

REVIEW ARTICLE

A Bird's Eye View on Rasaoushadhis in Panchakarma

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ABSTRACT

Panchakarma, an inevitable part of Ayurveda, is a combination of 5 Shodhana procedures, namely Vamana, Virechana, Vasthi, Nasya, and Rakthamoksha. In addition to the above-mentioned Pradhana Karmas, Poorva Karmas such as Snehana and Swedana and Upakarmas such as Kavala, Pratisarana, and Dhoomapana are also a part of Panchakarma. These Shodhana procedures eliminate toxins in the body and make three doshas in equilibrium. Usually, Sthavara and Jangama Dravyas are utilized for Panchakarma procedures. In the current scenario, the utility and application of Panchakarma therapies are getting importance around the globe. There is a wide range of formulations explained in Ayurvedic classics for conducting Panchakarma therapies, but it is observable and evident that few formulations for Panchakarma contain Rasaoushadhis. These are not much explained in Brihathtrayees. However, the Ayurveda classics having focus to Rasa Shastra such as Rasaratnasamucchaya, Rasatarangini, Rasendrachoodamani, and Ayurveda Prakasha explain the inclusion of Rasoushadhis in Panchakarma formulations. Rasoushadhis are a group of medicines having metals and minerals, which are considered to be highly potent and fast acting. Sphatika, Anjana, Parada, Gandhaka, Thutta, Shilajathu, Loha, Kasisa, and Tankanaetcare are some of the examples having classical references in Panchakarma procedures. So here, an attempt is made to compile and evaluate some of the formulations with Rasoushadhis that are used in various Panchakarma procedures. Mode of action can also be explained in terms of their Rasapanchaka, Neerva, Dosha Karma, and other Karmas.

1. INTRODUCTION

Panchakarma, a cornerstone of *Ayurvedic* medicine, is a comprehensive detoxification and rejuvenation therapy designed to cleanse the body and restore balance. It consists of five primary procedures. It is preceded by a preparatory phase (*Purvakarma*) and followed by a post-treatment regimen (*Paschat karma*).^[1] *Purvakarma* (preparatory phase) is the initial phase, which prepares the body for the main purification procedures. It mainly includes *Snehana* (oleation) and *Swedana* (sudation).^[2] *Pradhanakarma* (main purification procedures) are *Vamana* (therapeutic emesis), *Virechana* (therapeutic purgation), *Vasti* (therapeutic enema), *Nasya* (nasal administration), and *Raktamokshana* (bloodletting).^[3] These procedures aim to eliminate toxins (*Ama*) and balance the three doshas (*Vata*, *Pitta*, and *Kapha*) that govern human physiology.^[4] *Rasoushadhis* are a class of Ayurvedic medicines prepared from minerals and metals, renowned for their potent and rapid action

Corresponding Author: H. Rahul, BAMS, MD (Panchakarma), Assistant Professor, Department of Panchakarma, Vaidyaratnam Ayurveda College, Ollur, Thrissur, Kerala. E-mail: drrahulayurveda@gmail.com in treating various diseases. In Samhitas, the references about the use of rasa drugs as medicine are not available in detail. However, books such as Rasaratnasamuchaya and Rasataranginietc clearly emphasize the importance of rasaoushadhis. These mineral drugs are not used widely for Panchakarma. During the preparatory phase (*Purvakarma*), *Rasoushadhi* aid in internal and external oleation, ensuring the body is adequately primed for the main procedures. In the main procedures (*Pradhanakarma*), they play a crucial role in mobilizing and expelling deep-seated toxins, thereby enhancing the effectiveness of therapies such as *Vamana*, *Virechana*, and *Vasti*. Post-therapy (*Paschatkarma*), *Rasoushadhi* support the body's rejuvenation and maintenance, helping to sustain the balance and vitality achieved through Panchakarma. Their integration into Panchakarma therapy enhances its efficacy manifold. Some examples regarding the use of *Rasaoushadhis* in *Panchakarma* have been discussed here mentioned in Table 1.

