A CRITICAL REVIEW OF ŚIŁĀ, JIT - ASPHALTUM PUNJABINUM

C. Murali Krishna*, B. Srinivasulu** & D. Nagamani**

ABSTRACT

Rasaśāstra, the Ayurvedic alchemy, is an important branch of Ayurveda. This branch deals with the use of metals, minerals, gemstones and their processing. The minerals and metals are very effective and potent for immunization, rejuvenation and elimination of diseases. The significant one among these is Silājit. Silājit is considered as one of the wonder medicines of Ayurveda. It is found in usage since prehistoric period and there is evidence of usage of Silājit as medicament in the Indus civilization. Silājit has been used traditionally as a panacea and it is a versatile remedy for the rehabilitation of muscles, nerves and bones. It is known as a strong kidney tonic and is said to increase the body's core energy, responsible to sexual and spiritual power. Silājit is truly a remarkable substance with a long history of human usage and should be subjected to further investigations. In this article all possible efforts are made to present the information regarding ancient and modern literature of Silājit in detail.

Śilājit is a pale-brown to blackish brown gummy exudation substance of variable consistency on rock mountain ranges of the world. Researchers have found the degraded components of several different medicinal plants in samples of Śilājit including Euphorbia royleana and Trifolium repens, leading to the idea that Śilājit is mainly derived from the humification of a variety of resin or latex containing plants.

Silājit in Sanskrit means 'conqueror of mountains & destroyer of weakness'. It is the most important drug in Ayurvedic system of medicine. Caraka (1st Century A.D.) described as 'There is hardly any curable disease which cannot be controlled or cured with the aid of Silājit.' Suśruta sarihitā describes Silājit as a cure for all diseases as well as able to increase the longevity from 100 to 1000 years of age. It has been used to treat various clinical conditions ranging from Anemia, Edema, Diabetes, Hormonal imbalances, Kidney disorders, Arthritis, Allergic manifestations, Insanity, Epilepsy and many Geriatric complaints. Recent studies also confirm that the extracts of Silājit contain significant amounts of fulvic acids,

which is responsible for many therapeutic properties of Śilājit. It also contains 84 types of minerals in natural ionic form which are very vital for maintaining the equilibrium of energy metabolism in our body. The minerals in Śilājit are not similar to the mineral supplements available in market. These minerals have previously been absorbed in ionic form by rich plant life and returned back to earth by humification and hence are easily absorbed by the body cells.

Though Śilājit has a long history of its usage by the Indians from the ancient times, it is not directly mentioned in vēda and its contemporary literatures. Brihat Rasa rāja sundaram of Dattaram Chowbe, a compilation work on many ancient Rasaśāstra grantha explains the mythological origin of Śilājit in detail. During the vigorous process of samudramanthana (churning of ocean by the deities and demons), sweat was formed due to friction and was spilled out in the ocean from mandarācala mountain. Later a shiny substance looked like moon emerged and the same was bestowed to all the mountains by the deities for the benefit of human beings. This gifted gummy exudation which comes out from the rocks of mountains due to strong heat of sun was presumed to have equal properties of amṛt or soma and thus known as Amṛta Śilājit.³

Samhitā and Rasagrantha

Cakrapāṇi, while commenting on pārthiva auṣadhi of Carakasamhitā sūtrasthāna, considered the lohamala as Śilājit. In this context Śilājit exudating from the stones of four types of metals viz., gold, silver, copper and iron were explained. The authors of Cakradatta, Rasēndra Cintāmani and Rasajalanidhi etc followed the descriptions of Caraka.

Suśruta has the same opinion regarding the origin of Śilājit and further emphasized the specific season of exudation i.e. Jyēṣṭha and Āṣāḍha (June and July). The authors of Śārngadharasamhitā, Bhāvaprakāśa, Rasāmṛta etc. followed the description of Suśruta, while Specific origin of Śilājit was not found in the texts of Aṣṭāngahṛdaya and Aṣṭāngasangraha.

