A review on the Rasayana effect of Lasuna (Allium Sativum)

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ABSTRACT-

Background- *Rasayana* is one of the eight branches of *Ashtanga Ayurveda* (8 branches of *Ayurveda*). Almost all *Ayurved* treats, including the oldest of all, various *Samhita*, has given due importance to the concept of *"Rasayana"*. *Rasayana chikitsa* delivers more emphasis on the preventive aspect of the individual. *Rasayana* is a concept that focuses on disease prevention, immune process modulation, strengthening, and increasing an individual's life span to live a disease-free, healthy life for a more extended period. This study is planned to assess the efficacy of the *ayurvedic* formulation *Lasuna Rasayana* is incredibly suggested in *charak samhita* for disorders of *Vatavyadhi* and *Aamvata*. A detailed explanation of *Lasuna* is given in *Kashyap samhita &Ashtanga hridaya*. *Lasuna* is a significant *Rasayana dravya* and a widely used *Ayurvedic* medicine. Garlic's fundamental chemical components are beneficial in daily life for maintaining physical fitness and acting against hypercholesterolemia. Garlic's wide variety of health benefits stems primarily from its active component Allicin.

Several Acharyas employed this powerful herb in various formulations, including *Lashoonadi Vati* and *Lashoona ksheera paka*. Garlic's value is highlighted in this article as a *Rasayana*, as its indications and qualities in *Ayurveda* suggest its role as a *Rasayana*. **Material and Methods**- The study used Ayurvedic scriptures, modern medicine, journals, and research publications from Google Scholar, Pubmed, and other sources. **Conclusion**- *Lasuna* is a significant *Rasayana dravya* and a widely used *Ayurvedic* medicine. Except for *Lavana Rasa, Lasuna* pharmacodynamics include *pancharasa*. Different parts have *pradhana Rasa, Madhura vipak, Madhura, Tikta*, and *Katurasa*, gradually becoming *Balvan*. Because it is *Sneha yukta*, it also has a *Brihmana* effect.

KEYWORDS- Lasuna, Allium sativum, Lasuna Rasayana, Rejuvenation, Utpatti.

Introduction

Rasayana is the technical term for "excellence of *rasa*" (the nourishing fluid created shortly after digestion). *Rasa's* literal definition is "essence of something." Anything we put into our bodies, whether food or medicine, is first resynthesized into *Rasa dhatu*. It is our body's fundamental plasma tissue. *Rasa* is tissues for further biochemical metamorphosis, while *Ayana* is the process by which *Rasa* is tissues for further biochemical, and interior aspects. It avoids ageing issues, restores youthfulness, boosts body and mind power, boosts body immunity, and manages tension and life's stressors. It includes a variety of rejuvenation techniques. *Rasayana*, also known as *Jarachikitsa*, is one of *Ashtanga Ayurveda's* eight branches (8 branches of Ayurveda). Almost every *Ayurvedic* treatment, including the oldest of them all, the *Charak Samhita*, emphasizes the concept of "*Rasayana*".

Definition of Rasayana

Rasayana is the treatment that delays the ageing process, increases life span, memory, and strength, and can pacify diseases by enriching the immune system (*Rogapaharansamarth*). Rasayana helps to protect the human body from infection and degeneration. It allows you to keep your manhood or youthful vitality till you're well into your older years. It aims to achieve the optimum quality of body constituents (*dhatu*). ^(1, 2) **Types of** *Rasayana*^(3,4,5,6)

1. *Kamya Rasayana*: It is aimed to attain desirable specific benefits such as long life, great intelligence, wealth, etc.

2. Naimittika Rasayana: It is a therapy aimed at treating specific diseases.

3. *Ajasrikam*: This therapy is advised to follow daily, and the person is habituated to the substance.

4. Samshodhana: Attaining Rasayana effect through purification therapies.

5. Samshamana: Attaining the Rasayana effect by pacifying the aggravated dosha or disease.

AcharyaVagbhat explained similar to Acharya Charak, the only difference like no age restrictions. Purva karma should be administered before Rasayana.

6. *Medhayuskamiya Rasayana* - Medhayuskamiya Rasayana strengthens memory, revitalizes mental powers, and increases lifespan.

