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Review Article

RASAYANA AND ITS IMPORTANCE IN AYURVEDA

Raman Sharma^{1*}, Harmeet Kour²

*1Medical Officer, NHM, Jammu, J & K UT.

²Associate Professor, Dept. of Prasuti Tantra Stree Roga, Jammu Institute of Ayurveda and Research, Jammu, J&K UT.

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ABSTRACT

Rasayan Tantra is one of the most important branches of Ayurveda. It helps to delay the ageing process, helps to provide good strength and offer excellent immunity from various infections. It also maintains good digestion, metabolism, cardiac and mental health. Rasayan science also deals with measures, medicines, treatments which bring about delay in ageing process and also helps in the maintenance of health in old age, apart from providing strength and immunity. Rasayan help in the formation of best quality Dhatus/tissues and also support the channels which help in the formation and transportation of tissues and also the nutrition needed to form these tissues from one place of the body to the other. These medicines delay the ageing process by reducing the oxidative stress in the cells of body and central nervous system, thereby promoting the longevity and disease-free body. Rasayana have broad spectrum role as they are anti-inflammatory, anti-cancer, hepatoprotective, renoprotective, neuroprotective, cardiotoic and are excellent immunomodulators. They can be co-related with anti-oxidants in Western Medicine.

INTRODUCTION

Rasayana shastra is one of the eight branches of Ayurveda. Aim of Ayurveda is to maintain the health of healthy individual and to cure the diseased one. The major benefit of Rasayana is in its rejuvenating therapy which increases the body resistance i.e. immunity thereby promoting and maintaining the health of individuals. This Rasayana therapy also prevents the effects of premature ageing, increases longevity, improves mental and physical health, intellectual competence, maintaining youth, increases luster, body complexion, promotes voice quality, maintains functions of body and sense organs.

Meaning of *Rasayana*- The term *Rasayana* is consists of two words – *Rasa* and *Ayana*. *Rasa* means the finest part of fluid formed after primary metabolism of food. *Ayana* means going, circulating etc.^[1] That which is beneficial for the *Rasadi Dhatus* and also good for the

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Ayanas or channels through which those tissues flow from one part of body to other is called *Rasayan*. In other words, medicines which are beneficial to the Rasadi dhatus and their *Ayanas* are called *Rasayanas*.

Definition of Rasavana

- 1. *Rasayan* is that by which old age and diseases are averted.^[2]
- 2. *Rasayan Tantra* is one which deals with delaying of ageing process, increasing intellect and strength, prolongation of life and curing the disorders.^[3]

Bheshaja (medicines) in our Ayurvedic literature are classified into 2 groups:

- 1. *Swasthya Oorjaskar* Which promotes strength and immunity in a healthy person.
- 2. *Roganashak Chikitsa* Which cure a disease in an already diseased person.

Classification of *Rasayan*: *Rasayana* therapy is classified into various types by different *Acharayas* and are as follows:

A. On the basis of mode of administration

Rasayan Therapy has been classified by Charaka in two groups:

1. Kutiprareshik Rasayan (indoor regimen)

2. *Vataatpik* (outdoor regimen)

Kutiprareshik Rasayan: This method of *Rasayan* is comfortable for all seasons. In this method patient has to be placed in a *Kuti Trigarbhakuti*. That *Kuti* should build in an auspicious ground, facing eastward/northward direction and in a locality inhibited by King, Physician, Brahmans and Saints. It should have sufficient space area, height, a small opening, thick walls and should be impermeable for undesirable sound, etc., free from women, equipped with necessary accessories.^[4]

Vatatpik: It is a second type of *Rasayan* which can be taken even if the individual is exposed to the Sun and Air. In this procedure person remains in his natural surroundings and continuous to perform his daily activities under the therapy.

B. On the basis of purpose of Rasayana

Acharya Dalhana mentioned this type of classification⁵

- 1. *Ajasrika Rasayan* It is a type of *Rasayan* which should be taken regularly as food e.g., milk, ghee etc.
- 2. Naimittika Rasayan It is a type of Rasayan which should be taken for specific time or disease e.g., Kushta- Bhallataka rasayan, Unmada- Medhya rasayan.
- 3. *Kamya Rasayan* This type of *Rasayan* is used to fulfil a desire to serve a special purpose (*Kama*/desire). It is used in a healthy person for good health e.g., *Medhya rasayan* to promote mental functions.

