

Pharmaceutico-therapeutic Activity of *Trailokya Vijaya Vati* -A Conceptual Review

Author: Kotresh B M¹

Co Authors: Ashok Kumar B N², Radhika Ranjana Geetesh P³, Sushmitha V S⁴ and Ravindra Angadi⁵

¹⁻⁵Dept of Rasashastra & Bhaishajya Kalpana, Sri Dharmasthala Manjunatheswara College of Ayurveda, Kuthpady, Udupi, KA, India

ABSTRACT

Ayurveda emphasizes the interconnectedness of the body, mind, and spirit, offering holistic solutions for overall well-being. It serves as a bridge between ancient wisdom and modern healthcare practices, preserving and promoting this invaluable heritage for future generations. Ayurvedic formulations primarily consist of herbs, minerals, poisons and natural substances, making them safer and more sustainable choices for individuals seeking healthcare solutions. In an era where the prevalence of chronic diseases is increasing, Ayurvedic formulations provide a comprehensive approach that addresses the root cause of ailments rather than just managing symptoms. *Trailokya Vijaya Vati* is an Ayurvedic formulation revered for its therapeutic properties and historical significance in traditional Indian medicine. Its name, "Trailokya," signifies its efficacy in addressing ailments of the mind, body, and spirit, while "Vijaya Vati" denotes its victorious nature in conquering diseases. This formulation embodies a harmonious blend of potent herbs meticulously selected from Ayurvedic texts to promote holistic wellness and restore balance within the body. The therapeutic importance of *Trailokya vijaya vati*, ingredients along with collection, sodhana (purification), general method of preparation, dosage, anupana, mode of action, special instructions etc. are dealt in detail.

Key Words *Trailokya vijaya vati, Vijaya, Vamshalochana, Cannabinoids, Endocannabinoid system*

Received 23rd May 2024 Accepted 14th July 2024 Published 10th September 2024

INTRODUCTION

Aushadha refers to a medication or substance that can be used to treat diseases and prevent individuals from getting diseases. It can be used as a single medication or in combination. *Aushadha yoga* is used to restore health or it gives fruitful results as like that of nectar if utilized properly, if used improperly, meanwhile, it turns into poisonous¹. Effectively managing a

disease requires correct identification, dosage and time of administration of *Aushadha*. Comprehending the features and action mechanism of an *aushadha* is necessary for choosing the appropriate one to prevent ill effects of the drug. It is very much necessary to know that the *aushadha* are of *prakruthi*, age, gender, location & season specific. Some of the Ayurvedic classics and texts in medieval period

REVIEW ARTICLE

have classified all the poisons into two categories as *Mahavisha* and *Upavisha* based on their toxicity and potency². *Upavisha* (semi-poisonous drugs) are the group of drugs which were less toxic in nature but produce certain toxic symptoms on consumption or administration. These compounds are hazardous, but following appropriate purification methods, they are used with caution in Ayurvedic formulations for possible medicinal benefits. Featuring *Vijaya* (cannabis) one among *Upavisha* as its main constituent, *Trilokya vijaya vati* is one of the most effective traditional remedies in this category. Here is an effort to compile all the scattered materials from different texts and discussed with its therapeutic importance.

AIM

To examine and gather all of the information that is currently accessible about *Trailokya Vijaya vati*, including its composition, method of preparation, dosage, indications, warnings, specific guidelines, and the contributions of different literature pertaining to this specific formulation.

MATERIALS & METHODS

The references for *Trailokya Vijaya vati* were gathered from a variety of books, published works in several journals, and databases such as Pubmed Data base of Indian medicinal plants and Google Scholar. Various published works that dealt with *Vijaya* and *Vamshalochana* were

analysed and reviewed. Information that was relevant to the search were retained, while data that did not meet the search criteria was removed.

RESULTS

VIJAYA:

Vijaya is referred to as ‘Cannabis’. Texts pertaining to *Ayurveda* in general and medicinal plants in particular methodically documented the part used, pharmacological properties, *Shodana* (processing) procedures, mode of actions, indications of *Vijaya*. The Ayurvedic writings from the Middle Ages mention *Vijaya's* therapeutic properties³.

