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# Review article

# Critical Review on Pharmaco dynamic action of Prawal Panchamruta Ras

Ankita P. Raut<sup>1,\*</sup>, Ranjit D.Patil<sup>2</sup>, Jyotsna M. Takalikar<sup>3</sup>, Sunil C Bakare<sup>4</sup>
P. G. Scholar<sup>1</sup>, Associate Professor<sup>2</sup>, Professor and PhD guide<sup>3</sup>, Professor & HOD<sup>4</sup>
Department of Rasashastra & Bhaishajya Kalpana<sup>1,2,3,4</sup>

1,2,4Yashwant Ayurvedic Medical College P.G.T & R.C Kodoli, Panhala, Kolhapur, Maharashtra, India-416114

3LRP Ayurved College, Islampur, Maharashtra, India-415409

\* Corresponding Author: Dr. Ankita P. Raut, E-mail: drankita.raut15@gmail.com
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# ABSTRACT:

Ayurveda, the ancient health science, includes formulations of plants, minerals and animal origin. *Rasashastra* and *Bhaishajya kalpana* is two of the pharmaco- therapeutic branch of Ayurveda which deals with herbo-mineral formulations. The main advantages of *Rasaushadhi* are its potency, effectiveness, and longevity. The classic Indian system of health management, Ayurveda, suggested different approaches for the restoring normal health. According to Ayurveda, natural drugs exert their action through their *Rasa, Guna, Virya, Vipaka, Prabhava.* These properties of drugs contribute towards the pharmacodynamic profile of any ayurveda drugs. The term "pharmacodynamics" refers to the process of "what the drug does to the body," representing the pharmacological action of the drug.

**KEYWORDS**: *Prawal Panchamruta Ras, Amlapitta, Parinam shool,* Osteoporosis

# INTRODUCTION:

Prawal Panchamruta Ras contains Mukta, Shankh, Shukti, Prawal and Kapardika. Madhur tikta rasa, madhur vipaka, and sheeta virya are present in all of these dravyas. These dravyas' sheeta guna and madhur vipaka aid in lowering vidagdha pitta. Chemically, the

calcium carbonate (CaCO3) in *Prawal Panchamruta Ras* quickly neutralizes stomach acid and may stop reflux, indicating a different mode of action from acid neutralization. In addition to being a useful antacid, calcium carbonate contains bio-organic calcium.

# **MATERIALS AND METHODS:**

# **MATERIALS:**

Table No. 1: Ingredients of Praval Panchamrut Ras

Sr. No.	Drugs	Latin/English Name	Praman
1.	Mukta bhasma <sup>[5,10]</sup>	Bhasma of Pearl	1 Part
2.	Shankh Bhasma <sup>[6,11]</sup>	Bhasma of Conch Shell	1 Part
3.	Shukti Bhasma <sup>[7,12]</sup>	Bhasma of Pearl Oyster	1 Part
4.	Kaparda Bhasma <sup>[8,13]</sup>	Bhasma of Cowries	1 Part
5.	Praval Bhasma <sup>[9,14]</sup>	Bhasma of Coral	2 Part
6.	Latex of Arka <sup>[15]</sup>	Calotropis Procera	Up to the absorption capacity

# **Procedure:**

- 1. This is *kharaliya kalpa* (Prepared by trituration in *khlva yantra*)
- 2. All *Bhasmas* are taken in proportion mentioned in table no. 1 and mixed properly.
- 3. One *bhavana* of *Arka ksheer* is given properly.
- 4. Chakrika prepared and one gajputa is given.

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5. After *swangsheet* (self-cooling) the prepared drug triturated in *khlwayantra* to get very fine powder.

# **Study Design:**

- A. Review of properties of all ingredients of *Prawal Panchamruta Ras* along with its preparation.
- B. Review of *samprapti* (Etiopathogenesis) of diseases and pharmacodynamic action of *Prawal Panchamruta Ras*.