Kamya Rasayan is further subdivided into following three types

S.No.	Type of Rasayan	Purpose of Rasayan	Drugs Used
1.	Prana Kamya	For promotion of life vitality and longevity	Triphala rasayan, Haritaki rasayan
2.	Medha Kamya	For promotion of intellect and mental functions	Brahmi, Sankhapushpi
3.	Sri Kamya	For promotion of strength, vigour, complexion and luster	Amalaki Rasayan

C. On the basis of content of Rasayana

- 1. Aushadha Rasayana- Based on Aushadha (drugs/medicines used for Rasayana purpose)
- 2. Ahara Rasayana Based on diet and nutrition.
- conduct and 3. Aachar Rasavana-Based on behaviour. Achara Rasavana pharmacological way of acquiring the Rasayana effect. In this type of Rasayana, the ways of living, role of Satvikka diet, what to do and what to avoid. Person who is truthful, free from anger, abstaining from wine and women, non-violent, non-exerting, calm, sweet spoken, engaged in Japa (repeating incantation) and cleanliness. perseverant. observing charity, penace, worshipping Gods, cow, brahmanas, teach the observing vigil and sleep in balance, using regularly ghee and milk, well behaved, simple having senses concentrated on spiritualism, keeping company with elder, devoted to holy scriptures.

Contraindications of Rasayan

- 1. *Anatmavana* Person who don't have proper knowledge.
- 2. *Alasi* Person who does not follow the rule.
- 3. *Daridra* Person who cannot afford the costly medicines.
- 4. Vyasani- Person who are addicted to alcohol etc.
- 5. *Papi* Person who do not follow their religion and their duties properly.

Rasayana for Various Systems of Body

- 1. Circulatory System: Amalaki, Dhatri Louha, Suvarna makshika bhasma.
- 2. Digestive System: Pippali (Piper longum), Haritaki (Terminalia chebula), Bhallataka (Semicarpus anacardium).
- 3. Excretory System: *Triphala, Kutaj (Holarrhena antidysentirica), Vidanga (Embelia ribes).*
- 4. Lactation System: *Shatavari (Asparagus racemosa)*, milk.
- 5. Menstrual System: Ashoka (Saraca ashoka), Lodhra (Symplocus racemosa).
- 6. Nervous System: Aswanganda (Withania somnifera), Swarna bhasma, Sankhapushpi (Convolvulus pluricaulis).
- 7. Reproductive System: *Aswagandha (Withania somnifera), Shweta musli (Asparagus adsendens).*
- 8. Respiratory System: *Vardhamana pippali, Chyavanprasha*.
- 9. Skeletal System: *Vansalochana (Bambusa arundinacea), Shukti bhasma, Kukkutandatwak.*
- 10. Sweat System: *Kupilu (Nux vomica)*

Charaka Samhita

- 1. Promotes longevity.
- 2. Improved mental and intellectual competence.
- 3. Provides immunity against diseases.

- 4. Delays ageing process.
- 5. Improvement in the complexion and luster of skin.
- 6. Improves voice quality.
- 7. Increases strength of body, motor and sense organs (*Indriyas*).
- 8. Provides Vaksiddhi (command over speech).
- 9. Production of good quality of *Sharirika dhatus* (from *Rasa* to *Shukra dhatu*).^[6]

Sushruta Samhita

- 1. Sustains age and youthfulness.
- 2. Increase in life span.