Rasārṇava is a medieval classical text in which the time of origin of Śilājit is considered as summer and this exudation is due to the excess heat and melting of mountain. The authors of Āyurvēdaprakāśa, Rasēndrapurāṇa, Yogaratnākara etc. followed the idea of Rasārṇava.

Further Śilājit has been extensively mentioned in ancient Hindu literature. King Candra Varma who is supposed to have ruled much of Northern India had to spend most of his youthful years in governing the vast empire, waging wars and protecting it from enemies. When he wanted to enjoy the pleasure of life he realized that he had lost most of his youthfulness and then he went on penance in the mountains of Himalayas and prayed to Lord Śiva. Lord Śiva was pleased with his prayer and offered him a substance (Śilājit)

originating from his body, which has restored King Candra Varma's youthfulness. There is also extensive mention of Śilājit in Kāmasūtra and Kauṭilya Arthaśāstra as a powerful aphrodisiac and restorer of youthfulness.

Though Śilājit was in use from ancient times its authentication and identification on modern grounds was done by British Explorer Sir Martin Edward Stanley, who first discovered Śilājit by observing the attitude of monkeys in higher altitude of Himalayas. While reviewing the Modern literature of the Śilājit, many viewers catch the attention of controversy regarding its origin. Scientists have held widely varying views on mode of occurrence, nature and composition of Śilājit. Stevenson (1833), Campbell and Shermil (1846), Lawder (1871), Oldham and Leigh (1921) have regarded Śilājit as alum or impure sulphate of alumina. Later on Campbell Lawder and Trial regarded Śilājit as bitumen or mineral resin. Singh & Sharma (1970), Pandey (1973) Lal, Pandey and Kapoor (1988) considered Śilājit to be of vegetable origin. Chopra in 1958 opined it to be of animal product.

Silājit was rediscovered by a folklore study followed by the observation on large white monkeys on Himalayan region. Himalayan villagers observed large white monkeys migrating to the mountains in the warm summer months. The monkeys were seen to be chewing a semi-soft substance that flowed between layers of the rock. The villagers attributed the monkey's great strength, longevity and wisdom to the substance. They also began to consume it themselves and reported a broad spectrum of improvements in health. It seemed to give them more energy, to relieve digestive problems, increase sex drive, improve memory and cognition, improve in the condition of diabetes, reduce allergies, improve the quality and quantity of life and ultimately seemed to cure all diseases. This rediscovery supports many of already established properties of Silājit mentioned in Ayurvedic literature.

Review

Though Śilājit is mainly categorized under the eight Mahārasa, it is also placed in different groups like Uparasa, Dhātu varga, Dhātvādi varga, Dhātūpadhātu varga, Suvarṇādi varga, Candanādi varga, ūṣakādi gaṇa by various authors of Rasa texts.





Śilājit

Vernacular Names

Sanskrit: Śilājatu

Hindi, Gujarati and Marathi: Śilājit, Ral-yahudi

Bengali: Silajatu

Tamil: Uerangyum, Perangyum

Arabic: Hajar-ul-musa

Persian:Momiai Faqurual YahudRussian:Muyemmio, Mumie

Malayalam: Kanmadam

English: Asphalt, Mineral Pitch, Jew's pitch, Vegetable Asphalt

Latin: Asphaltum punjabinum

Etymological Derivation

The word $Sil\bar{a}jatu$ is derived from $Sil\bar{a} + jatu$, (शिलातो जायते। (वाचस्पत्य); शिलाजातं जतु। (वाचस्पत्य); शिलाया जात्वेव । (अमरकोश) which means 'the odorous material which originated from mountain / rock'.

Synonyms

atithi, adrijatu, adrēya, aśmajam, aśmasāra, aśmottha, cakram, dhātu, dhātujam, gairēya, girija, girijatu, jatu, jatvāśmaka, śila, śilābhyam, śilāsvēda, śailēya, śilādhātu, śailēya, śailodbhava, śilāniryāsa.

