Review Article Bhallataka

Check for updates

Journal of Ayurveda and Integrated Medical Sciences

Publisher

Maharshi Charaka
Ayurveda

2025 Volume 10 Number 1 JANUARY

www.maharshicharaka.in

A Review on Rasayana Karma of Bhallataka

Bhute RA¹, Chavhan KR^{2*}

DOI:10.21760/jaims.10.1.32

- ¹ Ruchita A Bhute, Post Graduate Scholar, Department of Agadtantra, Govt Ayurved College, Nagpur, Maharashtra, India.
- ^{2*} Kalpana R Chavhan, Associate Professor, Department of Agadtantra, Govt Ayurved College, Nagpur, Maharashtra, India.

Bhallataka, a revered medicinal herb, is known for its ability to penetrate deeply into tissues and rejuvenate the body, which is why ancient Ayurvedic sages held it in high esteem. Maharshi Charak emphasized its Rasayana properties and described ten different preparations using Bhallataka. He regarded it as the most effective remedy for Kaphaj Vyadhi. Charak classified Bhallataka into several categories: Dipaniya (an appetizer), Bhedaniya (to break down accumulated Doshas), Mutra Sangrahaniya (antidiuretic), and Kusthaghna (antidermatosis).

Keywords: Bhedaniya, Dipaniya, Rejuvenation

Kalpana R Chavhan, Associate Professor, Department of Agadtantra, Govt Ayurved College, Nagpur, Maharashtra, India. Email: drkalpanachavhan@gmail.com How to Cite this Article Bhute RA, Chavhan KR, A Review on Rasayana Karma of Bhallataka. J Ayu Int Med Sci. 2025;10(1):216-222. Available From https://jaims.in/jaims/article/view/3936









Introduction

Living organisms are viewed as Nityaga and Anubandha.[1] Nityaga refers to the continuous process of aging, while Anubandha describes the inherent quality of aging in specific ways and at certain intervals. The principles of Rasayana focus on delaying both chronological and qualitative aspects of aging. In the Brihtrayi texts, several Rasayana formulations feature Bhallataka, with Acharya Charaka emphasizing its Rasayana properties and detailing ten different preparations. Ayurveda, Bhallataka (Semecarpus anacardium Linn) is classified as Upvisha Dravya.[3] In modern toxicology, it is categorized as an irritant vegetable organic poison. According to government regulations, this poisonous medicinal plant is regulated under the Drugs and Cosmetic Act of 1940. Despite its toxic nature, Bhallataka must undergo a detoxification process before use, which involves rubbing the nut with brick powder and then washing it with warm water.[4]

Bhallataka also has beneficial effects on the nervous system, acting as a brain tonic that promotes intellect and strengthens the entire body. Rasayana, or Jara Chikitsa, is one of the eight branches of Ayurveda, practiced effectively for centuries. While its primary focus is on enhancing health, Rasayana also serves as a curative treatment, addressing ailments and preventing their recurrence, thus promoting longevity. This dual purpose is why Acharya Charaka dedicated the first chapter of Chikitsa Sthana to Rasayana. An ideal Rasayana prolongs life, enhances memory and intellect, boosts overall health, and provides immunity against diseases, enabling individuals to lead vibrant lives. It improves skin luster and complexion, refines voice and speech, and enhances the acuity of sensory and motor functions, contributing to overall vitality and vigor. Bhallataka possesses all these qualities, making it an effective Rasayana that helps a healthy individual achieve Prashasta Rasadi Dhathus while enhancing Medhya (intellectual) attributes.

Aim and Objectives

- 1. To Discuss, Evaluate, and Elaborate on *Rasayana* with a Focus on Rejuvenation and Promotion.
- 2. To Discuss, Evaluate, and Elaborate on the Properties of *Bhallataka*.

3. To Discuss, Evaluate, and Elaborate on the *Rasayana* Effects of *Bhallataka*.

Materials and Methods

This article draws on personal experiences and a review of relevant texts. Information about the *Rasayana* effects of *Bhallataka* was gathered from the *Brihatrayi*, *Laghutrayi*, *Nighantu*, and their commentaries. Additionally, modern texts and various websites were consulted to supplement the research on related topics.