- 3. Increase intellectual capacity and strength.
- 4. Freedom from diseases.
- 5. *Sarva upaghatashamaniya* i.e., cures all ailments and problems.
- 6. Acts as rejuvenator and general restorative treatment.[7]

Sharangadhar Samhita

Rasayana destroys senility and diseases. Acharya Sharangadhar mentioned that every individual is at risk of losing one of the following properties at every decade. [8]

Table 1: Age wise Distribution of Rasayan Drugs

Age (years)	Decade Wise Decline	Desirable Rasayan Drugs	
1 - 10	Balyan - Childhood	Vaca (Acorus calamus), Kasmari (Gmelina arborea), Svarna(Aurum)	
11 - 20 Vriddhi - Growth		Kasmari (Gmelina arborea), Bala (Sida cardifolia), Aswagandha(Withania somnifera)	
21 - 30	Chhavi - Luster	Amalaki (Emblica officinalis), Lauha rasayan	
31 - 40 <i>Medha</i> – Sharpness in perception		Shankhapushpi (Convulvulus pluricaulis), Yastimadhu (Glycyrrhiza glabra), Guduci (Tinospora cardifolia), Aswagandha (Withania somnifera)	
41 - 50	Twak – Skin and appendages	Bhringaraja (Eclipta alba), Bakuchi (Psoralea corylifolia), Priyala (Buchanania lanzen), Haridra (Curcuma longa)	
51 - 60	Drishti - Visual acuity	Triphala ghrita, Saptamrita loha	
61 - 70	Shukra - Fertility	Kapikacchu (Mucuna pruriens), Aswagandha (Withania somnifera), Krishna musli (Curculigo orchioides), milk, Ghrita, etc.,	
71 - 80	Vikram – Valour and Courage	SHDHAT	
81 - 90	Buddhi – Cumulative intellect	-	
91 - 100	Karmaindriya – Physical capacities	This and above two groups are not fit for Rasayan karma	

Naimittika Rasayan Drugs

S.No.	Diseases	Drugs Used
1.	Eye diseases	Jyotisomati, Triphala, Shatavari, Yastimadhu
2.	Heart diseases	Shalaparni
3.	Skin infections and Kushtha (leprosy)	Tuvraka, Bhallataka, Vidanga, Somaraja, Gandhak
4.	Granthi and Gulma	Pippali, Bhallataka
5.	Yakshma	Rasona, Nagabhala, Shilajatu, Pippaladi
6.	Pandu	Loha
7.	Shwasa	Agastya Rasayan, Bhallataka.
8.	Amavata	Amrita, Bhallataka
9.	Vata Vyadhi	Rasona, Guggulu, Bala, Nagbala.

10.	Prameha	Shilajatu, Haridra, Amalaki.
11.	Medoroga	Guggulu, Haritaki.
12.	Raktagata Vata	Rasona, Bala, Rasna, Medha rasayana
13.	Nimna Raktachap	Kasturi, Kupilu
14.	Shitapitta	Kasturi, Kupilu.

Mode of Action of Rasayan Drugs

Acharya Sushruta mentioned definition of healthy individual as one who has equilibrium of doshas, normal functioning of *Agni*, normal condition of dhatus along with the calmness of soul, sense organs and mind. Most of the *Rasayan* medicines have *Madhura rasa*, *Guru*, *Snigdha* and *Sheeta gunas* as properties, act at the level of *Rasa* by promoting the nutritional value of the rasa which results in quality production of *Dhatus*. *Rasayan* drugs possessing *Ushna*, *Laghu*, *Ruksha Guna* and *Katu*, *Tikta kashaya rasa* act at the level of *Agni*. *Rasayana* act at the level of Agni to enhance the nutritional quality of Ahara- Rasa and helps in better circulation and assimilation of the nutrients at the cellular level.

The Rasayana drugs with Katu, Tikta, Kashaya rasa, Vishada, Ruksha, Laghu guna; Ushna veerya and Katu vipaka may cause Srotoshodana. Rasayan medicines also influence Oja and are supposed to induce Bala and Vyadhikshamatva (immunity).

The concepts of *Bala*, *Ojas* and *Vyadi kshamatva* explain the ancient way of understanding the innate and induced immunity and immune response in a comprehensive way. The *Rasayana* therapy explains the methods of enhancing immune response and bringing out immunomodulation effectively. Ayurveda medicines target towards enhancing body's resistance to disease causing agent rather than attacking the agent itself.