7. Achara Rasayana

Lasuna explained in various Samhitas and its characteristics-

Caraka Samhita -It acts on *Krimi, Gulma,* and *Vatavikara* and is described as *Guru paki* and *Vrushya*.In *Caraka Samhita Lasuna* is mainly advocated in *Vataja* disorders, and it is *Vrushya* also. ^(7,8)

Sushruta Samhita- In Sushruta Samhita, Lasuna is mainly advocated in Vataja disorders. Acharya Sushruta also tells about its Vrushya guna also has indications in Jeerna jwara, Kushta, Arsha, Gulma, and Balavardhaka.⁽⁹⁾

Ashtanga Hriday – Acharya Vagbhata considered Lasuna the best Vata pacifier and cures all diseases of Vata Dosha. He emphasized that Lasuna is the best remedy for Vatajavyadhi. Lasuna Rasayana is a rejuvenator for all obstructions except those caused by Pitta Dosha and Rakta dosha.

Lasuna Utpatti, according to *Vagbhat* - The nectar obtained by churning the sea was stolen by *Rahu* and devoured; deity Vishnu immediately killed him, and the drops of nectar fell over the Earth and created *Lasuna*. Because it is born from the body of *Rakshasa*, the *Brahmanas* do not consume it. Because it is formed of nectar, it is the greatest *Rasayana*. ⁽¹⁰⁾

Ashtanga Sangrahakara- Lasuna leaves are alkaline and sweet, with a precious and smeary middle portion; the bulb is sharp, hot, and laxative (*Katu in Vipak*). ⁽¹¹⁾

Kashyap Samhita -In a separate chapter titled "*Lasunakalpaadhyaya*", *Acharya Kashyap* described several other healing properties. ⁽¹²⁾

According to *Kashyap Samhita*-When *Indra's* wife failed to conceive for a hundred years, he forced her to drink this nectar. Then *Indra* assured Saci that he would be blessed with numerous children. On Earth, this nectar will become a Rasayana (rejuvenating substance). Due to a flaw in the location, it will stink and not be used by *Brahmanas*. This nectar will be known as *Lasuna* on Earth. This is how it begins.

Classical indication of *lasuna* given by *Kashyap-Shukrashonitagarbhanama Jananama*, Na Patanti Stana, Na Chainama Gramyadharmadhva Gramyadharmadhva Gramyadharmadhva Gramyadharmadhva Gram Moolanama Kati Shroni Anga Na Jaatu *Vasaga, Na Jaatu Bandhya Bhavati na Jaatvapriyadarshana na Jaatvapriyadarshana na Jaatvapriya Lasunanyaupyunjeeta Puspareto.* It is used in clinical problems such as delayed ageing, menstrual disorders, reproductive system diseases, infertility, ovum, hormones, and sperms. ⁽¹²⁾

Guna karma according to Raja Nighantu: Katu, Picchila, Snigdha, Guru, Madhura Rasayuktha, Adhika balaprada, Veeryavardhaka, Medhya, Netrahitakara, Bhagna sandhana, Adhika teekshna. He mentions it as GRUNJAN Kanda- Madhura and katu rasa

Types of Lasuna in various classics

Kashyap samhita	Kaiyyadeva Nighantu	Raja nighantu Ratnakara	
Girija	Grunjanaka	Shwetha Rasona	
Kshetraja	Mahakanda	Grunjana	
	Garjara	Raktha rasona	

Lasuna's Ayurvedic Pharmacological Properties

Rasa	Amla Varjita Pancha Rasa, mainly Tikta and Madhura		
Guna	Snigdha, Tikshna, Pichchila, Guru, Sara		
Virya	Ushna		
Vipika	Katu (Bhavaprakash) Madhura (Kashyapa Samhita)		

Parts of Lasuna	Rasa According to Bhavprakash ^[13]	Rasa According to
		Kashyapa Samhita ^[14]
Moola	Katu	-
Patra	Tikta	Kashaya
Naala	Kashaya	Lavana, Tikta
Naalagra	Lavana	-

Beeja	Madhura	Katu

Lasuna explain as a Rasayana described in various Samhitas; the preparation method, and its indication

