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A review on Role of Sneha in Relation to Absorption of Drug

Dr. Kritika Garg

PG Scholar Final Year, Dept. of Rasa Shastra & Bhaisajhya Kalpana, Desh Bhagat Ayurvedic Medical College & Hospital, Mandi Gobindgarh, Punjab.

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ABSTRACT

Ayurvedic dosage forms are very exclusive in its pharmaceutics andtherapeutics. SnehaKalpanais a process where various things likemedicinal herbs paste, decoction, dugdha, dadhi, mutra or other dravadravyas used for preparing medicated taila and ghrita. Proportion fordifferent kind of dravadravyas kalkadravyas, are mentioned indifferent samhitas in varied manner and also different type of durationfor preparation Sneha. Medicated and taila ghritahave greattherapeutic importance in manv PanchakarmaProcedures internally externally. In this article an attempt has been made to review regarding properties of taila, process of method of preparations of drugs, stagesof paka (preparation) and its various therapeutic indications.

SnehaKalpana is a unique contribution to Ayurvedic science and it ensures the transformation of the active therapeutic properties of the ingredients to the solvents. It is mainly of two types-GhritaKalpanaand Kalpana. Sneha Kalpana is done in the three phases. The first phase consists of Sneha Murchana, followed by secondphase of Sneha Paka and finally the reisthird phase called Paka Siddhi. This processen sure stransformation oftheactive therapeutic properties of the ingredients to the solvents and hence to get fat soluble, water soluble or even the chemical constituents which are soluble in various media. Here we provide a review of the SnehaKalpana process and its property of absorbing the principles of drug and stores it for longer period without losing itsproperty.

Key Words: SnehaKalpana, Kalka Dravyas, SnehaPaka

I. INTRODUCTION

Theword"SnehaKalpana"consistsoftwowo rds'Sneha' and 'Kalpana', where Sneha means fats or fatty materials and Kalpana stands for pharmaceutical process medicaments. of SnehaKalpana be defined -'A may as pharmaceutical process to prepare oleaginous medicaments from the substances like Kalka, Kwathaand Drava dravyas, in specific proportions by subjecting to a unique heating pattern and duration to fulfill certain pharmaceutical parameters, according to the need of therapeutics'. In other words SnehaKalpana is a process where the various forms like decoction, paste, milk and perfuming substances are employed for the preparation of oleaginous medicaments (Oil and ghee).

This process ensures absorption of the active therapeutic properties of theingredientsused.SnehaKalpana,anUpkalpanaofbo th

KashayaKalpanaandKalkaKalpana,istheprocesswhe re

theactiveprinciplesofthedrugareabsorbedintotheSne ha (Ghee or Oil)¹.By this process,one can ensure transformation of the active therapeutic properties of the ingredients to thesolvents, and hence, one can recover fat-soluble as well as water-soluble chemical

In Ayurveda, Sneha is used in four types²:-

Sarpi -gheeTaila -oil

constituents.

• Vasa -fats

Majja

According to combination: -

trivritSneha, mahaSneha

yamakSneha,

- bonemarrow

SnehaKalpana is done in the following three phases:

- First phase SnehaMurchana
- Second phase SnehaPak
- Third phase PakaSiddhi.

The aim of snehakalpanais³

· To extract lipid soluble active principles from the



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drugs.

- · To make use of therapeutic values of oil/ghee.
- · To enhance the shelf life of sneha preparation.
- · To enhance the drugs absorption.
- \cdot To make the preparation more palatable and pleasing with good odour.

SnehaMurchna

MurchanaisthefirststeptowardsanySnehaPakaproces s

EarliestithasbeenmentionedinChakraduttRatanapra bha byNishchalker but here is just a mention about Murchana

butitisbetterexplainedindetailinBhaishajyaRatnavali ⁴. It is applicable to both Ghee andTaila.