2. PROPERTIES OF RASA DRAVYAS

Shilajathu is included in *Maharasa*^[5] and is identified as asphaltum punjabianum. It is an exudate coming out of the mountains of

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Himalaya on being heated through the intense sun heat during summer. It is mainly of 2 types, *Gomutra Shilajathu* and *Karpura Shilajathu*.^[6] The impure *Shilajathu* produces many diseases for internal use; hence, it should be purified. *Shilajathu* purifies simply by washing with *Kshara-Amla Dravya* and *Gomutra*.^[7]

Sphatika is an Uparasa^[8] drug and its chemical name is Alum. It has synonyms such as *Tuvari* and *Kamkshi*. It is mainly of 2 types: *Fataki* and *Fullika*.^[9] It is purified by heating till the water gets evaporated.^[10]

Loha is included in *Dhatu varga*^[11] and its chemical name is iron. It is mainly of 3 types: *Munda loha, Teekshna loha,* and *Kanta loha*.^[12] Its important ores include hematite, limonite, magnetite, siderite, etc. For the *Shodhana* (purification of iron), it should be heated to red hot and quenched into *Taila, Takra, Gomutra, Kanjika,* and *Kulatha Kashaya* seven times each.^[13]

Thutta is included in *Maharasa*^[5] and its chemical name is Copper Sulfate. Its synonyms include *Mayura*, *Sasyaka*, etc. It is purified by *Bhavana* in any of the *Amla Dravya*.^[14]

Kampillaka is a drug included in *Sadhararasa Varga*.^[15] It is a herbal drug with Botanical name *Mallotus philippinensis*. Although it is a vegetable drug, because of its usefulness in mercurial operations, the same has been included under *Sadharana Rasa* group.

Kasisa is an *Uparasa*^[8] drug with chemical name Ferrous Sulfate. It is mainly of 2 types, *Baluka kasisa* and *Pushpa Kasisa*. It is purified by *Dolayantra Swedana* or *Bhavana* in *Bringaraja Swarasa*.^[16]

Parada, otherwise Mercury, stands in the prime position among *Rasadravyas*, it is claimed to be related to Lord shiva. The common ores of mercury are cinnabar, calomel, etc. The synonyms include *Rasa*, *Suta*, *Rudraretus*, etc. The important types are *Rasa*, *Rasendra*, *Suta*, *Parada*, and *Misraka*. There are a number of purificatory procedures explained, of this, distillation is the most recommended procedure.

Gandhaka is a *Uparasa* drug.^[8] Its chemical name is sulfur. Its synonyms include *Sulvari, Pamari, Gouri Pushpabhava,* etc. It is mainly of 4 types: *Sarakta, Pita, Sweta,* and *Krishna*.^[17] It is purified by *Dalana* process using *Ghrutha* and *Goksheera*.^[18]

Tankana which is known as Borax otherwise sodium borate is a *rasa dravya* described under *ksharavarga*. It is purified by heated until the moisture is completely removed and gets white powder.^[19]

Manashila is an *Uparasa*^[8] drug and its chemical name is Arsenic disulfide (As_2S_2). Realgar occurs as a bright red in crustations and coating on other substances as compact and granular masses and as crystals implanted on other minerals. It is mainly of 3 types: *Syamangi, Kana Viraka,* and *Khandakya*. It is purified by *Bhavana* in *Ardraka Swarasa* for 7 times.^[20]

3. PROBABLE MODE OF ACTION

References of various rasa drugs explained for panchakarma preparatory, main and subprocedures have been listed in Table 2. Their probable mode of action with respect to their *guna*, *karma*, *prabhava*, *etc.*, accounts for their importance in the respective yoga.

Vasthyamayanthaka Gritha is a ghee formulation, explained in Sahasrayoga, and is commonly used in urogenital conditions for *snehapana* (both for *Achapana and Vicharana*). It is useful in all diseases of *Mutravaha Srothas*. The *rasa* drug included in this formulation is *Shilajathu*. Dosha *Prabhava* is *Kaphahara* and

Vyadhi Prabhava includes *Vasthiruja, Prameha, Muthrakrichra, Asmari, Shopha, Udara,* etc. Hence, it is highly relevant in the yoga *Vasthyamayanthakam ghrita* as it has affinity toward *Mutravaha, Shuklavaha,* and *Mahasrotas.*^[31]

Mahavajraka taila is a yoga explained in Ashtanga Hridaya, for external application in *Kushta. Sphatika* is an ingredient in it. *Sphatika* is called as *Vishanashini* and *Sarvakushtaharini*.^[32]