Charak Samhita-

Identification of Lasuna As Per The Classics:

It looks like *kukkutanda samana* in *greeshma rutu* with *shithila panna*. It is collected by *putavidhi*, and *bandhana* is done for *guptha dharana* by *buddhiman purusha*.⁽¹⁵⁾

Vargeekarana:-

Lashuna belongs to Haritha Varga

SR.NO.	AUTHOR	VARGA	
1	Bhavamishra	Haritakyadivarga	
2	Bapalal	Lashunadi varga	
3	Charaka	Shirovirechanavarga	
		Haritavarga,Bahirparimarjanavarga, KatuSkanda	
4	Dhanwanthari	Karaveeradi varga	
5	Kaiyyadeva	Aashachi varga	
6	Madanapala	Shaka varga	
7	Narahari pandith	Karaveeradi varga	
8	Raja vallabha	Hingwadinam gana	
9	Shodala	Karaveeradi varga	
10	Sushrutha	Shirovirechan,Shaka varga,katurasavarga dravya	
11	Vagbhata	Shaka varga	
12	Raja Nighantu	Moolakadi varga	
13	Priya Nighantu	Shatapushpadi varga	
14	Amarakosha	Vanoushadi varga	
15	Prayogatmaka	Abhinava Rasonadi varga.	

Lasuna Rasayana vidhi:

Purvakarma

When *Lasuna* is administered as *Rasayana*, *Snehana* (oleation) and *Swedana* (sudation) should come before *Shodhana*. It will be *Nishphala* if it is offered without *shodhana*. For 3,5 or 7 days, do *shodhana* and *peyadi krama Yavanna*(barley) until *Purana sakrut* reaches *shudhi* (purity).

Rasayana vidhi

Lasuna is taken from the Himalayas and Sukadesha in Vasantha ritu (spring season) and preserved in Madiradi (wine) overnight. It is taken out the next day, ground, and juice extracted. This Lasuna swarasa is consumed in a prescribed dose with one-third of Ksheera (milk). The amount of swarasa is said to be two pala (68gm) (juice). For Kandanalasudhi, juice combined with milk should be served for Gandusha (gargling) before consuming swarasa.

Paschatkarma

After the *swarasa* has been digested, old *Sali* rice with *yusha* or milk or *jangala mamasarasa* can be given as nutrition. *Aranaalam, Phalambu, or Parisiktham* are all examples of wine blended with water. One *Virechana* should be taken after the *Rasayana* therapy to keep *Pitta kopa* under control. *Sabhakta* (with food) or *Prakbhakta* (without food) (before food). *Lasuna* can be offered as *Utkrishta matra* for one month or six months or as *Hinamatra* for one *paksha*.

Lashuna seven Vidhi - Before ingesting Lasuna, one should first go through Shodhana. Vasantha rutu is the best rutu for collecting. The outer cover is removed and stored overnight in Madiradi dravyas. The following day, Kalka is released and squeezed for Swarasa, and three portions of Sura, Madya, Taila, and Dadimanda or Kanji are combined. Roganusara can also be combined with Taila, Ghrita, Majja, Ksheera, or Mamsarasa. When Keval Lashuna swarasa is consumed, Kantanadi shuddhi occurs. 1 Kudawa is Surarahita Lasuna rasa matra, and 1 Pala is Kalka matra. If Pitta prakopa occurs after using Lasuna Rasayana for a more extended period, Mrudu Virechana should be used again.

In the occurrence of a complication, *Swedana* should be performed if *Shoola* and *Vedana* occur during *Lasuna* administration, and *Sheetambu Seka* should be performed if *Vamana* and *Murccha* occur. After the symptoms mentioned earlier have subsided, the remaining *Lasuna* can be retaken.

Lasuna Matra- Three separate Matra are explained in the Kashyapa Samhita in Kalpa sthana.

- 4 Pala Avara matra
- 6 Pala Madhyama matra
- 4 Pala Avara matra

In *Sita kala* (cold season), the optimal dose is 4 Pala (50 numbers), 6 Pala (60 numbers) in *Hemanta*, and 8-19 Pala (100 numbers) in *Sisira*. The treatment should last for at least 15 days and up to six months.