Main aim of SnehaMurchana is to remove: -

- 1. Durgandha (Badodor)
- 2. Amadhosha(Unrefined)
- 3. Ugrata(Sharpness)

After SnehaMurchana, Sneha will acquire the following qualities:-

- Good smell andcolor.
- Potency of Sneha is enhanced so that it can imbibe more active principles from the drug with which itis processed.
- Snehawilltakeuptheactiveprinciplespresentinth e Murchanadravyasalso.

Materials: SnehaKalpana needs the following materials –

- a) Kalka dravya-Paste of various parts of medicinal plants may be used.
- b) **Drava dravya**-Water, fresh juice, decoction, milk, kanji, butter milk etc.
- c) Snehadravya—SnehaKalpana is of two types like TailaKalpana and GhritaKalpana. Accordingly oil or ghee is used as base. Amongoils, Tilatailaiscommonlyused and among ghee, Goghrita is used.
- d) Gandhadravya To give good odor, perfuming substances like Ela, Twak, Patra, Kakkola, Karpoora, Lavanga etc. may be used, wherever necessary.

Table: Ratio of Kalka Dravyas

Jala - 4:1 kwatha - 6:1

Ksira, Dadhi, Takra, Swarasa, MamsaRas 8:1

- The quantity of kalkadravya differs from general ratio depending on different dravadravyaused. In case of ambu (jala), kwatha, Rasa(swaras) the kalka quantity will be 1/4th, 1/6th, 1/8th respectively.
- ➤ In case of godugdhadadhi, mamsaras, takra used as dravadravya the quantity of dravadravya should be 1/8th.
- ➤ If the numbers of dravadravya are 5 or more than 5 in number then quantity of each should be equal to that of Sneha.
- ➤ If they are less than 5 then the total quantity of all of them should be 4 times to that of Sneha.
- ➤ If only dravadravya are mentioned then kalka of same drug is prepared and used. However 4 times water is also added.
- ➤ If only kwathdravya are given in Sneha preparation then kalka of same drug is added.
- ➤ If case where kalka is either not indicated or restricted in any Snehakalpana, there Snehamay be prepared without kalka.
- In case of pusphakalka in preparation it should be taken in 1/8th part to that of Sneha butnot as per general ratio.

Sneha Siddhi lakshana⁵

- Snehakalka attain perfect wick shape when rolled between thumb and index finger.
- ➤ If the part of Snehakalka is put into the fire, no sound is produced indicating the loss of moisture in it.
- Foam appears in tailapaka and it disappears in ghritapaka during completion of preparation.



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Desired colour, odor and taste of the ingredient become appreciable as the preparation is properly done.

Types of Snehapaka

Preparation of Snehapaka is divided into types as given below

Three types	Five types	
	1.	AmaPaka
1. MruduPaka	2.	MruduPaka
2. MadhyamaPaka	3.	MadhyamPaka
3. KharaPaka	4.	KharaPaka
	5. DagdhaPaka	

- 1. **MruduPaka**: This is the first stage of SnehaPaka. When Kalka becomes gum like in consistency during SnehaPaka it is regarded as Mrudupaka.
- 2. **MadhyamaPaka**: This is to the second stage of SnehaPaka when the Kalka becomes similar to "a kind of Avaleha like" and does not stick to the Darvi then it is said to attain MadhyamPaka
- 3. **KharaPaka**: This is the third stage of SnehaPaka.When Kalka attain a state where it cannot be rolled into Varti, instead it breaks into smaller pieces then it is said to be khar paka.

SnehaPaka Uses

SnehaPaka	Uses					
MruduPaka	For nasy	For nasya				
MadhyamPaka	Pana,	abhyang,	basti,	nasya,	karna	
	purana, i	purana, netrapuran				
KharaPaka	KharaPa	ka				

Specific time duration for Sneha paka⁶ The ghrita, taila, guda and such other preparations should not be cooked in single day. If done so may not acquire the desired therapeutic property.

The process has been carried out for more than a day by cooking at daytime and allowing paka to cool down overnight.