Age for Administration of Rasayan

Rasayan Aushadhis are indicated in Balya and Madhyavastha of Vaya, as the Dhatupaka will be active during Purva (birth to 16 years) and Madhya Vayas (16 to 17 years). Acharya Sushruta has recommended this period of life as an ideal for administration of Rasayan.^[9]

Dose of Rasayan

It is not fixed as it varies from person to person according to Agni. The dose of *Rasayan* should not be inhibit the consumption of next food, when *Rasayan* is taken.

Dosage Form

General dosage is in the form of *Lehya* (linctus). *Churnas* (powder) when used also formed into *Lehya* (linctus) form by mixing it with honey or ghee. Usually *Ksheera*/milk is the *Anupana/Sahapana* for *Rasayan*.

Mode of Action in terms of Modern Medicine

- 1. Anti-oxidant
- 2. Immunomodulatory action
- 3. Haemopoietic effect
- 4. Adaptogenic action
- 5. Anabolic action
- 6. Nutritive functions
- 7. Neuroprotective action

Free Radicle: Free radicles are unstable molecules that can damage the DNA inside cells if they build up. They may play a role in a range of diseases and the visible signs of ageing. Scientists believe that free radicles can damage cells, including their DNA over time. This affects how cells work and how they replicate potentially leading to a range of health problems. Various studies have connected oxidative stress due to free radicles to:

Neurodegenerative diseases such as Alzheimer's Disease and other dementias.

Cardiovascular diseases, respiratory diseases, Digestive disorders and cancer.

Anti-oxidants: Antioxidants are substances that lessen or prevent the effects of free radicles. They donate an electron to free radicles thereby reducing their reaction. Antioxidants are another type of molecule that helps remove free radicles. Plants such as fruits, vegetables and herbs are key sources of antioxidants.

Immunomodulation: Immunomodulation refers to the process of manipulating or modifying the body's immune system response. Immunomodulators are substances that can either stimulate or suppress the immune system.

Adaptogenic: Adaptogenic action refers to the ability of a substance to help the body adopt to and resist stress. Adaptogens can help regulate the body's stress response including hormone like cortisol, to prevent over stress or chronic fatigue. E.g., *Aswagandha*, ginseng.

Nootrophic: Nootrophics, also known as smart drugs or cognitive enhancers are substances that aim to improve cognitive functions like memory, attention and creativity e.g., caffeine, *Bacopa Monnieri*, Panax Ginserg Ginkgo bilopa, etc.,

Neuroprotective activity: Neuroprotective activity refers to therapy's ability to prevent neuronal cell

death by interfering with the process that leads to dysfunction and death. Neuroprotective agents often work by addressing multiple mechanisms such as improving mitochondrial function, reducing oxidative stress and inhibiting inflammation. e.g., *Brahmi, Sankhapushpi, Haritaki, Haridra, Vaca*, etc.

CONCLUSION

Rasavana provide wide variety of health benefits and are used as Immuno-modulators in Avurveda. The tissues of our body form and provide the primary defense against internal forces (vitiated Doshas) and external forces (infections, etc.,) causing the disease. Once the tissues become weak the body becomes susceptible to diseases. Weakening of tissues will also lower the immunity. The same effect can be seen where the channels forming and transporting the tissues are also blocked leading to inadequate or mal formation of tissues. In this way, we can say that Rasayanas act like a shield that protect us from bacterial and viral infections and at the same time maintaining the digestive and metabolic health. Covid Pandemic was one of the best examples of this, in which grave prognosis and high mortality rate was seen in most of patients with low immunity, obesity, old age, diabetes and other health comorbidities. So, it is concluded that human immune system plays a key role in maintaining good health by showing resistance to various pathogens of varied etiology. It also prevents frequent hospital admissions in patients of respiratory diseases like COPD, etc., and other metabolic diseases. All these exacerbations or flare ups occur due to compromised immune system, poor nutrition and gut health. With the growing burden of diseases in today's world it is difficult to maintain healthy lifestyle along with wholesome diet. In this scenario Ayurvedic Rasayana treatment seems like a ground breaking approach to treat and manage various present health issues and can also prepare us for the unknown diseases of near future.

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*Address for correspondence Dr. Raman Sharma

M.D. Kayachikitsa Medical Officer NHM, Jammu, J & K UT. Email:

ramansharmars1995@gmail.com

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