Conceptual Study

Table 1: Properties of drugs exhibiting Rasayana Effects[5]

SN	Sanskrit	English Equivalent				
1.	Deergham Aayu	Prolonging Age				
2.	Smriti	Enhancing Memory				
3.	Medha	Enhancing Intellect				
4.	Aarogya	Disease Prevention				
5.	Tarun Vaya	Youthfulness				
6.	Prabha	Enhancing Luster				
7.	Varna	Improving Complexion				
8.	Swar	Maintaining Voice				
9.	Dehendreeya Bala	Strengthening body senses				
10.	Vaak Sidhhi	Empowers oratory				
11.	Pranati	Promotes gentleness				
12.	Kanti	Glow of the body				

Table 2: Bhallataka having properties like Rasayana

Properties	Ch	Su	Vag	Vrinda	Kaideva	Guna	ВР
	[6]	[7]	[8]	Madhav	Nighantu	Ratnamala	[12]
				[9]	[10]	[11]	
Deergh Aayu	>	>	>	>			
Smriti			>				
Medha	>		>	√	√	/	✓
Aarogya				✓			
Tarun Vaya	√			✓			
Prabha							
Varna		✓	✓				
Swar							
Dehendriva Bala		√	✓		✓	/	
Vaak Sidhhi							
Praniti							
Kanti							
Vrishya	/			✓	√	√	√
Rasayana	>		/	✓			✓

Table 3: Common Characters of Bhallataka

Nighantu	Bhavaprakash	Dhanvantari	Raj	Kaideva	Madanpal	
	Nighantu	Nighantu	Nigha	Nighantu	Nighantu	
Characters	[13]	[14]	ntu	[16]	[17]	
			[15]			
Guna	Laghu	-	-	Laghu	Laghu	
Rasa	Kashaya,	Katu, Tikta	Katu,	Tikta,	Kashaya,	
	Madhura	Madhura	Tikta,	Kashaya,	Madhura	
			Kashay	Madhura		
			а			
Veerya	Ushna	Ushna	Ushna	Sheeta	Ushna	
Vipaka				Katu	-	
Karma	Shukrala		-	Grahi,	Shukrala	
				Deepana		
Doshaghnata	V-K	V-K	V-K	P-K	V-K	
Rogaghnata	Udara, Aanaha,	Krimi, Gulma,	Prame	Raktavikar	Udara,	
	Kushtha,	Arsha,	ha,	, Kushtha,	Aanaha,	
	Arsha, Grahani,	Grahani,	Arsha	Arsha,	Kushtha,	
	Gulma, Jwara,	Kushtha		Gulma,	Arsha,	
	Kshwitra,			Shopha	Grahani,	
	Agnimandya,				Gulma,	
	Krimi, Vrana				Jwara,	
					Kshwitra,	
					Agnimandya	
					, krimi,	
					Vrana	

Previous Research work of Semecarpus anacardium

Antioxidant effect (Free radical scavenging activity)

- Verma et al. studied the antioxidant properties of the aqueous extract from the nuts of the medicinal plant SA in the liver of AKR mice during lymphoma development. Their findings revealed that administering the aqueous extract of SA to lymphoma-transplanted mice resulted in increased activity of antioxidant enzymes and a significant reduction in LDH activity, suggesting a decrease in carcinogenesis.[18]
- Sahoo et al. examined the antioxidant activity of the ethyl acetate extract from the stem bark of SA. This extract demonstrated the strongest antioxidant activity, attributed to its high total phenolic content of 68.67% (measuredas pyrocatechol equivalent), outperforming other extracts (hexane, chloroform, and methanol). From the ethyl acetate extract, a bright-yellow solid crystal was isolated and identified as butein.

 This compound exhibited antioxidant activity with an IC50 value of 43.28 ± 4.34 μg/ml, comparable to that of rutin, which served as the standard.[19]