Drava Dravya	Time Required
Milk	2 days
Swaras	3 days
Takra, dadhi, kanji, gomitra	5 days
Roots, creepers, Climbers	12 days
Dhanya, mamsarasa	1 day

Precautions for SnehaKalpana

There is a necessity of utmost care and caution during the preparation of Sneha Kalpana. The improper care mayle ad into poor quality of end products, loss during manufacturing or early rancidity of the oils. So, following precautions are to betaken:

a) Beforeprocessing

1. Good quality of oil should be taken which is

devoid of impurities.

- 2. Freshoilshouldbeselected(OldGheeincaseofGhritaPaka).
- 3. Thenecessarying redients of good quality should be ekept ready.

b) During the process

- 1. The tailaPaka should be carried in Mandagni; the intensity of the fire is maintainedconstant.
- 2. Themixtureisstirredconstantlyandcarefullytoen



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- sure that the Kalka does not stick to the bottom of the vessel resulting intocarbonization.
- 3. Care should be taken to determine the proper stages of SnehaPaka.

c) After SnehaPakaprocess

absorb the oil contents.

- After getting the SnehaPakasiddhilaksanas, the whole contentsaregentlyfilteredthroughacleancloth;de laywill lead into loss of oil, as the Kalka drugs
- The perfuming drugs should be added gently with constant stirring when the oil islukewarm.
- 3. Whenever Lavana and Ksaras are used in the preparation, they are added to the Snehaand then strained.
- If Sarkara (Sugar) is mentioned in SnehaPaka, it is added to the final product, when it is cooled.
- 5. The containers should be free from moisture.

Therapeutic uses of each stage of Paka

Table : Effect of Paka on Therapeutics^{7,8}

S.No.	Name of Pakas	CharakSamhi	SushrutaSamhit	AshtangaH	Sharangdhar	HaritaSamhita
		ta	a	ridaya	Samhita	
1	Ama	-	-	_	_	-
2	Mridu or Manda	Nasya	Oral	Nasya	Nasya	Not mentioned
3	Madhya oi Chikkana					Internal and enemata
	Стикини	Спетната	iviussuge	Chemata	internal	Circinata
4	Khara or Khara Chikkana		Enemata otic drops	Massage	Massage	Massage
5	Dagdha	-	-		No therapeutic Use	-
6	Vishoshi	-	-	-	mentioned	Mentioned and No therapeutic Use

II. DISCUSSION

Snehakalpana may be defined as a process, where ingredients like-Sneha, Kalka, Kwatha

Ksheera and Gandhadravyas are used for the preparation of medicaments. General method for proportion of Kalka: SnehaDravya: Drava Dravya is 1:4:16. There are mainly three typesof Snehapaka and five Sneha siddhi lakshanas appear. Fat / water soluble active principles ofdrugs are extracted into Sneha in this method. The reason behind appearanceof froth in oilsand its disappearance in ghrit while preparing Snehakalpana lies in structural differencebetween both oil and ghrita. During the preparation extra benefits of Sneha are added informulations as their qualities are also mixed in drugs. The quantity of kalkadravya differsfrom general ratio depending on different dravadravya used. GhrutaKalpa has the advantagethe both fat soluble principles. It prescribes usage of different medicated Ghruta forapplication of body, with or without massage for

providing healths benefits and to treatspecific indications. Ayurveda which are indicated for particular disease i.e. BrahmiGhrita, JatyadiGhruta are another group of products. Varieties of AyurvedicGhruta and Oil are usedin different stages of PanchaKarma.

III. CONCLUSION

From the Review, it can be concluded that SnehaKalpana

isaveryeffectiveprocessandhasvariousadvantages.

usedtoextractthefatsolubleactiveprinciplesfromthera w material, enhance and absorption of drugs, when used topically in fat media. It also has extra benefits of specific Taila /Ghee (Nutritive) which is used to preserve thedrug for longer time as it increases the bioavailability of drugs due to its Sukshma, VyavayeeGunas. Finally, SnehaKalpas are the only dosage form which can be used both internally as well asexternally.



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