Synonyms Significance

Adrijatu, adrēya, aśmajam, aśmottha, dhātu, dhātujam, girih, girija, gairēya,

śila, śilābhyam śailēya, śaila, śailodbhava. Indicates the origin of Śilājit.

Jatu,Jatvāśmaka, adrijatu, aśmajatu, aśmajātukam, Girijatu, śilājatu, śilāniryāsa,

śilāsvēda, śilamahe, śilavyadhi. Indicates the state of Śilājit.

Silādhātu, śailadhātu, śailottha, Dhātuja. Indicating the mineral property of the Śilājit. Uṣṇaja. Indicates the season in which it occurs.

Availability

'Silājit'is a blackish-brown exudation of variable consistency, obtained from steep rocks of different formations found in the Himalayas at altitudes between 1000-5000 m. Silājit is also found in other mountain ranges of the world, e.g. Afganisthan (Hindukush, Badakh-

Shan), Australia (Northern Pollock Ranges) and in the former USSR (Tien-shan, Pamir, Caucasus, and Ural).8

Varieties

Based on origin, *Carak*a classified *Śilājit* into 4 types Viz. 1. *Svarṇa* (Gold) 2. *Rajata* (Silver) 3. *Tāmra* (Copper) 4. *Lauha* (Iron); *Suśruta* into 6 types Viz, above 4, *Nāga* and *Vaṅga*; *Rasaratnasamuccaya* has 3 types namely *Svarṇa*, *Rajata* and *Tāmra*; *Rasārṇava* has 2 types i.e *Patita*- originated from *Mruttikā* (earth) and (2) *Apatita*- originated from mountains.

Based on smell, *Rasaratnasamuccaya* has another classification by separating Śilājit to *Gomūtragandhi Śilājit* and *Karpūragandhi Śilājit*. This *Gomūtragandhi Śilājit* is further divided to two types namely *Sasatva* and *Niḥsatva*.⁹

According to Rasendra sārasaṅgraha Śilājit is of two types Girija and Ūṣaraka. This Girija variety is further divided to 6 types namely (i) Kāñcana (ii) Rajata (iii) Tāmra (iv) Lauha (v) Vaṅga (vi) Yaśada. Based on color Ūṣaraka is divided to 2 types i) Kṣāra or White coloured (ii) Red coloured like fire.¹⁰

Śōdhana of Śilājit

In order to free Śilājit from impurities (due to foreign matters and contaminations caused by worms, flies, and poisonous drugs) it needs proper purification. Proper extraction is very much useful to achieve high level of active ingredients and to eliminate inactive substances, harmful free radicals, mycotoxins producing fungi and fungal toxins. Studies reveal approximately 40% of the raw material remains after extraction.

Gomūtragandhi Śilājit

Dr	ravya Procedure	
1.	Hot decoction of <i>Triphalā</i> (Three myrobalans)	Immersion for 7 times ¹¹
2.	Decoction of Sālasarādi group of drugs	Bhāvanā (trituration) for 10, 20 and 30 days
3.	Kṣāra (alkali), Amlavarga (sour group), gomūtra (cow's urine) or with ghṛta (ghee)	Boiling ¹²
4.	Godugdha (cow milk), decoction of <i>Triphalā</i> , and juice of <i>Bhṛṅgarāja</i> (Eclipta alba Hassk)	Bhāvanā for 1 day in each drug in an iron container followed by drying ^{13,14,15}
5.	Triphalā decoction, godugdha, gomūtra	Sūryātāpi ^{16,17}
6.	Nimba (Azadirachta indica A. Juss), guḍūcī (Tinospora cordifolia (willd) Miers), Indrayaya	

(seeds of *Holarrhena antidysenterica* Wa11) *Bhāvanā* in Iron vessel¹⁸

- 7. *Uṣṇa jala* (hot water), *Triphalā* decoction *Sūryātāpī*, Agnitāpī ¹⁹
- 8. Kṣāra, Amla & Guggulu(Commiphora mukul) Bhāvanā and Svēdana^{20,21}

Karpūragandhi Šilājit

Ancient *Rasācārya* have described the *Śodhana* of *Karpūragandhi Śilājit* by *Bhāvanā* (trituration) with the decoction of *Ēlā* (Elettaria cardamornum Maton) (RRS 2/118, R.Cd 10/109, Ba 25th chapter, RP 45).