Indications -

Charaka samhita - Skin illnesses (*Kustha*, *Kilasa*), Vataj disorder (neurological disorder), and increased sperm count and motility are indications of the medicine. ⁽¹⁶⁾ *Kashyap samhita*-It appears in all *Vataroga*, mainly in *Asthichyuti*, *Asthibhagna*, and *Asthigatavata*. *Arthavasambandhi roga*, *Veerya sambandhi roga*, *Bhrama*, *Kasa*, *Kustha*, *Krimi*, *Gulma*, *Kilasa*, *Kandu*, *visphota*, *Vaivarnya*, *Timira*, *Mutrakriccha*, *Ashmri*, *Jeernajwara*, *Shosha*, *Vatarakta Drida*, *Medhavi*, *Deerghayu*, *Sundara*, and *Santanyukta* are the people who consume this. *Shukravridhi and Maithunashakti vrudhi* are promoted.⁽¹⁷⁾

Ashtanga hridaya- According to *vagbhat* classical indication of *lasuna* is *Balya*, *Vrishya*, *Rasayana*, *Vatakaphagna*.*Lasuna* was considered the greatest of the *Vatahara dravyas* by *Vagbhata*. *Lasuna's* importance as a *Rasayana* in the treatment of *vata Avaranas* was underlined by him.⁽¹⁸⁾

Objectives: To find out the Lasuna effect as Rasayana

Methods: The study included classical Ayurvedic literature, journals, and research

publications from Google Scholar, Pubmed, and other sources.

Inclusion- In this study, we took only those studies which have *Lasuna* as a leading drug.

Toxicity study, Animal study, Single group studies, Comparative studies.

Studies were taken within 20 years.

Exclusion- We excluded those studies in which *Lasuna* does not have the main ingredient.

Studies excluded before 20 years.

Observation and result:

Sr.No.	Year of	Name of	Title	Key Finding
	publication	Author		
1.	2015	Priyanka	Rasona	Rasona should be used as a
		Sharma	Rasayana	Rasayana in daily life to prevent and
				control hyperlipidemia. The
				characteristics of Vatahara and
				Kaphamedohara are notably
				beneficial in hyperlipidemia. Rasona
				balances Dhatvagni, improves
				nutrition through Srotoshodhana,
				and has Rasayana effects on the
				body.
2.	2016	Nayana N.,	''Lasuna	Lasuna can heal disease at the Dhatu
		Ratnaprava	rasayana- An	level via neutralizing Vata through
		Mishra,	Ayurvedic	its Guru Snigdha Guna and Ushna
		Mahesh	Rejuvenating	Veerya. It also aids in the elimination
		Kundago and	Therapy".	of Avarana Vyadhis. To balance out
		James Chacko		the spiciness and heat of Garlic,
				Lasuna swarasa is served with milk.
				Garlic increases total lipids,
				triglycerides, and phospholipids in
				the liver while decreasing free fatty

				acids. As a result, it protects the
				human body.
3.	2016	Tribhuvan	Understanding	Garlic's antioxidant capabilities help
		Pareek1,	<i>Lasuna</i> as a	maintain the health of the heart and
		Sandeep	Rasayana – A	immune systems and Assist in
		Singh Tiwari,	critical review.	keeping adequate blood circulation.
		Nitin juneja		Garlic's ability to improve the
				function of the body's immune cells
				is one of its most potent health
				advantages.
4.	2021	Preeti	A Review on	Lasuna is a multifunctional female
		Agarwal,	Lasuna	body drug. Its Panchabhautik and
		Kalpna	(Garlic): A	chemical constitutions are
		Sharma,	Boon for	advantageous to females throughout
		Anjali Verma,	Women	their lives, From puberty to
		Hem Prakash		menopause, and throughout life, in
				maintaining reproductive processes
				and enabling a smooth
				postmenopausal transition.
5	2021	Vinod Kumar	Garlic in	The word Lasuna comes from Greek
		Joshi and	Traditional	and means "disease destroyer." The
		Apurva Joshi	Indian	properties-based action and
			Medicine	therapeutic benefits of Garlic-
			(Ayurveda) for	Lasuna in Ayurveda speak for
			Health and	themselves. The genus Allium
			Healing	appears to be named after one of the
				essential qualities of Lasuna, which
				is mentioned in both Ayurvedic
				scriptures.