Loha is used as *Pindaswedadravya* or *Prastharaswedadravya* according to *Charaka*. It is categorized under *Saagni Sweda*. Since fire or heat derived from the fire is used for providing sudation, in this treatment, it is considered as *Saagni Sweda*. Loha with the karma *Vata-Kapha Shamana* help in *Swedana*.^[33]

Thutta is a *Vamana Dravya* explained in classics whose properties highlight "*Vamaka*."^[34]

Kampillaka is a drug included in *Sadharana rasa varga*. Its karma (actions) include *Rechaka* (purgative), *Vitbhedi* (Remove stools), and *Ama pachaka*.^[20] Hence, it is *Virechana* (purgative) action that has been described in the properties itself. It even has the synonym of *Rechya*.

Lekhana Vasthi is a type of vasthi indicated in sleshma-medoroga.^[35] The Kalka for this Vasthi is prepared with the Dravyas of Ushakadigana. This includes Kasisa, Shilajathu, and Thutta.

Ushakadigana as a whole is *Kaphahara* and is *Medovishoshana*.^[36] Hence, it is highly useful in *Lekhana Vasthi*.

Kasisa is Sleshmanasaka, Vata kapha hara in Doshaprabhava and Medohara, Amadamshoshana in karma. The karma of Thutta includes lekhana, Bhedana, and Medohara. Shilajathu is Kaphahara. Hence, all these are relevant in Ushakadigana for Lekhana vasthi.

Sphatika has *Rakthasthambhana* property and hence useful in *RakthaSrava* as *Nasya*,^[37] *Vasthi*,^[38] and *Kavala*.^[39]

Gorasa payas (milk) is also having *Sthambhana* property,^[40] so is useful in *raktha pitta* as *nasya* along with *Sphatika*.

Shwasakuthara rasa is a rasa yoga explained in Bhaishajya Ratnavali, Yogaratnakara, etc. It contains *rasa* drugs such as *Parada, Gandaka, Tankana,* and *Manashila*. This yoga is explained for *Vata-Kaphaja Swasa, Kasa,* and *Swarakshaya* for internal use and *Nasya*.^[41]

Parada is Yogavahi and has Karmas such as Rasayana, Deepana, Pachana, Agnikari, and Balakara.

The karma of Gandaka includes Deepana, Pachana, Agnikari, Rasayana, etc.

Tankana is explained as Kaphanisraka and Vata kapha vikaranuth.

The *karma* of *Manashila* includes *Sarvarasayanaagrya*, *Vishagni*, and *Bhoothagni* (antimicrobial).

All these suggest that *Parada, Gandaka, Tankana,* and *Manashila* in *Shwasakutara rasa* are relevant in *Nasya* for conditions of *Swasa* and *Kasa*.

Manashila has properties of *kapha vatashamana* and it is also known as *Kasa- kshayaharini* and is used for *Dhoomapana* in conditions of *Kasa, Swasa,* and other respiratory conditions.^[42]

Icchabhedi rasa is a Rasa Yoga explained in Bhaishajya Ratnavali for Virechana. It is explained in the chapter of Udara Roga Chikitsa as *Virechana* is a main treatment protocol for it. It contains *Parada*, *Gandhaka*, and *Tankana* as *Rasa Dravyas*.^[43] This is a commonly used *Virechana Yoga* which is having *Teekshna Virechana* property.

Shilajathu, Kampillaka, Kasisa, Thutta, Sphatika, Parada, Gandaka, Tankana, Manashila, and Loha are some Rasa drugs having reference, which after proper Shodhana procedure used in Panchakarma provides beneficiary results.