Ayurveda advocates the judicious use of *Vijaya* after *Shodana*. It was observed that the processed drug is used as a single or in combination of other drugs. *Vijaya* has been described under *Upavisha Varga* (a group of sub poisonous plants) by certain text related to *Rasa Shastra*, it's categorization under *Upavisha Varga* may be due to its reported action on CNS in overuse. However, Various *Nighantu's* of *Ayurveda* details *Vijaya* under different plant group enlisted in **Table 1**.

Table 1 *Vijaya* as mentioned in various *Nighantu's*

Nighantu	Varga
<i>Dhanvantari Nighantu</i> ⁴	<i>Guduchyadi varga</i>
<i>Shodala Nighantu</i> ⁵	<i>Lakshmanadi varga</i>
<i>Bhavaprakasha Nighantu</i> ⁶	<i>Haritakyadi varga</i>
<i>Madanaphala Nighantu</i> ⁷	<i>Haritakyadi varga</i>
<i>Saligrama Nighantu</i> ⁸	<i>Astavarga</i>
<i>Priya Nighantu</i> ⁹	<i>Shatapushpadi varga</i>

Synonyms of *Vijaya*¹⁰⁻¹¹:

Matulani, Jaya, Bhang, Madini, *Vijaya*, Chapala, Virapatra, Siddhi, Indraashana, Ajeya, Ananda
September 10th 2024 Volume 21, Issue 2 **Page 74**

REVIEW ARTICLE

Sanjna, Bhangi, Bhang, Matika, Matuli,
Tandrakarini, Bahuvadini, Bhangi, Bhang.

Vernacular names of vijaya:

Sanskrit	: Bhang, Madini
Hindi	: Bhaang, Bhang
English	: Indian Hemp
Kannada	: Bhangigida, Ganjagida
Gujarathi	: Bhang
Marathi	: Bhang, Ganja
Assami	: Bhan, Bhang
Bengali	: Siddi, Bhang
Malyalam	: Kanchava
Tamil	: Ganja
Telugu	: Ganjayi

Taxonomical description¹²:

Kingdom: Plantae
Sub kingdom: Tracheobionta (Vascular plant)
Super division: Spermatophyta (Seed plant)
Division: Magnoliophyta (Flowering plant)
Class : Magnoliopsida (Dicotyledonous plants)
Subclass: Hamamelididae
Order: Rosales
Family: Cannabaceae (Hemp family)
Genus: Cannabis
Species: *Cannabis Sativa L.*

Habitat & Distribution: Found wild on the western Himalaya & Kashmir cultivated all over the India¹³.

Botanical Description: *Vijaya* is a dioecious herb with numerous leaves resembling *Trishul* it has a very specific strong order hence called *Ugra Gandhi*¹⁴. Cannabis is an annual dioecious flowering herb staminate (male) plants are usually taller but less robust than pistillate

(female) plants. Stems are green, erect, hollow and longitudinally grooved. They can grow up to 1-6m in height. The leaf arrangement on a plant varies from decussate at the lower branches to alternate at the terminal branches. Leaf stalks (petiole) are 2-7cm long with a narrow groove along the upper side. The leaf is palmate & consists of 3-9 linear-lanceolate leaflet blades of 3.15 × 0.2 × 1.7cm. The lower (abaxial) surface is pale green with scattered white to yellowish brown, resinous glands.

Shodhana of Vijaya leaves:

Shodhana is one of the unique concepts of *Ayurveda* where the possible toxic effects are passed through specific recommended process before clinical administration to reduce the toxic effect and make them therapeutically effective in prescribed *Dosha*. In various *Rasa Shastra* text, there are different methods of *Shodhana* are explained.

Method 1:

The leaves of *Vijaya* (cannabis) are tied in muslin cloth. It is washed again & again under running water until the greenish colour stops oozing out of cloth. After this, the leaves dried under shade, made into powder form and preserved in airtight container which will be used for the therapeutic purpose¹⁵.

Method 2:

The dry leaves are taken & washed in water & pressed with cotton cloth. Then it is subjected for drying under direct sunlight & later on fried with *Go gritha* (Cows clarified butter) these roasted leaves are to be used for therapeutic purpose¹⁶.

