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Review Article

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A CONCEPTUAL REVIEW ON OUSHADHA SEVANA KALA AND ITS CLINICAL SIGNIFICANCE

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ABSTRACT

The effect of a drug depends not only on the dose and mode of administration but also on the time of administration. Ayurveda always gives importance to timely administration of medicines. Our classicsstate it very clear that 'kalascha bheshjasya yogyatham adathathi'. Kala is aniyathasidha nimitta karana, hence oushadha employed in a proper kala will result in expected karya, so our acharyas explain about the kshanadi and vyadhiavastha kala while administering medicine. Many functions of human body vary throughout day and night. Doshic variations exist in respect to end, middle and beginning of the age, day, nightand digestion. The advanced research in chronotherapeutics also spread light into the above said concept to biological changes.

Keywords: Oushadhasevana kaala, Chronotherapeutics.

Introduction

Oushadha sevana kala is a very unique concept pertaining to Ayurveda. Our insights about this is more textual than practical. Our classics state it very clear that 'kalobhaishajya yoga krit', the complete action of a medicine is exerted properly only if it is administered at proper time. Many functions of human body vary throughout day and night. There will be dosha variations in respect to end, middle and beginning of the age, day, night and digestion. These *kalas* seem to be based on the routine we follow in a day from morning to night along with predominance of dosha. Ten number of oushadhasevana kala are explained in our texts whereas Acharya Sarangadhara concises it under drug dynamics. Acharya Hemadri named this kala as shamanaoushadha kala which implies that, this oushadha sevana kala should be considered while treating a patient with shamana oushadha and is not applicable in case of shodhana chikitsa. This discussion is applicable for orally administered drugs as they come in contact with agni at the first instance of drug digestion and metabolism. The classical approach is based on two annakala, however modifications may be necessary in contemporary food and diet habits asmore than two annakala are practised. The drug-food interaction and drug - drug interaction are also vital in deciding the extent of drug efficacy. The advanced research in Chronotherapeutics also spreads light into the above said concept of biological changes. *Oushadhasevana kala* is an important principle to be considered while treating a disease. Still hardly a handful of physicians are seen, who account for this. To highlight its royal role in *chikitsa* there is an immense need to analyze this concept, which is the need of the hour.

Definition: Oushadhakaala: oushadha sevanasya samaye (vaidyaka sabda Sindhu)

Synonyms: Bhaishajya kaala, bhaishajya grahana kaala, oushadha avacharana kaala, agada kaala, oushadhavekshana kalaa

Number of oushadha sevana kala according to different acharyas:

Sarangadhara samhitha	5
Charaka samhitha	10
Ashtanga hridaya	10
Sushrutha samhitha	10
Ashtanga sangraha	11

Terms as per different acharyas:

Charaka samhitha	Susrutha samhitha	Ashtanga hridaya	Ashtanga sangraha
Niranna	Abhaktha	Ananna	Abhaktha
Bhuktahdou	Pragbhaktha	Annandou	Pragbhaktha
Bhuktha paschat	Adhobhaktha	Anthe	Adhobhaktha
Bhuktha madhye	Madhyebhaktha	Madhyama	Madhyamabhaktha
-	Antarabhaktha	-	Antarabhaktha
Bhaktha samyuktha	Sabhaktha	Saanna	Samabhaktha
Samudga	Samudga	Samudga	Samudga
Muhurmuhu	Muhurmuhu	Muhurmuhu	Muhurmuhu
Grase	Grasabhaktha	Grasae grasae	Sagrasa
Grasanthara	Grasanthara bhaktha	Kabalantare	Grasanthara
-	-	Nisi	Nisi

1. ABHAKTHA

According to *Ashtanga Sangraha* medicine should be given in morning after the increased *kapha* has moved out of the stomach⁴. According to *Acharya Chakrapani, abhaktha* means in the morningbefore food and food is given only after complete digestion of medicine⁵. According to *Indu*, medicineshould be given one *yama* after sunrise⁶. According to *Hemadri oushadha* to be given in*kapha udreka gatha kala*⁷.