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# A. Review of properties of all ingredients of *Prawal Panchamruta Ras* along with its preparation.

Table No. 2:	Ingradiants of	Drawal Danchai	mruta Dac an <i>c</i>	d their properties
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Sr. No.	Drugs	Rasa	Virya	Guna	Strotogamitva
1.	Mukta Bhasma <sup>[5,10]</sup>	Madhura	Sheeta	Raktaprsadak, Mutral, Shamak	Rasvaha
2.	Shankh Bhasma	Katu	Sheeta	Pachak, Grahi, balvardhk	Annavahstotas
	[6,11]				
3.	Shukti Bhasma <sup>[7,12]</sup>	Madhura	Sheeta	Ruchikar, agnideepk, Pachak	Pranvah, Annavh
4.	Kaparda Bhasma	Katu	Ushna	Ushna, deepan	Annavah
	[8,13]				
5.	Praval Bhasma <sup>[9,14]</sup>	Madhur, Amla,	Sheeta	Sheet, pittakaphnashk	Raktavah
		Kashaya			
6.	Latex of Arka <sup>[15]</sup>	Katu, Tikta	Ushna	laghu, Ruksha, Tikshna	

## **Procedure:**

- 1. All ingredients mentioned in table No.2 are mixed homogenously and one *bhavna* of *Arka ksheer* is given.
- 2. Chakrika prepared and one gajputa is given.
- 3. After *swangsheet* (self-cooling) the prepared drug triturated in *khlwayantra* to get very fine powder.

# **Organoleptic Properties**

Appearance - Greyish white Smell - Odourless Taste - Slight *Madhur* 

Sparsha - Fine powder (*shlkshna*)

Dose - Oral 1-2 *gunja* (125mg -250mg) *Anupana* - 1. Sugar +water; 2. Milk +sugar

Sevankal - Morning & evening

Bhojanpurva (Before meal)

# B. Review of *Samprapti* (Etiopathogenesis) of diseases and pharmacodynamic action of *Prawal Panchamruta Ras.*

# Amlapitta<sup>[2]</sup>

Amlapitta is a pittaj pradhan vyadhi affecting the Annavaha and Purishvaha Strotas. It occurs due to mandagni (weak digestion) and ama (undigested toxins). In Amlapitta, the Amla and Tikshna guna of pitta increase, leading to improper digestion and the formation of ama. As a result, bloating occurs frequently, accompanied by increased pain. Prawal Panchamruta Ras absorbs the excessive dravta (fluidity) of pachaka pitta due to its Ruksha (dry) and Grahi (absorbent) gunas. The madhur, katu, and kashaya rasas of prawal, shankh, shuktik, and kapardik, along with the presence of bio-organic calcium carbonate, neutralize excess gastric acid. Epigastric and retrosternal pain (reflux gastric acid), regurgitation, and bloating are the main symptoms of *Amlapitta. Prawal Panchamruta Ras* protects the mucosal layer, reducing acid erosion. Additionally, the Deepan and pachan gunas of Arka ksheer enhance digestion and control excess acid secretion.

# Parinam Shoola[3]

The "Parinama shoola" is self-explanatory; it refers to abdominal colic that develops during food digestion, or 3–4 hours after ingestion, when food has entered the intestine. An "Avarana Janya, Tridoshaja Vyadhi" manifests as Parinamashoola. Excessive vitiation of Vata occurs after ingesting or being exposed to the causes of Vata aggravation. These two Doshas then obstruct this vitiated Vayu resulting in its mixing with Pitta and Kapha. When Vata is mixed with Pitta and Kapha and obstructed, it leads to severe Shoola. This condition is known as Parinama shoola.

In *Parinam shool, Pittapradhan Tridoshas* become distorted. Major symptoms like *shool*(pain), heaviness are visible in the patient. This occurs due to excess *drava* guna of pitta and kapha along with *vikrut gati* of *vayu*. Due to the *grahi guna* of *Praval Panchamrut Ras* it absorbs excess *dravansh* and balances acidic secretion. This helps to control the *Shool*. In some patient, *Shool* is due gastric and peptic ulcers. *Shit guna* of *Praval Panchamrut Ras* neutralizes excess acid secretion and helps in ulcer healing.