Anti-inflammatory effect

- Ramprasathet et al. studied the antiinflammatory effects of SA nut extract on both
 developing and established adjuvant arthritis.
 The extract from Semecarpus anacardium
 significantly reduced carrageenan-induced paw
 edema and cotton pellet granuloma formation.
 These findings highlight the potent antiinflammatory properties and therapeutic efficacy
 of SA Linn. nut extract throughout all phases of
 inflammation, comparable to those of
 indomethacin.[20]
- Bhitre et al. prepared methanolic, ethanolic, chloroform, ethyl acetate, and petroleum ether extracts from the fruits of SA and evaluated their anti-inflammatory activity using the carrageenan-induced paw edema model in albino rats. The extracts demonstrated significant anti-inflammatory effects comparable to the reference standard, aspirin.[21]
- Salvem et al. discovered that the ethyl acetate extract of SA allowed for the isolation of a major active compound, tetrahydroamentoflavone (THA), a biflavonoid. In vitro assays measuring cyclooxygenase (COX-1)-catalyzed prostaglandin biosynthesis revealed an IC50 value of 29.5 μM for THA and a 40.5% inhibition at a concentration of 100 μg/mL for COX-2. In vivo, the carrageenan-induced paw edema assay demonstrated a dose-dependent anti-inflammatory effect of THA, comparable to that of ibuprofen.[22]
- Satayavati et al. and Bajpai et al. reported the anti-inflammatory activity of SA for both immunological & non-immunological origins. [23]
- Singh et al. evaluated the ability of SA extract to inhibit pro-inflammatory cytokine production. The extract of Semecarpus anacardium significantly reduced both spontaneous and LPS-induced production of the pro-inflammatory cytokines IL-1beta and IL-12p40, but it did not affect TNF-alpha and IL-6 levels at either the protein or mRNA level. Additionally, the extract suppressed LPS-activated nitric oxide production in mouse macrophage cell line RAW 264.7.[24]

Premlatha et al. reported the immunomodulatory potency, antioxidative properties, membrane stabilization, tumor marker regulation, glucose level restoration, and mineral regulation effects of nut extract in hepatocellular carcinoma. They found that the extract detoxifies the potent hepatocarcinogen aflatoxin B1, facilitating the excretion of its metabolites in urine.[25]

Anti atherogenic effect

Sharma et al. demonstrated that SA has cardiac activity, primarily by reducing tissue and serum hyperlipidemia through the inhibition of intestinal cholesterol absorption and promoting peripheral disposal. This mechanism contributes to its anti-atherosclerotic properties.[26]

Anti-microbial activity

- Mohanta et al. investigated the antimicrobial activity of Semecarpus anacardium using the disc diffusion method with various extracts. The ether and petroleum aqueous extracts demonstrated inhibitory effects against Staphylococcus aureus (10 mm) and Shigella flexneri (16 mm) at a concentration of 100 mg/ml. Additionally, the chloroform extract inhibited Bacillus licheniformis, Vibrio cholerae, and Pseudomonas aeruginosa, while the ethanol extract showed inhibition against Pseudomonas aeruginosa and S. aureus.[27]
- Nair et al. discovered that the alcoholic extract of dry nuts from Semecarpus anacardium exhibited bactericidal activity in vitro against three gram-negative strains (Escherichia coli, Salmonella typhi, and Proteus vulgaris) as well as two gram-positive strains (Staphylococcus aureus and Corynebacterium diphtheriae). Further studies revealed that alcoholic extracts from various parts of the plant, including leaves, twigs, and green fruit, also possess antibacterial properties, with the leaf extract showing particularly strong effects.[28]

CNS activity

■ Farooq et al. assessed the beneficial effects of SA nuts extracted with milk on the central nervous system (CNS), specifically focusing on locomotor and nootropic activities in various experimental animal models. The extract demonstrated only a slight CNS depressant effect at a dose of 150 mg/kg, while also exhibiting nootropic activity.[29]

Hypoglycemic effect

■ Arul et al. investigated the effects of an ethanolic extract of dried SA nuts on blood glucose levels in both normal (hypoglycemic) and streptozotocin-induced diabetic (antihyperglycemic) rats. At a dosage of 100 mg/kg, the extract significantly reduced blood glucose levels in normal rats. Blood glucose measurements were taken at 0, 1, 2, and 3 hours post-treatment, and the antihyperglycemic activity of SA was compared to tolbutamide, a sulfonylurea derivative used in the treatment of diabetes mellitus.[30, 31]