Discussion-

Antihyperlipidemic action - Garlic has a hypocholesterolemic impact through three mechanisms: inhibition of hepatic cholesterol manufacture, increased cholesterol turnover to bile acids, and gastrointestinal excretion. Garlic raises blood levels of catalase and glutathione peroxidase, two antioxidant enzymes. It also lowers plasma malondialdehyde levels, which helps prevent heart diseases and gives safety to oxidants in the ecosystem. Atherosclerosis is caused by the buildup of intracellular and extracellular lipids. In atherosclerotic cells, garlic powder extract suppresses the formation of cholesteryl esters and triglycerides and the activity of acyl-CoA cholesterol acyl transferase.

Antihypertensive Effect - The hypotensive property of Garlic may be responsible for the increased relaxing impact on muscle tissue. Liquid garlic extract and its constituent components, such as Allicin, stimulate K+ channels, generating membrane hyperpolarization and, as a result, a reduction in Ca2+ inward prevailing into the vascular endothelial cell, leading to vasodilation due to a decrease in intracellular Ca2+. Garlic components can modify carcinogen metabolism by boosting the activity of detoxifying enzymatic systems, enhancing the carcinogen polarity and enabling its removal from the body, or blocking the activation of procarcinogens by cytochrome.

Antimicrobial Activity - Allicin inhibits thiol-containing enzymes in microorganisms, resulting in antimicrobial activity. Garlic destroys Staphylococcus, Salmonella, Vibrio, Mycobacteria, and Proteus protozoan parasites like Entamoeba histolytic and Giardia lamblia, and gram-negative, gram-positive, and acid-fast bacteria.

Garlic's hypoglycemic effect may be related to increased insulin sensitivity and prolongation of the insulin action of plasma by enhancing pancreatic insulin production from current -cells or its dissociation from binding insulin. Effect on Inflammation Garlic's anti-inflammatory properties is primarily due to its ability to hinder the cytoskeleton's construction and disassembly processes. ⁽¹⁹⁾

2) *Rasayana* is an Ayurvedic branch that aids in improving the quality of a healthy human lifestyle. The *Shodhana* performed before the administration of *Rasayana* will aid in the elimination of *Dosha* from the *shakhas*. *Lasuna*, through its *Guru Snigdha Guna* and *Ushna Veerya*, aids in the pacification of *Vata* and can cure sickness at the *Dhatu*

level. Even aids in the elimination of *Avarana Vyadhis*. To balance out the bitterness and heat of Garlic, *Lasuna swarasa* is served with milk. It is especially harmful to persons with *Pitta* body types and blood issues, as the *Tikshna Guna* of *Lasuna* can produce *Pittakopa*. ⁽²⁰⁾

3) Garlic has antihypertensive properties. Garlic reduces LDL cholesterol. Garlic aids in the reduction of plaque buildup in the arteries. According to one recent study, women had a more substantial effect than males. Garlic lowers blood sugar or aids in its regulation. Garlic inhibits the formation of blood clots, reducing the risk of strokes and thromboses (It may not be suitable for haemophilia). Garlic inhibits cancer, particularly cancer of the digestive system, and lowers the size of certain tumours by preventing them from becoming more significant. Heavy metals like lead and mercury are removed from the body with the help of Garlic. Garlic is a powerful natural antibiotic, though not as strong as modern antibiotics. While significantly weaker than current antibiotics, they can kill some bacteria types that have evolved immune or resistant to them. Antifungal and antiviral activities are found in Garlic. Garlic is high in selenium and has anti-oxidant properties. ⁽²¹⁾

4) *Lasuna's* Mode of Action in Various Female Infertility Factors: Garlic is commonly recognized as one of the best natural fertility boosters. It has approdisiac properties. It could help with a variety of infertility issues.

