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"JATI (Jasminum officinale Linn.) AN AYURVEDIC MEDICINE: A CLASSICAL AND CONTEMPORARY REVIEW"

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Abstract -

"Jati" (*Jasminum officinale Linn*.) belongs to the Oleaceae family one of the herb mentioned in Ayurveda, it is widely cultivated throughout india for its aromatic flowers. Various synonyms given to Jati according to their swarup and therapeutic properties. Various Acharyas explains Jati in different categories, Jati is perennial climbing shrub. Due to its medicinal properties has been used for therapeutic purpose since centuries, chemical constituents mainly present in Jati such as Essential Oil, Flavonoids, Alkaloids, Tannins which are responsible for its thereupatic actions. it is used as Vrana shodhan, Ropan, Varnya, Kushtaghna, Kandughna

,Anti inflammatory ,Anti spasmodic , Antiseptic, Anti-oxidant.

Key Words – Jati , *Jasminum officinale Linn*., Aromatic flowers, Therapeutic uses , Pharmacological action.

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Introduction

Ayurveda is ancient science and complete guide of healthy living, "Jati" (Jasminum officinale Linn.) is one of the herb mentioned in Ayurveda, it is widely cultivated for its aromatic flowers, it's aroma is renowned in perfumery. In Ayurveda, it is known as "Mallika" or "Jati" Due to its medicine koal properties like Anti-inflammatory, Anti microbial, Anti spasmodic, wound healing, has been used for medicinal purpose since centuries, various parts of the plant like leaves, flowers, and roots are used. In Samhita Jati is described as flower of god. It is perennial climbing shrub with white flower. It is also cultivated in various parts of India.

Jati is member of oleacea family (olive family), The Oleacea (olive family) is a family of dicotyledonous flowering plants, features of oleacea family are mostly woody plants: trees, shrubs, or lianas (woody climbers), leaves opposite, simple or pinnately compound, stipulate.

Inflorescence- inflorescences determinate, terminal or axillary. Flowers bisexual or sometimes unisexual.¹

Taxonomical/Scientific Classification:2

Kingdom: Plantae-Plants

Subkingdom: Tracheobionts- Vascular

plants

Division: Magnoliophyta- Flowering

plants

Class:Magnoliopsida- Dicotyledons

Order: Scrophulariales

Family: Oleaceae- Olive family

Genus: Jasminum

Species: officinale linn

Vernacular names³

Table 1

Latin name: Jasminum officinale linn.

Sanskrit	Malati
Assam	Yasmeen
Bengal	Chamelee
English	Jasmine
Gujarati	Chamelee
Hindi	Chamelee
Kannada	Jati Maltiga
Marathi	Chamelee
Tamil	Pichi, Jatimalli
Urdu	Chameli, Yasmeen

Synonyms⁴

Table 2

Jati , Sumana	Pleasing the mind
Chetika	Enlightening the
	consciousness
Hridyagandha	Beautiful smell
Saumansayani	Pleasing the mind

Rasapanchak

Rasa- Tikta, Kashaya Vipaka- Katu

Virya- Ushna

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Guna- Laghu, Snigdha, Mrudu Dosakarma – Tridoshahara

Dosage – Churna – 1-3 gm,

Kwatha - 50-100 ml,

Jatyadi Tail - As per requirement, enough to cover the affected area.

Kalpa – Jatyadi tail, Jatyadi Ghruta, Jatyadi varti4, Vasantkusumakar Rasa.³

Vedic kala -

Direct identification of Jati in Vedas is limited, but inference-based references exist.

