

WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.453

Volume 12, Issue 15, 1281-1289.

Review Article

ISSN 2277-7105

AYURVEDIC REVIEW STUDY ON CONCEPT OFSNEHA AVARTANA

Dr. Prasad Narvekar*1

¹M.D. Ras Shastra Bhaishajya Kalpana.

Article Received on 21 July 2023,

Revised on 11 August 2023, Accepted on 01 Sept. 2023

DOI: 10.20959/wjpr202315-34367



*Corresponding Author
Dr. Prasad Narvekar
M.D. Ras Shastra
Bhaishajya Kalpana.

ABSTRACT

Avartana is a technique of potentiating the formulations of Sneha Kalpana. The reference regarding the use of avartita sneha in Samhitas is particularly in Vatarogas.^[1] The concept of Avartana is known from Samhita period but itsapplication is very limited in due course of time due to its time-consuming procedure, increased cost and its outcome is very less in quantity. Due to the repetitive processing of sneha there may be change in the molecular structure andit may be the reason for its increased efficacy and greater bioavailability Avartana process also facilitate easy and proper administration with reduced dose.^[2] Also it is a matter of fact that the transformation of simpler structure to its complex-one help to maintain the required serum concentration of its active principle and in-turns delayed excretion. Due to continuous heat

application and mixing of ingredients again and again to the filtrate obtained, convert it in a veryconcentrated form, therefore a little quantity is enough for palliation of the disease. Also due to its higher concentrated form, it is absorbed quickly due to concentration gradient.^[3]

KEYWORDS: Sneh Kalapana, Avartana, method of preparation, Use of Avartana.

INTRODUCTION

Any *siddhasneha* is prepared using three basic categories of ingredients namely *kalkadravya* (drugs in paste form), *snehadravya* (oleaginous substances like ghee/oil) and *dravadravya* (drugs in liquid form like decoction/water/ juice/milk/urine etc.). General ratio of these categories followed for preparation of any *siddhasneha* is 1:4:16 respectively. [4,5,6] All three ingredients are mixed in the said proportion and are heated on a constant low flame till achievement of the testing criteria. This is considered as one *paka* (one cycle). When *sneha* is obtained after filtration offirst *paka*, it is again treated with drugs in paste form and liquid form in the same proportion as mentioned. It is considered as second *paka* and the *sneha* is

termed as *dwipakisneha*. The process of *paka* is continued in the same manner to achieve desired potency.^[7,8,9]

Sneha Avartana^[10-42]

The word 'Avartana' denotes repeating the process several times. In Sneha kalpana this procedure is done in order to potentiate the final product and to achieve the maximum therapeutic benefit of the drug. When the process is repeated several times the dosage of the formulation can be reduced. For example the usual dosage of 'Ksheera bala 101' is 8-10 drops; whereas the dosage of Sneha according to Acharya Sharangadhara is 1 pala, to be given internally.

History

There are references regarding Avartana of both Ghrita and Tailas in Charaka Samhita, Sushruta Samhita, Astanga Hridaya, but a clear cut method of the pharmaceutical procedure is not mentioned. Ratnaprabha Teeka on Chakradatta is the first classical book which explains the pharmaceutical process of Avartana in the context of Dashapakabala Taila.

Another wonderful achievement of doing avartana in a sneha kalpana is that the properties of non-lipid substances can be easily transferred to a lipid substance by repeating the process. Therefore this avartita sneha penetrate Blood- CSF barrier where the entry of non-lipid soluble drugs is limited. Although the Avartana process changesthe formulation ina very different way to make it very potent and with lots of beneficial changes but some disadvantages is also with it, as repeated paka increases the cost of the medicine. The time of preparation is increased. There are chances of loss of quantity of taila or ghrita as well as their medicinal properties so much caution is required during paka siddhi till its madhyama paka stage is attained. Even though avartana sneha is having many advantages, it is having some disadvantages like it is a time-consuming procedure and may not be cost effective. Also, there may be chance of loss in the quantity of sneha due to repeated heating.

MATERIALS AND METHODS

Method of Preparation

- ➤ The basic ingredients Kalka, Sneha, Dravadravya are taken in ratio of 1:4:16 respectively. The method of preparation is similar to that of regular preparation of Sneha kalpana.
- > After the Sneha paka, the Sneha is filtered and measured. The quantity of Kalka and Drava dravya for the second Avartana is calculated based upon the quantity of the Sneha

obtained and added to the above filtered Sneha and paka is done. Likewise the process of preparing the Sneha paka is continued by done by adding the appropriate quantity of Kalka and Drava dravya every time based upon the Sneha obtained in the previous paka.