Indication

Balina *rogi*⁸: Patients having good strength can well tolerate the *veerya adhikya* of medicines in empty stomach.

Balina roga: Patients affected with severe diseases need stronger medicines. *Acharya Susrutha*says that medicine which is taken in empty stomach becomes more potent (*adhikaveeryavan bhavathi*) and there will be more absorption of medicine⁹.

Kaphodrekagada (diseases of *kapha*): *kaphaja rogas* will be stronger during this *kala* and administration of medicine is in *kapha kala*, so diseases related to this kala are cured well.

*Kaphodrekagatha*¹⁰: The term 'kaphodreka' means 'kaphavridhi', gatha means after kapha vridhi. According to *Indu* this is one yama after sunrise. During this time normally kapha will be in vridhavastha and agni becomes manda and there won't be proper digestion or absorption. So once theincreased kapha has moved out there will be active pitta which helps in more absorption and digestion of medicine.

Lekhanartham¹¹: ('suryodaye jate'according to Sarangadhara Acharya): kapha will be more duringthis kala in amashaya. Kapha by nature, itselfis sticky so only lekhana drugs can remove kapha, andalso due to ashrayashrayi bhavaof medo dhathu and kapha doshafor lekhanartha this kala is indicated.

Contraindication¹²: Bala, vrudha, stree as these persons cannot with stand the potency of medicines whenit is given in empty stomach, it will produce complications like glani, balakshaya etc.

2. PRAGBHAKTHA

Administration of medicine just before the intake of food.

Indications:

Viguna apana: Administration of medicine just before food helps in proper *gati* of *apana vata*. By this *prathiloma gati* of *vayu* can be corrected.

*Krushikaranartham*¹³: In *sthoulya* there will be vitiation of *agni* and *vayu*. The drug which is *guru* and *apatarpana* administered in this *kala* can pacify *vayu* and control *agni*. By this there will be less hungerand less food intake.

Adha kaya vyadhi: Most of the diseases related to lower part of the body is caused due to apana vayu vaigunya. As this kala is best to cure the apana vayu vaigunya, adhokaya vyadhis are treated well.

Adha kaya balartham: *Vata vrudhi* leads to *balakshaya*. In this *kala apanavayu* is well controlled, soit helps to increase *adha kayabala*.

Bala, vrudha, bheeru and **krushanga**: Food is given immediately after medicine so patient can withstand the potency of the drug and also there won't be any regurgitation of medicine as it is covered by the food.

3. MADHYAMABHAKTA

Administration of medicine in between a mealis called *madhyamabhaktha*.

Samana vayu vaigunya and paithika vikaras¹⁴: In this *oushadha sevana kala* initially food is given, which stimul*ates agni* and *samana vayu*, so the medicine which is given at this time can directly acton *samana vayu* and *pacaka pitta*. After the medicine, again food is given which will prevent regurgitation.

Pacaka pitta is the maintypewhich supports all the other *pitta*. If this is corrected all othertypes of *pitta* can be corrected, thus this *kala* is apt to correct *paithika vikaras*.

Madhyadehagata roga and koshtagata rogas¹⁵: These diseases are caused mainly due to vitiation of samana vayu and pachaka pitta, therefore the medicine administered at this kala is best to cure koshta vikara and madhyadehagata roga. Acharya Susrutha emphasize that avisaribhava of oushadhain madhyamabhaktha cures the diseases of koshta as this medicine stays for long time in koshta.

4. ADHOBHAKTHA

Here the medicine is administered after the intake of food. It is divided under two headings; pratarasananthe(after morning meals) and sayamasananthe(after evening meals)

*Vyanavayu vikaras*¹⁶(*pratarasya asanathae*): The site of *vyanavayu* is *hridaya* and *hridaya vikasana* occurs in morning hours. The medicine given at this time may directly act on *hridaya* and thus on *vyana vata*. It can also be interpreted as, after the digestion of food*rasa* is formed which is carried by *vyanavayu* later, all over the body which in turn cures the *vyana vayu vikara*.