I. Atharvayeda -

Mentions sugandhi dravya (fragrant substances), often used in rituals and healing and protection, possibly including Jati or similar scented herbs.⁵

II. Yajurveda –

Uses gandha-dravya (aromatic substances) in descriptions of Yajna rituals (homa and upacharas), though not naming jasmine directly. The term "Pushpa" (flower) is frequently mentioned in a spiritual context and some interpretations by commentators align this with known fragrant flowers such as Jati.6

Valmiki Ramayana –

In the Ramayana, the forests of *Chitrakoot* (*Kamadgiri*) are described as being rich in diverse flora, the species found in Chitrakoot (*Kamadgiri*) forests includes ornamental plant Jasminum officinale (commonly referred to as *Champa* or *Vasanti*), known for its fragrant flowers and aesthetic value.⁷

Classical Sanskrit Poetry -

Jati is mentioned in *kalidasa*'s poetry –

I. *Kalidasa's Ritusamhara (* Description of Seasons)-

Kalidasa describes how fresh buds of *juhi*, jasmine, *maulashri* and *kadamba* were used to weave garlands by the rainy season for its beloved.

Kalidasa describes young women adorned with garlands of fragrant flowers like *Jati*, *Mallika*, and *Campaka*, enhancing the beauty of love in spring.⁸

II. Kalidasa's Meghaduta-

In this lyrical poem, *Kalidasa* refers to Jati flowers as part of the natural beauty that the *yaksha* asks the cloud to describe to his beloved.⁹

Amaruśataka

Jati is used in erotic metaphors-e.g., garlands offered in love, or the soft touch of its blossoms symbolizing the beloved.10

Classical categories

- Charak Samhita Kushthaghna. 11
- Bhavprakash Nighantu –

Pushpavarga12

- KaiyadevNighantu Aushadhi Varga13
- Shaligramnighantu –
 Pushpavarga¹⁴
- Raj Nighantu- Karviradi Varga¹⁵
- Dhanvantari Nighantu Amaradipanchamo varga¹⁶

Distribution -

• A large scrambling or twining shrub, considered to be a native of north

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western himalayas, widely grown in median crescent-shaped. small accessory gardens throughout india. bundle present in each wing. The plants are cultivated on a large Midrib - shows similar structure as rachis: scale in a few areas in U.P, for example in 3-5 layers of collenchymatous cells Ghazipur, Farrukhabad, Ballia and towards lower surfaceLamina - s; pericycle Jaunpur.17 present in the form of non-lignified fiber groups, vascular bundle single and Morphologycrescent-shaped. Figure :1- Jati plant (Jasminum officinale Lamina – shows dorsiventral structure. Linn.) epidermis single layered on either side, A. Macroscopic covered by a thick striated cuticle; hairs as in rachis, palisade 1-2 layered; spongy П Leaf parenchyma 4-6 layers; stomata Leaf single or in groups of 2-7 leaflets, anomocytic only in lower surface.³ upto 7.5 cm long and upto 2.5 cm broad; Powder Microscopy – imparipinnately compound; terminal leaflet larger; ovate or lanceolate, acumi-Figure- 2- Powder microscopy of Jatipatra nate: lateral leaflets shorter, acute, sessile (Jasminum officinale Linn.): Featuresor shortly petiolate; brownish-green; taste, Sclerides, Trachids, Calcium oxalate bitter.³ crystals. П Inflorescence Yellowish-green; shows palisade and spongy parenchyma, unicellular hairs, Inflorescence terminal with few-flowered fibers and vessels with spiral thickening, (at times single-flowered) cymes, shorter polygonal epidermal cells and anomocytic than leaves. stomata in surface view.3 Flowers - Flowers white with 4-5 **Types** lobes, fragrant. There are two varieties based on the flower Fruit - Fruit elliptic globose, black color when ripe.17 B. Microscopic: Jati (with white flower) – П Leaf Jasminum officinale Linn. Rachis - Rachis shows more or less convex II. Svarnajati (with yellow flower) – outline with two lateral wings: epidermis Jasminum humile Linn.4 single layered covered by thick cuticle; hairs mostly unicellular with pointed apex, Figure 3 – *Jati* (Jasminum officinale glandular rarely found only on the upper Linn.)¹⁸ surface; collenchyma 2 -5 layered; Figure 4- Svarnajati (Jasminum humile pericycle represented by slightly lignified L..)19 small fibre groups; vascular bundles three,