Mārana:

Though this process is said not applicable, some texts like RRS, stated *Māraṇa of Śilājit* by mixing it with *Gandhaka*, *Manaḥśilā* and *Haritāla*, triturating with lime juice and finally subjecting for incineration in *Gajapuṭa.*²²

Sattvapātana

This process is also not preferable for *Śilājit* as it is of very soft in nature. But authors of R.R.S, A.P (4/133), R.Cd (10/107), RP (45) are in favour of *Sattvapātana* of *Gomūtra Śilājit* by triturating with *Drāvakagaṇa* and *Amlavarga* and subjecting for incineration to get *sattva* (extract) resembling iron. Though *sattvapātana* of *Gomūtragandhi Śilājit* is indicated by *R.R.S* and *R.Cd* it is contra indicated *for Karpūragandhi Śilājit*.

Identification and Authentication

The authenticity tests mentioned in Ayurvedic texts are of crude in nature. RSS, RT, R Cd, R.P, *Basavarājīyam* etc. mentioned the testing techniques as follows:

The drug is supposed to be authentic^{23,24}

- If Śilājit put on fire erect perpendicularly (liṅgōpa) and burn with out smoke.
- If put in water (in glass container) comes down slowly after spreading like fibre.
- If it burn without emitting any smoke, and appears like Lōhakiṭṭa (oxidized iron)-(RP vol-11)
- If it smells like cow urine.

According to the modern literatures, the general appearance of *Silājit* is that of a compact mass of vegetable organic matter composed of a dark-red gummy matrix interspersed with vegetable fibers, sand and earthy matter. The gummy substance dissolves in water and when washed away leaves an earthy matter, vegetable fibers and a few black round button-like masses (1/8 in. in diameter) resembling peas (Chopra 1958).

Based on Mineralogy, *Śilājit* is oxygenated hydrocarbon of different types, Amorphous in nature G =1-1.8; luster is that of Black Pitch; Melting point 90-1000C. It gives bright flame when burnt. It is soluble in turpentine.

Chemical analysis shows gums, albuminoids, traces of resin and fatty acid, a large quantity of benzoic and hippuric acids and their salts. The chief active substances in it are benzoic acid and benzoates (Chopra 1958). The major amino acid composition in the latex of E. royleana was similar to that of Śilājit (Ghosal 1976). Śilājit is naturally high in iron and other valuable minerals (Tierra 1988).

Śilājit has long been regarded as a bitumen (asphalt) or mineral resin, or as a plant fossil exposed by elevation of the Himalayas, has now been subjected to extensive chemical investigations and it has now been shown to contain significant quantities of organic compounds, including bioactive oxygenated dibeno-alpha-pyrones, tirucallane triterpenes, phenolic lipids and small tannoids. Śilājit obtained from different sources, has now been standardized on the basis of its major organic constituents (Ghosal 1991).²⁵

Śilājit is essentially constituted of fresh and modified remnants of humus (10-70% of the water-soluble fraction of Śilājit), admixed with plant and microbial metabolites occurring in the rock rhizosphere of its natural habitat (Mukherjee 1992).²⁶

Chemical Composition

Analyzed by Hooper Water = 08.85% Organic matter = 56.20% Mineral matter = 34.95% Nitrogen = 01.03% Lime = 07.80% Potash = 09.07% Phosphoric acid = 00.16% Silica = 01.35%

Śilājit mainly contain Hippuric acid (5.5%) and Benzoic acid (6.8%) and also minerals such as Iron, Aluminium, Magnesium, Potasium, Calcium, Chlorides, Sulphate etc. It acts as antiseptic, parasecticidal; these are due to free benzoic acid properties.