REVIEW ARTICLE

Method 3:

The dried *Vijaya* leaves are to be subjected for *nimajjana* (soaking) in water for approximately 2-3 hours and squeeze it. After getting it dried under sunlight, it is being fried in *Goghrita*¹⁷.

Method 4:

The *Vijaya* leaves are to be subjected for *Svedana* in decoction of *Babbula Tvak* (Bark of *Acacia arabica* Willd.:Mimosaceae) for 25-30min with moderate heat & then subjected to drying under direct sunlight. Further they are triturated with *Godugdha*, dried and used for therapeutic purpose¹⁷.

Properties of *Vijaya*¹⁷:

- *Rasa* : *Tikta Rasa*
- *Guna* : *Laghu Tikсна Gunas*
- *Virya* : *Usna Virya*
- *Vipaka* : *Katu Vipāka*
- *Doshaghnata* : *Pacifies Kapha and Vata Dosh, increases Pitta Dosh*
- *Karma* : *Dipana, Pacana, Ruchya, Madakari and Vyavayi action*. It has also been attributed with *Grahi, Medhya* and *Rasayana action*
- Therapeutic action of *Vijaya*: *Rasataranagini* have attributed more than 29 pharmacological properties/indications to *Vijaya* like: *Nidrāpradayini Swapna karaka* (Induce sleep), *Santana karaka* (improves reproductive capacity), *Amasaya Balaprada* (Provides strengths to gastrointestinal tract), *Mutrala* (Diuretic), *Pralapanasaka* (Relieves delirium).
- Indicated in disease conditions like *Prāmeḥa* (Urinary disorders), *Dhanusthambha*

(Titanic condition), *Antra Sula* (Gastric pain), *Vrkka Sula* (Renal Colic), *Sosha* (Emaciation), *Sula* (Colic). *Ajirna* (Dyspepsia), *Unmada* (Insanity), *Rakta sanyukta mutrata* (Hematuria), *Arsa* (Piles), *Jvara* (Fever), *Vrana* (Wound), *Nadi daurbalya* (Nervine debility), *Rajahsula* (Dysmenorrhea), *Yakṣma* (Tuberculosis), *Kasa* (Cough), *Amasayasula* (Intestinal pain), *Tamaka svasa* (Asthma), *Garbha Grha, Rakta Pradara* (Menorrhagia), *Ardhavabhedaka* (Migraine)¹⁷.

Chemical composition:

It is a complex plant with about 426 chemical entities, of which more than 60 are cannabinoid compounds¹⁸. The four major compounds are d-9-THC, CBD, d-8-THC and cannabinol, which have been most researched¹⁹.

VAMSHALOCHANA:

'*Vamsalochana*' is the siliceous concretion found in the hollow internodes of *Bambusa arundinacea* (Retz.) Willd. It is also known as 'Bamboo Manna' bamboo-manna or bamboo silica (because it is rich in silica). It is mainly composed of silicic acid with traces of iron, calcium, alum, alkalis, potash, alumina, iron peroxide and about 1% of organic matter. It is highly esteemed in the Indian medical tradition for its diverse medicinal qualities, such as aphrodisiac, demulcent, emmenagogic, expectorant, febrifugal and pectoral. It is largely used as a cooling tonic. It is used as single Ayurvedic drug and also in compounded formulations²⁰.

The hardness and stiffness of bamboo is due to the presence of intracellular silica in the fibre
September 10th 2024 Volume 21, Issue 2 Page 76

REVIEW ARTICLE

structure. It is a highly demanded substance, versatile described to be cold in nature²¹. Tabasheer owes its alternative name 'sugar of bamboo' due to the sweet taste of an organic residue²².

Various *Nighantu's* of *Ayurveda* details *Vamshalochana* under different plant group by keeping the drug under various *varga* as enlisted in **Table 2**.