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Chemical composition –

Resin, Salicylic Acid, Alkaloid (Jasminine) and Essential Oil.3

a. Leaves -

Presence of high amount of alkaloids, coumarins, flavonoids and tannins, while terpenoids, glycosides and saponins were also present but in lesser extent.²⁰

b. Flower –

Alkaloids, Saponins, Tannins, Resin, Flavonoids, Terpenoid in minor quantity.21

Medicinal Uses in Ayurveda Karma –

Vrana shodhan , Ropan ,Varnya, Vajikar, Vedanasthapana, Raktaprasadan ,Aartavajanan, Saumnasyajanan, Kushtaghna , Kandughna Vishaghna, Raktaparasadan ,Aartavjanan.⁴

Rogaghnata –

Mukhapak ,Vrana , Netrarog , Streerog , Karnashula ,Karnapuya, Dantashula , Dantadaurbalya , Shirashula , Kandu , Kushta ,Mutraghat , Vatavikar, Manasik Daurbalya , Bhrama , Murchha.⁴

Therapeutic uses –

- Crushing leaves under the teeth and chewing them make teeth and gums firm. Gargling with its decoction in *mukhapaka* is useful.
- *Parisheka* of the root decoction is useful in shirahshools and other types of pain and aches.
- *Pushpasiddha taila* should be massaged in *manodaurbalya*, *bhrama*, *and murchha*.

- A paste of the *pushpakalka* or the bark should be applied in *Kushtha*.
- Decoction of the leaf or the root should be used for *Vranashodhan and ropana*.
- *Pushpasvarasa* should be instilled in eye in eye diseases.
- Pattrasiddha taila be instilled as ear drops in pooyakarna and karnashoola.
- Internally Useful in *udavarta* and *anaha* being *snigdha*.
- Quatha is also useful in raktadushtijanya diseases being raktaprasadana.
- Anulomana Indicated in mutrakrichha being mutarajanana.
- Moola useful in klaibya and anartava being vajikarana and artavajanana and also in kushtha and vishabadha
- In *Rajorodh* (Amenorrhea) Paste of leaves and flowers is applied in the abdominal area.²²

Pharmacological properties

- 1. Antioxidant activity
- ☐ Leaves and flowers contain flavonoids and phenolic compounds contributing in Antioxidant activity, Protect cells from oxidative stress.²³
- 2. Anti-inflammatory activity
- ☐ Ethanol and methanol extracts of leaves/flowers reduce inflammation.²⁴
- 3. Antimicrobial activity

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☐ Active against Gram-positive and	Conclusion
Gram-negative bacteria.	This article on Jati (Jasminum officinale
Phytochemicals: Essential oils, terpenoids, flavonoids. ²⁵	Linn.) reveals its long-standing use in Ayurvedic medicine. In Ayurvedic
4. Antispasmodic & Muscle Relaxant	literature, Jati is praised for its fragrance,
Research supports smooth muscle relaxation, possibly due to alkaloids and essential oils. Essential oil exhibits significant spasmolytic and vasodilator effects. 26 Antidepressant & Anxiolytic Jasmine aroma stimulates the central nervous system, enhances mood, reduces anxiety and stress and can help reduce depressive symptoms. 27 The aroma of Jasminum officinale has been widely recognized in aromatherapy for its significant psychophysiological effects. Inhalation of jasmine essential oil is associated with mood enhancement, reduction in anxiety, and increased feelings of well-being due to its influence on the limbic system and neurotransmitter activity. It exhibits mild sedative properties, promoting restful sleep without inducing lethargy. 28	wound-healing, anti- inflammatory, and antiseptic properties and is frequently used in formulations for skin disorders, oral hygiene, and gynaecological care. Several phytochemicals like flavonoids and essential oils have been identified, supporting its antimicrobial and anti-inflammatory effects. Modern pharmacological studies further validate its antioxidant, analgesic, antispasmodic and anxiolytic actions, supporting its traditional uses and indicating potential for new applications in phytomedicine. The plant's ability to promote emotional well-being and physical health underscores its devastatingly powerful medicinal utility, making Jati a valuable drug in the formulation of herbal remedies and essential oil therapies. However, more clinical trials and toxicological studies are required to establish standardized dosage and safety profiles and explore new therapeutic potentials. Thus, Jati emerges as a plant of
 □ Research also indicates that jasmine oil can improve alertness, reaction time, and energy levels following inhalation.²⁹ 6. Aphrodisiacs and Cardiotonic □ Jasmine aroma has demonstrated 	multifaceted importance both in ancient healing systems and modern phytotherapeutic exploration. Continued research and clinical validation will help in optimizing its applications for holistic and integrative medicine.
aphrodisiac effects, likely due to its stimulatory impact on brain activity, and has been traditionally used in Ayurvedic medicine for its <i>vrishy</i> a (aphrodisiac) and <i>hridya</i> (cardiotonic) qualities. ³⁰	References – 1) Judd, W. S., Campbell, C. S., Kellogg, E. A., Stevens, P. F., & Donoghue, M. J. Plant systematics: A phylogenetic