4. DISCUSSION

Even though there are some references of Rasaoushadhis available in the classics, they have to be incorporated judiciously with the procedures of Panchakarma. There are references stating the utility of Rasoushadis for Poorva, Pradhana, and Paschat karma. In the Poorva karma of Snehapana, the references for Grita/Taila having Rasaoushadhis are very few. For Swedana Karma, drugs of Dhatu Varga, especially Loha, are explained. In Vamana Karma, there are few yogas containing Rasa preparations, but Anjana is indicated as Vasti dravya for Jeevadana, a Vamana Vyapat. While discussing the action of Rasa dravyas, it is likely to be more useful in Vamana as Vamana dravyas should be fast acting, Rasadravyas also act quickly. The reason for the same has to be sorted out. Thutta, which is a Maharasa, is explained as both Vamaka and Rechaka. According to the Avastha of Rogi and the Anupana, it acts as both. Kampillaka is a Rechakadravya, its single drug prayoga has been discussed and included in the Ayurveda Pharmacopoeia of India by the Government of India.^[44] The Vyapat (complication) of Vamana and Virechana have references for the use of Rasoushadhis mainly Anjana. However, the controversy still exists whether it is Sthavaradravya Rasanjana or Rasadravya Rasanjana. In Vasthi, Kalka dravyas have reference for Rasoushadhis. Kasisa, Thutta, Anjana, etc., are more commonly explained. Rasoushadhis are also explained in Uttara vasthi in some emergency conditions. For other Upakarma such as Kavala and Dhoomapana also, many Rasa dravyas are explained. Manashila is a common drug explained in Dhoomapana. While observing the references of Sphatika, In the conditions of Rakthapitta, whether it is Urdhwaga or Adhoga, Sphatika should have intense action. Because, many single drug references with Sphatika has been explained using suitable dravadravvas in Rakthapitta due to its Sthambhana property. There are references for it to use internally, as Vasthi, Nasva, and Kavala, etc., in Rakthapitta. Rasoushadhis, being very potent, can be utilized in Panchakarma with precaution and after proper purification.

5. CONCLUSION

Rasoushadhis, even though are not very popularly used in *Panchakarma* procedures, have ample references in classics for its use. Various Rasa Dravyas are included in formulations for *Poorvakarmas*, *Pradhana Karama*, and *Paschat karma*. *Rasa* drugs can be wisely used in *Panchakarma* for various chronic diseases and complex disorders and for effective detoxification and rejuvenation. Inclusion of *Rasaoushadhis* in *Panchakarma* formulations requires extensive researches before its practical utilization.

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71

Panchakarma	Rasoushadhi	Yoga	Indication
procedure	Kasousnaani	Toga	mulcation
Snehapanam	Shilajathu	VasthyamayanthakamGrita	Vasthi roga, Mootra Vega Avarodhajanyarogas
Abhyanga	Sphatika	Mahavajrakataila	Kushta
Swedana	Loha	Pinda sweda	Vata- Kapha roga
Vamana	Thutha	Vamana karma	Kushta, Krimi, Prameha, Medoroga
	Anjana	As VasthiYoga for complication of Vamana Karma.	Jeevadana (Atiyogaof vamana)
Virechanam	Kampillakam	Kampillaka as single drug	Vibandha, KrimiRoga, Adhmana, Gulma, Vrana
	Parada Gandhaka Tankana	Icchabhedi rasa	Udara Roga
Vasthi	Ushakadigana; Kasisa, ShilajathuThutha	Lekhana vasthi	Kapha Medo roga
	Sphatika	Sphatika+water	Ardra Arsa
Nasya	Parada, Gandhaka, Tankana, Manashila	Shwasakuthara rasa	Swasa, Kasa
	Sphathika	Sphatika+gopayasa	UrdwagaRakthapitta
Kavala	Sphatika	Sphatika+water	Mukha Paka
Dhoomapana	Manashila	Manashila, ala, madhuka, mamsi, inguditwak	Kasa

Table 1: SOME RASOUSHADHIS USED IN PANCHAKARMA AND UPAKARMA

Table 2: Rasa Panchaka of Rasa Dravyas

Rasa Dravya	Rasa	Guna	Virya	Vipaka
Shilajathu ^[21]	Thiktha, Kashaya	Snigdha, Mridu	Sheetha	Katu
Kampillaka ^[22]	Katu	Ushna	Ushna	
Kasisa ^[23]	Thiktha, Amla, Kashaya, Kshara	Guru, Snigdha	Ushna	
Thutta ^[24]	Katu, Kshara	Lakhu	Ushna	Katu
Sphatika ^[25]	Kashaya, katu	Snigdha, guru	Ushna	
Parada ^[26]	Shadrasa	Guru, Snigdha		
Gandaka ^[27]	Katu, Tiktha	Sara	Ushna	Katu
Tankana ^[28]	Katu	Ruksha	Ushna	
Manashila ^[29]	Tiktha, Katu	Snigdha, guru	Ushna	
Loha ^[30]	Tiktha, Madhura, Kashaya	Guru, Ruksha	Sheeta	