Table 2 *Vamshalochana* as mentioned in various *Nighantu's*

<i>Nighantu</i>	<i>Varga</i>
<i>Dhanvantari Nighantu</i> ²³	<i>Karaveeradi varga</i>
<i>Shodala Nighantu</i> ²⁴	<i>Karaveeradi varga</i>
<i>Bhavaprakasha Nighantu</i> ²⁵	<i>Haritakyadi varga</i>
<i>Kaiyadeva Nighantu</i> ²⁶	<i>Oshadhi varga</i>
<i>Madanaphala Nighantu</i> ²⁷	<i>Abhayadi varga</i>
<i>Saligrama Nighantu</i> ⁸	<i>Astavarga</i>
<i>Rajavallabha Nighantu</i> ²⁸	<i>Maadhyanika pariccheda</i>
<i>Sarasvati Nighantu</i> ²⁹	<i>Mahavriksha Varga</i>

Synonyms of *Vamshalochana*³⁰:

Vamsharocana, Vamshi, Tugakshiri, Tuga, Shubha, Tvakkshiri, Vamshaja, Shubhra, Vamshakshiri and Vainavi.

Vernacular names of *Vamshalochana*:

Sanskrit: Vamsah, Venuh, Tvakkshira

Hindi: Bans, Banslochan, Kanta bans, Banskapur

English: Spiny bamboo, Thorny bamboo, Bamboo manna

Kannada: Bedru

Gujarathi: Wans

Assam: Bnah, Kata, Koto

Uttar Pradesh: Kanwas

Arabic: Qasab, Tabasheer

Tamil: Mungil

Telgu: Bonga, Veduru

Taxonomical description³¹:

Kingdom: Plantae

Sub kingdom: Tracheobionta (Vascular plant)

Super division: Spermatophyta - Seed plants

Division: Magnoliophyta (Flowering plant)

Class : Liliopsida

Subclass: Commiliniidae

Order: Cyperales

Family: Poaceae

Genus: Bambusa

Species: *Bambusa arundinacea* (Retz.) Willd

Habitat and Distribution: The *Bambusa arundinacea* (Retz.) Willd. is said to originate from tropical Asia but is now grown in tropical regions globally, particularly prevalent in Myanmar and Sri Lanka. Its presence spans across India, notably thriving in the mountainous forests of western and southern regions, flourishing in altitudes reaching up to 2100 meters³². It is cultivated in many places in Bengal, North west India and on the hills of Andhra Pradesh, Tamil Nadu and Karnataka²³.

Botanical Description

It is a tall woody bamboo with numerous and thorny stems, with height upto 30-40 meters, curving at the top³³. Rhizomes of *Bamboosa arundinaceae* is knotty, culms dense, short, stout, reaching 24-30 m in height and 15-17 cm in diameter, green, hallow, purplish green when young, turning golden yellow with prominent nodes and long internodes up to 45 cm, lower ones rooting often sub angular, flexuous, almost naked shoots armed at nodes with 2-3 curved spines³⁴.

REVIEW ARTICLE

Collection:

The siliceous concretion is present in the culms of female bamboo. It occurs in fragments of masses, about an inch thick and are formed from the residue of the watery liquid occasionally found in the hollow internodes. The presence is generally detected by a rattling noise on shaking the culms. Physically, it may be chalky, translucent or transparent, tasteless, usually of the colour of pumice²³.

Description about part:

Vamshalochana consists of irregularly shaped opaque/chalky, translucent or transparent fragments, it is tasteless and of white or bluish opalescent colour usually of colour of pumice, slightly sticky to the tongue, the larger pieces are about 2.5 cm thick in diameter, concavo-convex, and have evidently derived this from the internodes of bamboo in which the deposit has collected³⁵.

- *Rasa* : *Madhura rasa*³⁶, *Kashaya anurasa*³⁷
- *Guna* : *Ruksha, Laghu Guna*³⁷
- *Virya* : *Shita Virya*²⁶
- *Vipaka* : *Madhura Vipaka*³⁷
- *Doshagnata* : *Pitta-Rakta hara, Vata-Pitta hara, Kapha vardhaka, Vata pitta shamaka*³⁷
- *Karma*: *Jivaniya, Preenan, Trishnanigrahan, Balya, Dahaprashaman, Vajikarana, Trishna, Kasa-Swasa, Pandu-Kamalahar, Shosh-Kshayahar, Jwarahar*³⁸, *Vrushya, Bruhmana, Vranajith, Kushthjit, Chedana, Vasti shodhana,*

➤ Therapeutic uses: An effective aphrodisiac nourishes the body, enhancing its mass, purifies the urinary system, speeds up wound healing, proves beneficial in conditions of emaciation or undernutrition, and boosts bodily strength³⁹.