IJMHS; Vol. XI, Issue: II, APR-JUNE 2025

- approach 4th Edition.Sinauer Associates,2015.
- 2) Sharma PC, Yelne MB, Dennis TJ. Database on Medicinal Plants Used in Ayurveda. Vol. 3. New Delhi: Central Council for Research in Ayurveda and Siddha (CCRAS), Dept. of AYUSH, Ministry of Health & Family Welfare, Govt. of India; 2005. p. 274- 278.
- 3) Government of india ministry of health and family welfare, department of indian systems of medicine and homeopathy, The ayurvedic pharmacopoeia of india, delhi, the controller of publications, reprint 2001, edition 1st, part-1, volume-3, page no.-71-72.
- 4) Professor P V Sharma, dravyaguna vigyan vol-2, varanasi, published by choukhambha bharati academy, reprint 2017, adhyay- 2, page no 178-180.
- 5) Sharma PV. Dravyaguna Vigyan. Vol.1. 1st ed. Varanasi: Chaukhambha Bharati Academy; 2006. p. 29-30.
- 6) Sharma PV. Dravyaguna Vijnana (Vol. 2). 1st ed. Varanasi: Chaukhambha Bharati Academy; 2004. Reprint 2007. p. 810–811.
- 7) Sikarwa<mark>r RLS. Plants of Shrimad Valmiki Ramayana. J Indian Bot Soc. 2024;104(4):187–199. doi:10.61289/jibs2024.08.30.306.</mark>
- 8) Yeshpal, Chopra SS. An Ecocritical Reading of Kalidasa's Ritusamhara. Int J Engl Lang Lit Humanit (IJELLH). [Internet]. Centre for Comparative Literature, Central University of Punjab, Bathinda; [cited 2025 Jul 20]; Available from: https://ijellh.com

- 9) Sikarwar RLS. Plants of the Kalidasa's Meghaduta. J Indian Bot Soc. 2024;104(2):1–6. doi:10.61289/jibs2024.04.10.1071. 10) Anonymous. Romantic Moments in Poetry [Internet]. Scribd; [cited 2025 Jul . Availablefrom:https://www.scribd.com/document/48776315/RMin-Poetry
- 11) Shrimad Agnivesha, Charaka,
 Dridhabala. Charaka Samhita Shri
 Chakrapanidatta Virachita Ayurveda
 Deepika Vyakhya Samvalita Vidyotini
 with Hindi commentary. Varanasi:
 Choukhambha Sanskritik Academy;
 Sutrasthana, Adhyaya 4, shloka 13. p.62.
- 12) Dr krushnachandra chunekar, dr gangasahay pandey edited, shrimadbhavmishrapranit bhavprakash nighantu savimarsha hindi commentary, varanasi, published bychoukhambha bharati academy, Reprint -2020, pushpavarga, shlok-27-28, page no - 122.
- 13) Acharya priyavat sharma, edited by dr guruprasad sharma, Kaiyyadeva nighantu pathypathyavibodhak, varanasi, published by choukhambha orientalia, page no 130.
- 14) Vaishya S. Shaligram Nighantu Bhushanam Arthaat Brihat Trighatuka Karnaarthiti Samashtam Bhagah 7–8. Mumbai: Khemraj Shrikrishnadas Prakashan; 2003. p. 364.
- 15) Dr indradev tripathi introduction by acharya vishwanath dvivedi, Raj Nighantu of Acharya Pandit Narhari edited with Dravyaguna Prakashika Hindi commentary, Varanasi, published by Choukhambha Krishnadas Academy, Karviradivarga, Shlok- 76, Page No- 312.