Tubal Factor: In *Aavaranjanya Vyadhi*, *Lasuna* is beneficial. Due to its *Teekshna*, *Ushna*, *and Vatakaphahar* qualities, this will dissolve the impediment. As a result, it could be beneficial in tubal obstruction-related infertility.

Uterine Factor: *Lasuna* has *Balya*, *Brimhana*, and *Rasayana* qualities that assist control normal menstrual flow. As a result, it improves appropriate proliferation and uterine receptivity, allowing for proper conception and implantation.

Ovulation Factor: *Lasuna* has properties such as *Deepana*, *Pachana*, *Vatanulomaka*, and *Ushna* that help with ovulation.

Lasuna's Emmenagogue Activity in Dysmenorrhea: It should be taken in dysmenorrhea because of its *Ushna Virya* and *Katu*, *Tikta Rasas*, that allow the flow of vaginal bleeding to be easy and mild. Garlic has spasmolytic actions.

Lasuna's Action in Menstruation Abnormalities: *Lasuna* is renowned for its *Ushna, Teekshna*, and *Pitta Vardhaka* properties, including its *Ushna and Teekshna* attributes. These attributes activate *Agni*, which promotes the digestion of *Ama*, the development of *Ahara Rasa*, and the subsequent formation of the *Rasa Dhatu*, from which the *Artava* emerges, and is very effective in cases of menstrual irregularities. Garlic's ingredients help with menstruation diseases like dysmenorrhea, premenstrual syndrome, and P.M.S. Benefits of *Lasuna* in Menopause: It moreover improves *Rajonivruti. Lasuna's* Actions, including *Rasayana and Balya*, were strongly advisable in *Jaravastha* for avoiding lengthy ill-health problems. Garlic and garlic derivatives like alliin, allyl cysteine, allyl disulfide, and Allicin have been shown to provide antioxidant defence against free radical damage in the body. As a result, garlic consumption during menopause is beneficial since it minimizes oxidative stress and improves postmenopausal symptoms. ⁽²²⁾

5) Garlic extract (50–500 mg/ kg) was reported to have an antihypertensive effect in preclinical research. In the isolated rat heart (Langendrorff) preparation, dietary intake of garlic powder (1.0%) for ten weeks dramatically reduced the incidence of ventricular arrhythmias after ischaemia and reperfusion. Garlic has been shown to protect experimental rats from doxorubicin and hypocholesterolemic diet-induced heart damage hypertension-induced cardiac hypertrophy. Garlic and pulmonary and its phytoconstituents have been discovered to impede platelet aggregation and increase bleeding and clotting times in experimental animals. Garlic has also been proven to have various bioactivities. Garlic was also effective in treating hypertension patients, with significant reductions in systolic and diastolic blood pressure. ⁽²³⁾

Conclusion -The approach of treatment that is explained utilizing *Rasayana* is a novel concept. Hardly any health sciences are found to have put thrust as massive as *Ayurveda*. It gives an insight into what should the treatment aim at –the establishment of *Dhatu Samya*. Hence treatment of any disease would not be complete without using *Rasayana*. The use of *Rasayana*, specific to that disease, is mentioned in the treatment of each condition, is mentioned in each *Adhyaya* of *Samhitas*, and is broadly explained in separate *Adhyayas* dedicated to it. Garlic increases total lipids, triglycerides, and

phospholipids in the liver while decreasing free fatty acids. As a result, it protects cells in the human body. Garlic improves a person's strength, intelligence, attractiveness, potency, and longevity when used regularly. Rasayana assists us in living a healthy lifestyle. Many more *Rasayanas* are described in our classics, and *Lasuna* can be used as a Rasayana in one's everyday diet. Acharya Kashyapa made a unique contribution to ladies by introducing the Nectar-like Rasayana medication. Lasuna is a multifunctional female body drug. It has analgesic, anti-hyperglycemic, and anti-hyper cholesterol properties. Garlic had a more substantial effect on cholesterol and triglycerides—anti-inflammatory properties. The common substances we eat and drink, such as water, meat, vegetables, sugar, and so on, provide energy to maintain life. However, *Rasayana* assists us in living a healthy lifestyle. Other additional *Rasayanas* described in our texts must be implemented, and the therapeutic use of Lasuna Rasayana is only the beginning.

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