Udanavayu vikaras(sayam asanathe): Acharya Charaka did not mention *nisi* under oushadha sevana kalas. He might have considered it under saayamasananthae. According to

Acharya Susrutha, udana vayu vikaras leads to jatrurdha vikaras. As per Dalhana commentary jatroordhwa means nayana vadana ghranadi, which can be specifically told as indriya related vikaras. But for this Acharya Vagbhata has mentioned nisi as oushadha sevana kala. Obviously the doubt arises why Acharya Vagbhata would have mentioned both sayam asananthae and nisi. So here it can be substantiated as, diseases in which both uras and jatroordha are involved we can adopt sayamasananthe, if diseasesare more specific to indriyas we can opt nisi.

Kaphaja vikaras¹⁷: After the initial stage of digestion there will be kapha predominance ie, madhura avasthapaka. Kaphaja vikaras aggravate during this time just like kaphajonmada aggravates during the first stage of digestion, the kapha kala. Thusthe drugs which are teekshna and ushna(visesha sidhantha) given at this time can cure the kaphaja vikaras. Tikshna and ushna drugs if given in empty stomach may irritate gastric mucosa. So here, it is given after food because of which drug is well tolerated.

*Urdhvakaya vyadhi and urdhvakaya balanartham*¹⁸: Most of the diseases of *urdhakaya* are caused dueto *kapha*, so the administration of drug at this *kala* can cure the diseases of *kapha*, hence there will be more *bala*.

Brimhana / sthulikaranartham: After the food if *pachana* drug is given then there will be proper digestion and absorption of food. By this *brimhana* is possible.

As per *karshya chikitsa* one should give *laghu* and *tarpana ahara*. These types of *ahara* stimulates *agni* and there will be proper digestion of *ahara* and *oushadhas* by which *sthulikarana* is possible.

5. SAMABHAKTHA

In this *kala* medicine is administered along with food, mixed with food, either while preparing the food or during the administration.

Arochaka¹⁹: Here medicines can be mixed with different kinds of food, so it becomes more palatable and it stimulates the tongue.

In case of *arochaka* there will be *agni mandatha* and *bala kshaya*. If medicine is given withoutfood then person cannot withstand the *veerya* of the medicine.

*Bala, sukumara and oushadha-dveshi*²⁰: Those drugs which do not have pleasant taste can be mixed withfood and given. The same *oushadha kala* is advocated in *sarvanga roga*.

6. ANTHARABHAKTHA

Administration of drugs in between two meals is considered as *antharabhaktham*. According to *Indu commentary*, food should be given in *purvahna kala*. After the proper digestion of food medicine should be given during *madhyahna kala*. After the digestion of medicine again food is given in *aparahna kala*.

Hrdya dravya and *manorogahara oushadha*²¹ - *Hrdya* drugs are advised during this *kala*. In case of *manoroga*, there willbe vitiation of both *shareerika* and *manasika doshas*. In case of *manoroga*, there is a need for more potentmedicine. If medicine is given along with food there will be food drug interaction and conversely potency gets reduced. So, medicine is given separately.

*Vyana vayu vikara*²²: *Sthana* of *vyana* and *manas* is same i.e. *hridaya*. This *oushadhasevana kala* is mentioned in diseases related to *vyana* and *manas*.

7. SAMUDGA

Administration of medicine just before and after food. The word 'samudga' means a box like structure. Herecare to be taken that *ahara* should be *laghu* and *alpa*.

Kampa akshepaka hidma and *urdhva-adhavyadhi(pravisrutha dosha)*²³:Vitiated *vata* isthe main causefor these diseases. And the medicine to be given during the *vegavastha* of diseases. Here medicinewhich is given before food does the *vata anulomana* and after the food does *vata samana*.

8. MUHURMUHU

Regardless of the fact whether the patient has taken food or not, here the medicine is given again and again.

Visha chardi hidhma trit swasa and *kasa*²⁴:There will be continuous *vegavastha* in these diseases. If medicine is given at this *kala*, *vegavastha* can be subsided and the recurrence can be prevented.