IJMHS; Vol. XI, Issue: II, APR-JUNE 2025

- 16) Acharya Priyavat Sharma, Dr Guruprasad Sharma edited, Dhanvantari Nighantu, Varanasi, published by Choukhambha Orientalia, Amra Panchamo Varga, Shlok- 126-127, Page No- 235.
- 17) Council of Scientific & Industrial Research. The Wealth of India: A dictionary of Indian raw materials and industrial products. Raw materials. Vol. V: H–K. New Delhi: National Institute of Science Communication; 2001. p. 285,284.
- 18) Shukla RR. Jasminum Officinale Linn – Ayurvedic Approach. Int J Ayurvedic Herb Med. 2013;3(1):1114– 1119. Figure 1.
- 19) Yellow House Heritage Perennials. Jasminum humile "Revolution" (Italian Bush Jasmine) [Internet]. Port Macquarie (NSW): Yellow House Heritage Perennials; [cited 2025 Jul 17]. Available from:https://www.yellowhouseheritageper ennials.com.au/product/jasminum-humile-revolution-italian-bush-jasmine/**
- 20) Dubey P, Tiwari A, Gupta SK and Watal G. Phytochemical and biochemical studies of Jasminum officinale leaves. International Journal of Pharmaceutical Sciences and Research 2016; 7[6]: 2632-2640.
- 21) Hussain M, Bakhsh H, Abdul Majeed A, Abdul Mujeeb KIA and Farooq U. Comparative in vitro study of antimicrobial activities of flower and whole plant of Jasminum officinale against some human pathogenic microbes. Journal of Pharmacy and Alternative Medicine 2013; 2[4]: 33-44.

- 22) Deshpande AP, Ranade S. Dravyaguna Vijnana (Part I and II). 1st ed. October 2004; reprint December 2007. Pune: Anmol Prakashan; p. 810–811.
- 23) Charoenying P, Laosinwattana C, Chotsaeng N. Antioxidant and antibacterial activities of Jasminum officinale L. f. var. grandiflorum (L.) Kob. leaf extracts. Curr Appl Sci Technol. 2024 Apr;24(2).
- 24) Ye L, Han ZZ, Zhang CG, Ye Z, Wu LL, Xu H. Four new sesquiterpenoids with anti- inflammatory activity from the stems of Jasminum officinale. Fitoterapia. 2019;135:22–6.
- 25) Al-Khazraji SM. Evaluation of antibacterial activity of Jasminum officinale. IOSR J Pharm Biol Sci. 2015 Jan-Feb;10(1):121-4.
- 26) Rasheed HM, Wahid F, Qayyum R, Shah AJ, Khan T. Chemical composition and pharmacological evaluation of essential oil from Jasminum officinale flowers for spasmolytic and vasodilator activities. Farmacia. 2020;68(4):681–6.
- 27) Santos-Longhurst A. Jasmine essential oil: Benefits and how to use it. Healthline [Internet]. 2024 Sep 27 [cited 2025 Jul 17]. Available from: https://www.healthline.com/health/jasmine-essential-oil
- 28) Sayorwan W, Ruangrungsi N, Piriyapunyaporn T, Hongratanaworakit T, Kotchabhakdi N, Siripornpanich V. Effects of inhaled jasmine oil on brain wave activity and emotions. Nat Prod Commun. 2012;7(8):1039–42.

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29) Haze S, Sakai K, Gozu Y. Effects of fragrance inhalation on sympathetic activity in normal adults. Jpn J Pharmacol. 2002;90(3):247–53.

30) Sharma PV. Dravyaguna Vigyan,

