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ANUPANA IN RASAUSHADHI: A CLASSICAL **CONCEPT WITH MODERN** PHARMACOLOGICAL IMPLICATIONS

Dr. B.S. Gurumurthy¹, Dr. P.G. Jadar²

¹2nd year PG Scholar Dep of Rasashastra and Bhaishajya Kalpana, KAHER's Shri BMK Ayurveda Mahavidyalaya, Shahapura, Belgavi

²Professor & Dean Faculty of Ayurveda Department of Rasashastra and Bhaishajya Kalpana, KAHER's Shri BMK Ayurveda Mahavidyalaya, Shahapura, Belgavi

Abstract

Rasashastra is a specialty area of Ayurveda that uses certain metals, minerals, and organic substances for therapeutic purposes. Before being administered internally, these compounds will undergo a number of purification and combustion procedures to eliminate any toxicity. Rasaushadhis are well-known for their quick effects and low dosage. These medications should be used with the appropriate adjuvants, such as Anupana, which can boost the medication's efficacy and produce positive results. The only science that addresses the significance of Aushada Sevana kala, Matra, etc. in accordance with Roga-Rogi Bala and other aspects is Ayurveda. Some acharyas, such as Brihathreyees and Laghuthreyees, discuss Anupana, which should be taken with medication, while describing each illness condition.

This review explores the classical understanding of Anupana from authoritative Ayurvedic texts and evaluates its pharmacological significance through a modern scientific lens. Correlating traditional wisdom with contemporary pharmacology, the article highlights Anupana's relevance in drug delivery, absorption, and detoxification and synergism.

Key words: Anupana, drug delivery, Rasaushadhi, pharmacological action, synergism

Introduction I.

Rasaushadhis are herbo-mineral metallic compositions utilized for medicinal or In Ayurvedic treatment, Rasaushadhis are regarded as more successful and advantageous because to their lower therapeutic doses, enhanced efficacy of other formulation components, extended shelf life, rapid action, and superior palatability compared to herbal preparations. The assimilation of Rasa preparations in the body occurs more rapidly due to the many processes known as Samskaras that the preparation experiences. This facilitates the rapid and efficient absorption of even the smallest amounts within the body. 01

Ayurveda's primary goal is to treat the underlying cause of the illness rather than just its symptoms. We use a variety of theories and concepts to achieve that. Anupana is one such unique concept in ayurveda. Anupana refers to a substance that is taken either before or after ingesting food or medication. It can boost a medication's efficacy, aid in the medications' delivery to the intended area, nourish the body, and more. For a better outcome, it is crucial that the medication be taken with the appropriate Anupana. 02

A bioenhancer is an agent that, at the therapeutic dose, has no pharmacological activity of its own but can increase the bioavailability and effectiveness of a medicine with which it is co-administered. The purpose of this agent is to increase the overall bioavailability and bio-efficiency of the primary medication; it is not the primary medication itself. Maximizing bioavailability in this context refers to raising the amount of medication in the bloodstream that is available for therapeutic activity. 03

II. Materials and methods

Thousands of Rasa preparations, herbo-mineral preprations quoted in Rasashastra texts some are in Bhasma form, few of them are in Vati form, Parpati, Kupipakva preparations etc to counteract specific diseases. Changing of Anupana according to disease condition, Rogi-Roga Bala, Dosha, Prakriti, Karma could be a reason for better results. Here I mentioned below few important rasa preparations and proper Anupana for particular disease and its pharmacological implications.

TABLE NO 1

Commonly used	Disease specific	Anupana advised
Rasaushadhi		7.
Swarna Bhasma ⁰⁴	Tridoshaja Unmada Roga or Psychosis	Shunti Churna, Pippali Churna and Lavanga Churna
		Rasa Sindhura, Abhraka Bhasma,
	Apasmara And Yosha	Sankhapushpi Churna
,	Apasmara Apasmara	
	Tip district	
Abhraka Bhasma ⁰⁵	Jeerna Jvara	Pippali Churna+Honey
	Vataja Grahani Roga	Trikatu Churna+Ghrita
	Arsha, Pandu,	<i>Trikatu+Triphala+Chaturjata</i> with honey
	Kshaya	Guduchi Satva
	Prameha Roga	
Chandraprabha	Prameha	Freshly drawn and warm (Dharoshna) milk,
Vati ^{06,07}		Guduchi Kwatha
Tamra Bhasma ^{08,09}	Shwasa	Talisadi Churna and Madhu
		Pippali Churna and Madhu
	Amlapitta	Amalaka Churna And Guduchi Churna
Tamra Parpati ¹⁰	Grahani	Takra
Shankha Bhasma ¹¹	Amlapitta	Nimbu Swarasa
Arogyavardhini	Kusta And Yakruth	Ardraka Svarasa, Honey, Nimba Svarasa,
Vati ¹²	Vikara	water, milk
Kamadudha Rasa ¹³	Raktapitta	Durva Swarasa
	Amlapitta	Nagakeshara Churna or Ghrita
Lokanath Rasa ¹⁴	Atisara	Madhu