Chemical composition:

Vamshalochana Component Content Percentage (%) Silica 90.56% Potash 1.10% Peroxide of Iron 0.90% Alumina 0.40% Moisture 4.87%. Indian *Tabasheer* is primarily composed of 97% silicic acid, 2.9% water, with traces of potash and lime⁴⁰. The elemental composition of the *Tabasheer* sample was analyzed using X-ray fluorescence, revealing the presence of SiO₂, Al₂O₃, Fe₂O₃, CaO, MgO, TiO₂, K₂O, P₂O₅ and Si/Al²⁴.

Substitutes & Adulterants: It appears to be limited to the bamboo product. *Dhanvantari Nighantu* refers to it as "*Vamsakshiri smrta vamshya yavaja yavasambhava*"⁴⁰. Along with *Vamshakshiri*, the compiler has mentioned several varieties of *Kshiri*. Many researchers considered *Vamsharocana* as concretions from the bamboo and *Tavakshiri* as the starch derived from the rhizomes of *Curcuma angustifolia* Roxb., also used as a substitute for authentic arrowroot of *Maranta arundinacea* Linn⁴¹⁻⁴².

Tugakshiri is *Hima* (cold in potency), *Swadu* (sweet in taste), *Balya* (tonic), *Vrshya* (aphrodisiac) and *Brymhana* were the Ayurvedic properties of *Vamshalochana*. *Raktapitta*, anorexia, *asthma*, cough, leprosy, fever, anaemia, jaundice, hyper-thirst, burning sensation, wound, dysuria, emaciation⁴³⁻⁴⁵.

REVIEW ARTICLE

Tvakshiri or *Tugakshiri* is white in colour and used as substitute of *Vamshalochana*. It is prepared from the tubers of *Curcuma angustifolia*. Synthetic product is white, very shining, sticky to the tongue⁴⁶.

Method of preparation of *Trailokya vijaya vati*:

The reference of ratio & method of preparation is found in *Rasa Tarangini* & *Ayurveda Sara Sangraha*. Properly *shodhita Vijaya* taken and prepared *Ghana satwa* of it as per *Ghana Satwa Kalpana*⁴⁷. *Vamshalochana* is collected and made into fine powder (sieve no 85). Both ingredients of equal quantity are made into paste by adding water of sufficient quantity in *Khalwa yantra*. Triturated until the proper consistency of making pills. Pills prepared of uniform shape and size of 1 *ratti* dose⁴⁸. Then it is dried under shade & stored in air tight container. Later it is subjected to the evaluation of Parameters for Standardization of Vati to find out the perfectness & quality of the product.,

Matra: 1 *Ratti* Pill BD (Morning & Evening)⁴⁹

Anupana : *Madhu, go gritha, go dugdha, Takra* with *jeeraka*⁴⁹.

Patya: Cow Milk & Ghee, Buttermilk with *Jeera* & freshly prepared and easily digestible meals. Regular body workout as per body strength.

Apatya: Avoid alcohol, eating excessive spicy, cold, dry, reheated, fried & heavy to digest. Exposure to dry & hot environment, Late night dinner & improper sleep.

Guna & Upayoga:

➤ Due to its *Grahi guna* it acts as *Atisara hara* & even *atisara* of prolong cause. It

alleviates the severity of Symptoms of *Pralapa, Unmada. Reduce the Vrikka shula, Raja kashtajanya shula & Kasa vegas* in *Rajayakshma*⁴⁸.

➤ It specially & directly acts on *Vatavahini Nadi* due to its *Ashukari guna*. Therefore, it provides quick results in the ailments related to various types of *Shula*. If it is given with milk then its acts as *Vajikara* because of its *prabhava* on *Jananendriya & Shukravahini Sira*. Consuming it in small dose causes intoxication & also relives fatigue⁴⁹.