Anti-carcinogenic activity

- Mathivadhani et al. studied the inhibitory effects of Semecarpus anacardium nut extract on the human breast cancer cell line T47D. At the molecular level, these effects were associated with a decrease in Bcl-2 and an increase in Bax, cytochrome c, caspases, and PARP cleavage, ultimately leading to internucleosomal DNA fragmentation.[32]
- Arulkumaran et al. investigated the protective efficacy of a preparation called Kalpaamruthaa (KA), which contains SA nut milk extract, dried powder of Phyllanthus emblica fruit, and honey, against peroxidative damage and abnormal antioxidant levels in the hepatic mitochondrial fraction of rats induced with mammary carcinoma using 7,12-dimethylbenz(a)anthracene (DMBA). Based on the observed results, KA is suggested as a readily accessible, promising, and novel cancer chemopreventive agent.[33]
- Sugapriya et al. demonstrated that treatment with SA nut milk extract restored energy metabolism in leukemic mice. Compared to control animals, leukemia-bearing significant exhibited a increase in lipid peroxidation products (LPOs) and glycolytic along decrease enzymes, with а gluconeogenic enzymes and significant reductions in the activities of TCA cycle and respiratory chain enzymes. The effects of Semecarpus anacardium were compared with the standard drug imatinib mesylate. Administration of Semecarpus anacardium to leukemic animals led to the clearance of leukemic cells from both the bone marrow and internal organs.[34]

Discussion

Rasayana offers a holistic approach to promoting healthful longevity, encompassing mental development and enhancing disease resistance. It is a specialized form of treatment that influences fundamental bodily aspects, including *Dhatu, Agni,* and *Srotas*.

Different *Rasayana* drugs may exert predominant effects at various levels, thanks to their diverse pharmacodynamic properties. Rather than representing a specific pharmacological action, the *Rasayana* effect is a complex phenomenon that operates through a comprehensive mechanism involving essential factors.

This includes enhancing the quality of the *Sapta dhatu* through *Prashast Rasadi-Samvahan* to boost immunity, improving agni to enhance metabolism, and optimizing *srotas* for better endocrine and exocrine secretions. Ultimately, this integrated approach may lead to the comprehensive effects described by Charaka: "*Labhopayo Hi Shastanam – Rasadinam Rasayanam.* [35]

Rasayana effects are described in terms of Vayasthapana, Ayushkara, Medhakara, and Urjaskara. For instance, drugs like Bhallataka operate at the level of Rasa by enhancing the specific nutritional qualities of Poshak Rasa. The properties of Madhura Vipaka and Snigdha Guna also contribute to Rasayana effects by promoting the nutritional value of Rasa, which in turn helps achieve optimal qualities of Dhatus.

Bhallataka primarily impacts Agni , or digestion and metabolism, due to its Ushana Veerya, Laghu Guna and the Katu, Tikta, Kashaya Rasas. This vitalizes organic metabolism, leading to improved structural and functional patterns of dhatus , resulting in Prashasta Dhatus or timal biotransformation for producing high-quality bodily tissues, delaying senility, and preventing age-related diseases.

As an *Upvisha*, *Bhallataka* possesses *Laghu*, *Ruksha*, *Aashu*, *Vishad*, *Vyavayi*, *Teekshna*, and *Ushna Gunas*, which help eliminate *Ama* and clear the *Srotasas*, or microchannels of the body's systems. This process facilitates the nourishment of all tissues (*Dhatus*) and reveals the *Rasayana* effect within the body. Additionally, its *Medhakara* properties enhance mental faculties.

Conclusion

Bhallataka is a valuable drug known for its effective promotive action, categorizing it among the major Rasayana drugs. Supported by both pharmacological and biological activities, it has classical validation of its efficacy. Consequently, Bhallataka offers restorative, age-sustaining, tissuenutritive, and antioxidant properties, making it a potent option in Rasayana therapy.

References

- 1. Shastri SS. Caraka Samhita of Agnivesa. Sutra Sthan 1/42. Varanasi: Chaukhamba Bharati Academy; 2005 (Reprint). p. 13 [Crossref][PubMed] [Google Scholar]
- 2. Shastri SS. Caraka Samhita of Agnivesa. Chikitsa Sthan 1-2/16. Varanasi: Chaukhamba Bharati Academy; 2009 (Reprint). p. 33 [Crossref][PubMed] [Google Scholar]
- 3. Shastri K. Rasa Tarangini of Sadanand Sharma. 24 Tarang/163. Delhi: Motilal Banarasidas Academy; 1973. 9th ed. p. 676 [Crossref][PubMed][Google Scholar]
- 4. Shastri K. Rasa Tarangini of Sadanand Sharma. 24 Tarang/477-478. Delhi: Motilal Banarasidas Academy; 1973. 9th ed. p. 735 [Crossref][PubMed] [Google Scholar]
- 5. Shastri SS. Caraka Samhita of Agnivesa. Chikitsa Sthan 1-1/8. Varanasi: Chaukhamba Bharati Academy; 2009 (Reprint). p. 5 [Crossref][PubMed] [Google Scholar]
- 6. Shastri SS. Caraka Samhita of Agnivesa. Chikitsa Sthan 1-2/13-19. Varanasi: Chaukhamba Bharati Academy; 2009 (Reprint). p. 28-34 [Crossref] [PubMed][Google Scholar]
- 7. Shastri A. Sushruta Samhita of Maharshi Sushruta. Chikitsa Sthan 6/17-18. Varanasi: Chaukhamba Sanskrit Sansthan; 2014 (Reprint). p. 51 [Crossref][PubMed][Google Scholar]
- 8. Tripathi B. Astanga Hridaya of Vagbhatta. Nirmala Hindi Commentary. Uttar Sthan 39/78. *Varanasi: Chaukhamba Sanskrit Pratishthan; 2014 (Reprint). p. 1192 [Crossref][PubMed][Google Scholar]*