Properties

Śuddha Śilājit is tikta rasa (bitter in taste) and kaṭu in vipāka (pungent on post digestive effect). It is neither hot nor very cold in potency.²⁷

It is Kaphahara (reduces Kapha dośa) [A.S; R.J.N]; Vātahara (reduces Vāta dośa) (RT)

Properties of various types of Silājit

Śilājit Type (derived from stone containing)	Color	Rasa (taste)	Vīrya (potency)	Vipāka (post digestive effect)	Doșic action	Bodily actions
Svarņa (Gold)	like the flower of Japā (hibiscus)	tikta	śīta	kaţu	VP śāmaka	Rasāyana karma.
Rajata (Silver)	Pāṇdu	kaţu	śīta	madhura nāśaka.	KP śāmaka	Pāṇḍuroga
Tāmra (Copper)	Nīlābha (peacock throat)	tikta	ușņa	kaţu	Kapha śāmaka	Lēkhana
Lauha (Iron)	Looks like gum of Guggulu	tikta, lavaņa	śīta	kațu	Tridoșaghna	Rasāyana, Vṛshya

All these types of Śilājit have the smell of cow's urine and are useful in all types of therapies. However, for rejuvenation therapy, the variety derived from the stone containing iron is considered more useful.

Dosage

Dosage of Śilājit according to Caraka is of three types i.e. Uttama (Best), Madhyama (medium) and Avara (inferior). In Uttama type the quantity is one palā (4 tolā) for seven weeks. In Madhyama type ½ palā (2 tolā) for 3 weeks and Avarā type 1 karśa (1 tola) for one week.

Specific action of Silājit

Chēdana karma (BP, A.S, SN), Vṛṣya (P. Sharma), Balyā (R.T), Lēkhaṇa (Śāraṅgadhara, P.Sharma), Yogavāhi (BP, RJN); Rasāyana (RN, RSS).

Therapeutic uses:

Śilājit alleviates all the *Tridōṣā*. It confers Longevity and Happiness. It prevents ageing and diseases. It is an excellent drug for producing sturdiness of the body. It also promotes *mēdha* (intellect) and *smṛti* (memory).^{28,29}

Cardiovascular: Hṛdroga, Hṛtśūla.

Dermatological: Kustha.

Gastrointestinal: Āmadosa, Agnimāndya, Udara, Arśas, Krmi, Jvara, Chardi.

Neurology, psychiatry: Kampa, Apaśmāra, Unmāda. Respiratory: Rājayakṣma, Uraḥkṣata

Urinary tract system

(kidney, ureter, bladder): Pramēha, Madhumēha, Aśmarī, Śarkarā and Mūtrakṛchra.

Miscellaneous: Plīha, Sthaulya, Śopha, Gulma, Vātarakta.

Though Samhitā emphasized on the Rasāyana property of Śilājit, later works on the subject revealed its effects on various diseases like Kuṣṭha (skin diseases), Udara (ascites), Jvara (fever), Chardi (anorexia), Rājayakṣmā (tuberculosis) etc., The Ayurvedic practitioners are extensively using Śilājit for the treatment of Alzheimer's disease, Parkinson's disease and Benign Prostrate Hypertrophy etc.