In these diseases *agni* will be in*mandavastha*. Medicine which is given in *alpa matra* helps to enhance the *agni*. If it is given in large quantity there will be chances of vomiting.

9. SAGRASA

In this *kala* drug should be given along with the morsel of food.

Pranavayu vikara²⁵: Annapravesha karma is the function of pranavayu.So, a drug administered with bolusof food can easily cure the diseases of prana vata.

Deepana: According to *Acharya Susrutha*, medicine given at this *kala* can increase the digestive power.

10. GRASANTHARA

Grasanthara means administration of medicine in between twobolusof food.

Pranavayu vikara and hridroga²⁶: Annapravesha karma is the function of prana vata. Medicine givenat this kala can easily cure the diseases of pranavata.

11. NISI

Nisi means administration of medicine at bedtime. (svapna kale)

Urdhajatru vikara: Jatrurdhagata vyadhis are mainly due to *kapha dosha. Nisi*,the first *yama* of night is *kapha kala*. Amedicine administered in *kapha kala* for *kaphaja vyadhis* can give better results.

DISCUSSION

Specificity is an art that helps in distinguishing and providing accuracy in any field of science. *Oushadhasevanakala*, the formulation and disease specificity with respect to time of administration is a unique concept mentioned in our classics. Another interesting factor here is various *yogas* have different actions based on the time of action such as *dhatri loha*ie; before food in *pitta-vataja roga*, between food in *vishtambha janya roga* which prevents *vidaha* and after food in *virudha anna krita dosha*. Also *Nidigdhikadi Kwatha*, administered in evening for *urdhwajatru vikara* and *ratri jwara*, in morning for other types of *jwara*.

The novel development in the field of chronotherapy is found to be supportive to substantiate the scientific aspect of *oushadha sevana kala* which was well described in Ayurveda classics decade before. Gastrointestinal absorption of the drug is influenced not only by the gastrointestinal motility, the intraluminal PH, blood flow to stomach and enzymatic action, but also depends on the circadian rhythms. All the above said factors are also influenced by the time of the day. Drugs that are lipophilic are found to have more rate of absorption in early morning hours rather than any hour of the day. Absorption of thyroxine is reported to be more complete on empty stomach but can be variable and incomplete when taken with food.

CONCLUSION

The relationship between *kala* and *oushadha* is well established in our classics by all the *acharyas*. Knowingly or unknowingly this relationship is neglected now a days while administering medicine. This negligence may be one of the reasons for not getting the desired effect from the treatment. *Oushadha sevana kala* plays an important role in deciding the efficacy and intensity of drug dynamics. A single drug can act in many ways based on the *oushadhasevana kala*. The drug food interaction and drug drug interaction are also vital in deciding the extent of drug efficacy.

The concept of *oushadha kala* is applicable only for *samana* drugs; *sodhana dravyas* are explained separately based on the indication and specific procedure. This discussion is applicable for orally administered drugs as they come in contact with *agni* directly at the first instance of drug digestion and metabolism. Only types of *vata* have been mentioned probably indicating the importance of it in the disease initiation and progression. The classical approach is based on two *annakala*, however modifications may be necessary in contemporary food and diet habits as we follow more than two *annakala* nowadays. *Oushdhasevana kala* acts like a guided missile to tackle disease at its most active phase.

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Materials and methods

This article is based on a review of Ayurvedic texts. Materials related to *oushadhasevana kala* and other relevant topics have been collected. The main Ayurvedic texts used in this study are *Sushrutha samhitha*, *Ashtanga sangraha*, *Ashtanga hrdaya*, *Charaka samhitha* and *Sarangadhara samhitha*. We have also refered the modern texts and searchedreliablewebsites to collect information on the relevant topics.

Results

Concept of *Oushadhasevanakala* is a multifactorial one. Ultimately the main factors are *rogi* and *roga*. So naturally the factors which comes under *rogi-roga pareeksha* influences the *bhaishajya kala*.

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