- > After each Sneha paka the quantity of Sneha obtained will be proportionately less i.e. there will be loss after each paka.
- > It is found that the consistency, the coluor and odor of the product changes after each Avartana. Opinions of Avatana:

1) According to Gayadas

In the context of the pharmaceutical process of Sahasarapaka Bala Taila in Sushruta Samhita Chikitsasthana 4th chapter, Gayadas mentions that, the method of preparation is similar to the general method of Sneha kalpana and the process should be repeated every time by adding appropriate quantity of Drava dravya. He further states that the Ksheera which is added during the process of Avartana will compensate the loss to some extent. So the processis repeated for 100 or 1000 times.

2) According to Jejjata

Commenting on Gayadas opinion, Jejjata says that if the process is repeated for 100 or 1000 times the loss of Sneha will be more and hence the final yield of the prepared Sneha will be very less. So the process of preparing the Sneha should be done by adding 100 or 1000 parts of Drava dravya at a single stretch.

3) According to Nischalakar

In Ratna Prabha teeka on Chakradatta, Nishchalakara mentions the method of preparation of Dashapaka Bala Taila. According to the reference the ratio of ingredients between Kalka, Sneha and Drava dravya is 1:4:16 respectively and the method to be followed is similar to Sneha kalpana .This process is repeated for 10 times hence it is called as Dashapaka Bala Taila. When this Dashapaka Bala Taila is taken and the pharmaceutical process of Sneha kalpana is repeated for another 10 times, then it is said to be Shathapaka Bala Taila. If this Taila is processed for further10 times it is called Sahasrapaka Bala Taila.

Reference regarding the number of Avartana

Formulation	Number of Avartana	Reference
Amalaka Ghrita	100 times	C.S.Chi 2/4
Amalaka Ghrita	1000 times	C.S.Chi 2/4
Bala Taila	10 times	Chakradatta22/35-36
Bala Taila	100 times	C.S.Chi 29/119
Bala Taila	1000 times	C.S.Chi 29/ 120
Ksheerabala Taila	100 times	A.H.Chi 22/ 45-46

Ksheerabala Taila	1000 times	A.H.Chi 22/45-46
Trivrta Sneha	100 times	S.S.Chi.18/31
Yastimadhuka Taila	100 times	C.S.Chi.29/117-118

Number of Avartana in the present time:

S.I. No.	Formulation	Number of Avarthana
		3
		7
1	Ksheera BalaTaila	14
		21
		41
		101
2	Sahacharadi Taila	3
2 Saha	Sanacharadi Tana	7
		3
3		7
	DhanvantaraTaila	21
		41
		101

Siddha sneha is a novel and unique dosage form in Ayurved wherein active constituents from herbs, minerals or animal products are extracted into the lipids. Formulations prepared using the avartana principle are recommended in various conditions by almost all ayurvedic texts.

Showing flow chart of General Method of Preparation of Sneha paka along with various Avartita Tail.

Sneh(Tail/GHrita)

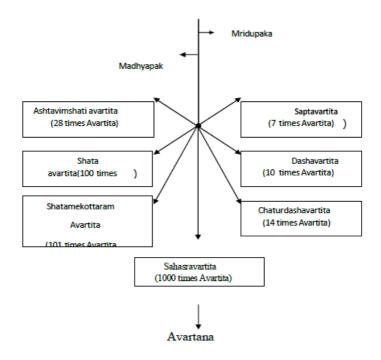


Addition of Kalka, Kwatha/Ksheera etc.



Ama Paka Moderate Heat

Till Liquid portion evaporates



DISCUSSION

During the review process of *samhitas* one can see a clear distinction between the two categories *avartita siddha taila* and *avartita siddha ghrita* based on *dosha* and efficacy profile. Further, it was noticed that primary data on *sneha avartana* from concept to its efficacy is very limited. It underlines the need to explore this topic systematically at every stage viz. pharmaceutical, analytical, pre-clinical and clinical and generate authentic data on this important dosage form. If potentiated *sneha* will prove efficacious clinically; it can be dispensedin a sophisticated and compact form to make it patient compliant.

CONCLUSION

Siddhasneha is the chosen form of drug for Ayurved clinicians for a broad range of conditions however it faces the issues of patient compliance. Thus drug potentiation and subsequent dose minimisation can be a feasible solution to overcome it. The concept of Avartana is known from Samhita period but its application is very limited in due course of time due to its time-consuming procedure, increased cost and its outcome is very less in quantity. Due to the repetitive processing of sneha there may be change in the molecular structure and it may be the reason for its increased efficacy and greater bioavailability Avartana process also facilitate easy and proper administration with reduced dose.

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