Apthya in Parinam shool includes buttermilk, curd, salt and chillies while Pathya foods are Laghu, Madhur, sheeta aahar, milk, ghee etc. The formulation acts by its deepan, pachan (digestive) properties along with shulaghna guna of shankha, shuktik, kapardik and tikshna ushna sarak guna of arka ksheer ultimately reducing the tikshna, ushna, and drava guna of pitta.

# *Asthikshya* / osteoporosis [4,16]

Asthikshya smprapti includes vitiation of Vata occuring through two ways: Dhatukshhya and Margarodha. Therefore, the Samprapti can be explained in two ways, one is Dhatukshayajanya and other is Margavarodhajanya. Apatarpan i.e., taking Vataprakopak Ahara (diet) and Vihara (living habits) lead to vitiation of Vata due to decrease in Dhatus, resulting in the Srotas becoming Rikta (devoid of unctuousness). Vitiated Vata fills the Rikta Srotas. The walls of the Srotas stretch due to the force of Vata weakening them, and vitiated Vata overpowers the weak Srotas, leading to the manifestation of disease.

Prvalal Panchamrit Ras is useful in Dhatukshyajanya asthikshya. In Prawal Panchamruta Ras, the contents are derived from Ratna and Sudha varga, which serve as a rich source of Bio-organic calcium. Osteoporosis occurs when there is a decrease in the creation of new bone due to the rich source of bioorganic calcium, which gets easily absorbed in the body and prevents degeneration of bones. Praval Panchamrut Ras is one of the best medicines for osteoporosis in children; it improves bone growth. Its effectiveness is attributed to the properties of praval, kapardik, shankha, shuktik Bhsmas guna and along with anupan like milk, ghee.

# **OBSERVATIONS AND RESULTS:**

In Amlapitta, Praval Panchamrut Ras acts through its madhur, katu, and kashy rasas, as well as the ruksha and grahi gunas of shankha, shuktik, kapardik, and the tikshna guna of Arka ksheer. For managing shool (pain), it utilizes its deepan, pachan, and shoolghn gunas, along with the grahi guna of praval, shuktik, and kapardik bhasma, effectively absorbing excess dravata and reducing acid secretion. Additionally, Praval Panchamrut Ras can be used to treat osteoporosis in children and elderly patients due to its madhur and katu rasa, as well as the snigdha grahi guna of praval, kapardik, shankha, and shuktik Bhasma. Moreover, it provides bio-organic calcium

## **DISCUSSION:**

Praval Panchamrut Ras is described in Raschandanshu. The drugs in this formulation are from Sudha and Ratana varga, which possess Grahi, deepan, Pachan, and Sheet Guna. They are also known for their Raktaprasadak, deepan, Pachak, and Grahi gunas. Hence, they are useful in diseases like Amlapitta, Shool, and Osteoporosis. To enhance its properties, anupans like sugar water and milk are given. In this article, we attempt to explain the pharmacodynamic action of Praval Panchamrut Ras.

# **CONCLUSION:**

Praval Panchamrut Ras is the best drug for pittapradhan and kapha pradhan diseases. It can be used in conditions like Amlapitta, Shool, and Osteoporosis. Praval Panchamrut Ras acts on pachak pitta by absorbing excess dravata and improving digestion through its deepan and pachan gunas, which are present in Arka ksheer. It is concluded that substances with properties like Ruksha, Laghu, Sheet, and Grahi have effects in decreasing the vitiated Dravata of pitta and maintaining the function of Agani. Additionally, it serves as a natural source of bioorganic calcium, which gets absorbed in the body and reduces asthikshy

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Email: ayurveddarpan@gmail.com