Recent Research works support its analgesic activity, anti-alzheimer, anti-inflammatory activity, anti-ulcerogenic activity, anxiolytic activity, morphine-tolerance, nootropic activity and nutritive tonic activity.³⁰

Pathya

Milk, Butter milk, meat soup, vegetable soup and water are wholesome during the intake of $\dot{Sil\bar{a}jit}$ and further it is suggested to continue wholesome food for double the period of intake of $\dot{Sil\bar{a}jit}$ to get better results.³¹

Apathya

Kuluttha (horse gram), Vidāhi āhāra (diet which causes burning sensation in the body), Guru āhāra (diet which are heavy for digestion), Heavy exercise and exposure to wind and sun light should be avoided.³²

Conclusion

- 1. Historical background of Śilājit enlightens the origin, synonyms and therapeutic importance.
- 2. By comparison with classical and latest research studies it can be concluded that the origin of *Śilājit* is herbo-mineral.
- 3. The different processes of Śōdhana and Māraṇa explained for Śilājit enumerates the enriched ancient technology of mineral processing.
- 4. Its chemical composition and scientific validations authenticates the original product identification and further therapeutic validations.
- The indications of Śilājit in various ailments, explains its therapeutic importance among other metals and minerals.

Ancient *Sarinhitā* emphasized *Rasāyana* actions of *Śilājit*, but the later works (*Rasa kāla*) on the subject revealed its effects on various diseases. Present study as a whole accentuates the necessity of reviewing the literature, for further continuous growth in the field of awareness, utility and progress of the study of *Śilājit*.

Abbreviations

Carakasamhitā Cikitsāsthāna - Ca.Sa.Ci.; Suśruta samhitā cikitsāsthāna - Su.Sa.Ci.; Aṣṭāṅga Hṛdaya Cikitsāsthana- A.H.Ci., Uttara Tantra- U.T., Cakra Datta- C. D.; Rasa Ratna Samuccaya- R.R.S., Rasa Taraṅgiṇ- R.T., Rasēndra Sāra Saṅgraha- R.S.S., Bṁhat Rasa Rāja Sundara- B.R.R.S., Rasa Paddhati- R.P., Rasēndra Cūḍāmaṇi- R.Cd., Rasēndra Cintāmaṇi-R.C., Rasārṇava-Rv., Rasa jala nidhi- R.J.N., Āyurvēda Prakāśa- A.P., ānandakanda- Ak., śāraṅgadhara saṁhitā Madhyama khaṇḍa- S.Md.K., Basavarāṇyam- Ba.

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सारांश

शिलाजित का समीक्षात्मक पुनखलोकन

सी. मुरली कृष्णा, बी. श्रीनिवासुलु एवं डी. नागमणि

रसशास्त्र आयुर्वेदीय भेषजशास्त्र की एक महत्त्वपूर्ण शाखा है। इस शास्त्र में धातु, खिनज एवं रत्नों की शुद्धि तथा उनका प्रयोग बताया गया है। धातु और खिनज स्वास्थ्य संरक्षण, व्याधिप्रतिरोध एवं वार्द्धक्यिनवारण (रसायन) में अत्यन्त उपयोगी होते हैं परन्तु इन सभी में शिलाजित का मुख्य स्थान है। आयुर्वेद में शिलाजित को एक आश्चर्यजनक औषध के रूप में माना गया है। प्रागैतिहासिक काल से ही शिलाजित का प्रयोग होने के प्रमाण हैं। हिन्दू नागरिकता में भी इसका औषधि के रूप में प्रयोग हुआ है। शिलाजित को परम्परागत रूप से सर्वरोगनाशक बताया गया है तथा यह मांसपेशियों, अस्थियों और नस—नाडियों के रोगों में बहुतायात से प्रयोग होता है। यह वृक्क के लिए अत्यधिक लाभदायक है तथा शारीरिक—मानसिक शिक एवं मैथुनशिक को बढ़ाने वाला बताया गया है। शिलाजित मानव जाति द्वारा लम्बे समय से प्रयोग में लिया जाने वाला तत्त्व है तथा भविष्य में होने वाले अनुसन्धानों के लिये एक महत्त्वपूर्ण विषय भी है। प्रस्तुत लेख में शिलाजित से सम्बन्धित सभी तथ्यों को प्राचीन एवं आधुनिक साहित्य से प्रस्तुत करने का प्रयास किया गया है।