Ruchita AB et al. A Review on Rasayana Karma of Bhallataka

- 9. Tewari P. Vrindmadhav or Siddha Yoga of Vrinda. Rasayanadhikar 69/39-40. Varanasi: Chaukhamba Visva Bharati Academy; 2007. p. 662 [Crossref] [PubMed][Google Scholar]
- 10. Sharma P, Sharma GP. Kaiyadeva Nighantu. Oshadhivarga/121. Varanasi: Chaukhamba Orientalia; 2009 (Reprint). p. 90 [Crossref] [PubMed][Google Scholar]
- 11. Pandey KP, Singh AN. Gunaratnamala of Shri Bhavmisra. Haritkyadivarga, Bhallataka. Varanasi: Chaukhamba Sanskrit Sansthan; 2006. 1st ed. p. 80 [Crossref][PubMed][Google Scholar]
- 12. Chunekar KC. Bhavaprakasha Nighantu of Shri Bhavamisra. Haritakyadivarga/232. Varanasi: Chaukhamba Bharati Academy; 2013 (Revised & enlarged ed.). p. 134 [Crossref][PubMed][Google Scholar]
- 13. Chunekar KC. Bhavaprakasha Nighantu of Shri Bhavamisra. Haritakyadivarga/232. Varanasi: Chaukhamba Bharati Academy; 2013 (Revised & enlarged ed.). p. 134 [Crossref][PubMed][Google Scholar]
- 14. Sharma P, Sharma GP. Dhanvantari Nighantu. Chandanadivarga/129. Varanasi: Chaukhamba Orientalia; 2008 (Reprint). p. 114 [Crossref] [PubMed][Google Scholar]
- 15. Tripathi I. Raj Nighantu of Pandit Narhari. Amradivarga Bhallataka/68. Varanasi: Chaukhamba Krishnadas Academy; 2003. *3rd ed. p. 353* [Crossref][PubMed][Google Scholar]
- 16. Sharma P, Sharma GP. Kaiyadeva Nighantu. Oshadhivarga/121. Varanasi: Chaukhamba Orientalia; 2009 (Reprint). p. 90 [Crossref] [PubMed][Google Scholar]
- 17. Pandey G. Madanpal Nighantu of Shri Nrip Madanpal. Abhayadivarga, Bhallataka/281. Varanasi: Chaukhamba Orientalia; 2012. *1st ed. p. 200 [Crossref][PubMed][Google Scholar]*
- 18. Verma N, Vinayak M. Semecarpus anacardium nut extract promotes the antioxidant defense system and inhibits anaerobic metabolism during the development of lymphoma. Biosci Rep. 2009;29(3):151-64. [Crossref][PubMed][Google Scholar]

