhita, 14. Amlapitta Chikitsa, 56, 25-29, Varanasi, Chaukamba publication, 2001; 644.
- 13. Vagbhata, ashtang hridaya, sutra sthana, Roganutpadaniya adhaya, 4/6-8. Paradkar HS, editor, reprint edition. Chaukhambha surbharti prakashana, Varanasi, 2002; 219.

- 14. Vaidya Mahendra Pal Singh Arya, editor, Sahasra Yoga. New Delhi: Kendriya Ayurveda and Siddha Anusandhana Parishad, 1990; 350, 621.
- 15. Vagbhata, ashtang hridaya, chikitsa sthana, Gulma chikitsa adhyaya, 14/35. Paradkar HS, editor, reprint edition. Chaukhambha surbharti prakashana, Varanasi, 2002; 219.
- 16. Vaidya Sreelakshmipathisastri, Commentator, Brahmasankarsastri editor, Yogaratnakara, mangalachara 1/860 Choukhambha prakashan varanasi, Reprint, 2003.
- 17. Krishnan K.V, Gopalan Pillai A.K. Sahasrayogam, 32nd ed. Kashaya Prakarana, verse 2. Aleppy: Vidyarambam. Publishers, 2013; 54.
- 18. Indu, commentator, sangraha, sutra sthana, Vividha darvya sangraha, 25/24, Sharma SP, editor, 1st edition. Chaukhambha sansrit series office, Varanasi, 2006.
- 19. Dr. Ashutoshtiwari, 14/02/2014, CHRONOPHARMACOLOGY, ppt, SAIMS, indore, https://www.slideshare.net/slideshow/chronopharmacology-36962170/36962170