TABLE NO-2 Pharmacological implications

Anupana	Classical	Modern
Shunti Churna ¹⁵ Pippali Churna ¹⁶ Lavanga Churna ¹⁷	Deepana, Pachana, Ruchya, Vrishya	Radical scavenging, anti inflamatory, strong anti-oxidant Antibacterial, anti-inflammatory, insecticidal, antimalarial, CNS stimulant antimicrobial, antioxidant etc
D C: 11 19	METTER	
Rasa Sindhura ¹⁸ Abhraka Bhasma ¹⁹	Yogavahi, Rasayana, Balya, Dhatukshaya Medhya, Rasayana, Vrishya	Nervine tonic, immune booster Neurobehavioral activity, oxidative stress
Shankhapushpi Churna ²⁰	Medhakr <mark>ita, Sw</mark> arakara, Gra <mark>habhutadid</mark> oshahara	Neuroprotective, memory enhancing activity, anxiolytic
Madhu ²¹	Excellent Yogavahi, Tridoshahara	Antioxidant, antiviral, immune modulating properties
Trikatu ²² Ghrita ^{23,24}	Amapachana, enhances Agni Yogavahi Rasayanam	Increases the bioavailability or biological activity of the drug, antiviral, appetizer Rapidly crosses blood brain barrier, facilitates the bowel
Triphala ²⁵	Tridoshic Rasayana, Yogavahi	movement. Antioxidant, increases the production of red blood cells and heamoglobin, wound
Chaturjata ²⁶	Deepana, Pachana, Ruchya	healing. Carminative, cardiotonic, anthelmintic, expectorant.
Guduchi Satva ²⁷	Meha Nashana, Vayasta and Amrita	Hypoglycemic and antihyperglycemic activity
Ksheera ²⁸	Rasayana, Jeevaneeya, Balya	Reduces gastro-intestinal irritation, Immune-booster
Guduchi Kwatha ^{29,30}	Avoids Kledavriddhi, Dhatupushtikara	Antidiabetic activity, prevent release of glucose into the blood

Talisadi Churna ^{31,32}	Kapha Bhedhaka,	Mucolytic in action
	Vatanulomana,	
	Vatakaphaghna	
Amalaka Churna ^{33,34}	Pittashamaka, acts on Dhatu	Gastroprotective, hepato-
	Shithilata	protective, antiulcer etc
Guduchi Churna ³⁵	Pittaghna	Antacid
Takra ^{36,37}	Srotoshodhaka, Grahi,	Natural probiotic
	Deepana, Pachana	ath.
Nimbu Swarasa ^{38,39}	Deepana, Pachana,	Hepato-protective,
	Jvarahara	detoxification activities, anti-
#		oxidant, effect on the digestive
		sysyem
Ardraka Swarasa ^{40,41}	Agni Deepana, Ruchya,	Anti-inflammatory,
N.	Sheetapittahara	hepatoprotective, anti-oxidant
Durva Swarasa ⁴²	Jeevaneey <mark>a,</mark>	Anti-oxidant, anti-
// //	Raktastha <mark>mbhak</mark> a	inflammatory, stoppage of
// 12		bleeding
Nagakeshara Churna ⁴³	Pach <mark>ana, Rakt</mark> asthambhana	Anti-oxidant, analgesic, liver
		appetizer

Discussion

When we observe the Nirukti of Anupana, its actions resemble a vehicle due to its characteristics, which include making deglutition easier, acting as a catalyst (increasing the drug's activity), and providing greater results when treating patients. It functions as a property enhancer. Some Anupana's intensify the effects of medications. Aids in the quick absorption of medications. Eliminates undesirable qualities, By masking the scent of the medication, it serves as Gandhanashaka and Ruchikaraka. (44)

Anupana is chosen based on Rasa, Guna, Veerya, Vipaka, and Prabhava of the drug and the Rogi Bala, Roga Bala, and Dosha predominance. For instance, Ghee (Ghrita) is chosen for its Snigdha and Sheeta Guna, particularly when the Rasaushadhi is Tikshna or Ushna

According to contemporary pharmacology, Anupāna functions as a site-specific targeting agent, regulator of absorption, and bio-enhancer. For example, Takra and Triphala Kashāya may promote local action in lower GIT circumstances like Grahani and Bhagandara, whereas honey and ghee may improve the absorption of lipidsoluble components.

Conclusion

With strong formulations like Rasaushadhis, Anupana is not just an adjunct but a therapeutic determinant in Ayurvedic pharmaceutics. Dosha-prakriti, drug properties, and disease-specific indications are the foundations of the classical wisdom's well-organized justification for Anupana choosing. Understanding how Anupana may affect drug action, absorption and safety is supported by contemporary pharmacology. It is possible to improve Rasaushadhis acceptance, effectiveness, and safety by fusing traditional ideas with contemporary scientific methods. The role of Anupana in Ayurvedic formulations should be scientifically established through clinical trials, pharmacokinetic investigations, and experimental validation.

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