- 19. Sahoo AK, Narayanan N, Sahana S, Rajan SS, Mukherjee PK. In vitro antioxidant potential of Semecarpus anacardium L. Pharmacologyonline. 2008;3:327-35. [Crossref][PubMed][Google Scholar]
- 20. Ramprasath VR, Shanthi P, Sachdanandam P. Immunomodulatory and anti-inflammatory effects of Semecarpus anacardium LINN. nut milk extract in experimental inflammatory conditions. Biol Pharm Bull. 2006;29:693-700 [Crossref][PubMed][Google Scholar]
- 21. Bhitre MJ, Patil S, Kataria M, Anwikar S, Kadri H. Anti-inflammatory activity of the fruits of Semecarpus anacardium Linn. Asian J Chem. 2008;20:2047-50. [Crossref][PubMed][Google Scholar]
- 22. Selvam C, Jachak SM. A cyclooxygenase (COX) inhibitory biflavonoid from the seeds of Semecarpus anacardium. J Ethnopharmacol. 2004;95:209-12. [Crossref][PubMed][Google Scholar]
- 23. Satyavati GV, Prasad DN, Das PK, Singh HD. Anti-inflammatory activity of Semecarpus anacardium Linn. A preliminary study. Indian J Physiol Pharmacol. 1969;13:37-45 [Crossref] [PubMed][Google Scholar]
- 24. Singh D, Agarwal A, Mathias A, Naik S. Immunomodulatory activity of Semecarpus anacardium extract in mononuclear cells of normal individuals and rheumatoid arthritis patients. J Ethnopharmacol. 2006;108:398-406. [Crossref] [PubMed][Google Scholar]
- 25. Premalatha B, Sachdanandam P. Potency of Semecarpus anacardium Linn. nut milk extract against aflatoxin B(1)-induced hepatocarcinogenesis: Reflection on microsomal biotransformation. Pharmacol Res. 2000;42:161-66 [Crossref][PubMed][Google Scholar]
- 26. Sharma A, Mathur R, Dixit VP. Hypocholesterolemic activity of nut shell extract of Semecarpus anacardium (Bhilawa) in cholesterolfed rabbits. Indian J Exp Biol. 1995;33:444-48. [Crossref][PubMed][Google Scholar]
- 27. Mohanta TK, Patra JK, Rath SK, Pal DK, Thatoi HN. Evaluation of antimicrobial activity and phytochemical screening of oils and nuts of Semecarpus anacardium. Sci Res Essay. 2007;2:486-90. [Crossref][PubMed][Google Scholar]

Ruchita AB et al. A Review on Rasayana Karma of Bhallataka

- 28. Nair A, Bhide SV. Antimicrobial properties of different parts of Semecarpus anacardium. Indian Drugs. 1996;33:323-28. [Crossref][PubMed][Google Scholar]
- 29. Farooq SM, Alla TR, Rao NV, Prasad K, Shalam K, Satyanarayana S. A study on CNS effect of nut milk extract of Semecarpus anacardium. Pharmacology. 2007;1:49-63. [Crossref][PubMed] [Google Scholar]
- 30. Arul B, Kothai R, Christina AJ. Hypoglycemic and antihyperglycemic effect of Semecarpus anacardium Linn in normal and streptozotocin-induced diabetic rats. Methods Find Exp Clin Pharmacol. 2004;26:759-62. [Crossref][PubMed][Google Scholar]
- 31. Kothai R, Arul B, Kumar KS, Christina AJ. Hypoglycemic and antihyperglycemic effects of Semecarpus anacardium linn in normal and alloxan-induced diabetic rats. J Herb Pharmacother. 2005;5(2):49-56. [Crossref][PubMed][Google Scholar]
- 32. Mathivadhani P, Shanthi P, Sachdanandam P. Apoptotic effect of Semecarpus anacardium nut extract on T47D breast cancer cell line. Cell Biol Int. 2007;31:1198-206. [Crossref][PubMed][Google Scholar]

- 33. Arulkumaran S, Ramprasath VR, Shanthi P, Sachdanandam P. Alteration of DMBA-induced oxidative stress by additive action of a modified indigenous preparation—Kalpaamruthaa. Chem Biol Interact. 2007;167:99-106. [Crossref][PubMed] [Google Scholar]
- 34. Sugapriya D, Shanthi P, Sachdanandam P. Restoration of energy metabolism in leukemic mice treated by a siddha drug: Semecarpus anacardium Linn. nut milk extract. Chem Biol Interact. 2008;173:43-58 [Crossref][PubMed][Google Scholar]
- 35. Shastri SS. Caraka Samhita of Agnivesa. Rasayanadhyay 1-1/8. Varanasi: Chaukhamba Bharati Academy; 2009 (Reprint). p. 5 [Crossref] [PubMed][Google Scholar]

Disclaimer / Publisher's Note: The statements, opinions and data contained in all publications are solely those of the individual author(s) and contributor(s) and not of Journals and/or the editor(s). Journals and/or the editor(s) disclaim responsibility for any injury to people or property resulting from any ideas, methods, instructions or products referred to in the content.