Mode of action:

➤ Cannabis sativa plant has a long history related to therapeutic and pharmacological use by humans. Despite having more than 400 chemical compounds, its two main constituents are cannabidiol (CBD) and tetrahydrocannabinol (THC) responsible for the main pharmacological actions⁵⁰.

➤ The advancement of research on *C. sativa* for medical purposes has resulted in the finding of the Endogenous Cannabinoid System, sometimes referred to as the Endocannabinoid System (ECS). The endocannabinoid system is a lipid signalling system that plays a regulatory function in the metabolism and physiology of many systems by producing protein and glycogen through anabolic actions. This system consists of exocannabinoids (D9-tetrahydrocannabinol, D-8-tetrahydrocannabinol, cannabidiol, and cannabinol) obtained from the plant and endocannabinoids (anandamide and 2-AG) generated from arachidonic acid (AA). Both

September 10th 2024 Volume 21, Issue 2 Page 79

REVIEW ARTICLE

systems function as CB1 and CB2 receptor ligands⁵¹.

➤ The “endocannabinoid system” in the human body has a role in homeostasis which is important due to its neuromodulator function. This system mediates its effect through at least two G-protein coupled cannabinoid receptors – CB₁ (regulates neurotransmission) and CB₂ (regulates immune and inflammatory pathways). CB₁ is activated by two known metabolites, anandamide (from Sanskrit word meaning “bliss”) and 2-arachidonoylglycerol (2-AG)⁵²⁻⁵³.

➤ The THC: CBD ratio (and their doses) in Cannabis is what is crucial to understanding the harm associated with its use. THC can elicit anxiety, induce psychosis, and produce cognitive impairment while CBD can mitigate this. Products containing Cannabis can have varying doses that give varying ratios of the two compounds and therefore differ in their therapeutic and addictive potential⁵⁴.

➤ The major functions of the ECS are associated with immune and neurological system modulation, which is involved in a variety of physiological processes, including learning, memory, sleep, appetite, and hormone release; in other words, the ECS is involved in everything from lipid metabolism and appetite to neuroprotection and neurogenesis⁵⁵.

The study was carried out to evaluate the analgesic effect of *Trailokya Vijaya Vati* in post-operative pain in patients undergoing *Kshara karma* using the pain scale, sleep parameters,

bleeding, postoperative recovery, safety and need for conventional analgesics. The study revealed that all patients tolerated the drug well. None of the patients experienced any adverse side effects during the study, indicating excellent safety & the rate of pain relief was maximal in the treatment group compared to the control group⁵⁶.

Special Instructions: The major problem with Cannabis lies in the several risks associated with its indiscriminate use, some of which include increased risk of stroke, affection of learning and memory, and mental illnesses including psychosis. Groups that are associated with the highest risks are teenagers, pregnant women, and people who may already be at risk of mental illness⁵⁷. Use of Cannabis during Pregnancy may increase adverse outcomes for women and their neonates. Cannabis products may also increase your risk of certain disorders, such as depression and schizophrenia. It’s mostly known for causing feelings of Euphoria, but Cannabis can also cause panic, fear or depression in some people.

The production and distribution of these drugs is under tight control and oversight of federal and state authorities based on the origin of the raw material (imported vs. locally grown), transport of the drug between states (needs the nod of individual state authorities), and storage of the drug before dispensation (controlled and overseen by local state FDA and police authorities)⁵⁸.

REVIEW ARTICLE

DISCUSSION

Total 02 references of *Trailokya Vijaya Vati* were compiled and found containing the same ingredients with same proportion. *Ayurveda sara sansraha & Rasa tarangini* both i.e. *Shuddha Vijaya & Vamshalochana*. *Vijaya* is an integral ingredient in *Trailokya Vijaya Vati*. *Vamshalochana* is the supportive ingredient which is having *Madhura rasa, Madhura vipaka & Shita virya*, Whereas, *Vijaya* is having *Tikta rasa, Ushna virya, Katu Vipaka*. By considering *Guna & Karma* of *Vamshalochana*, it often possesses qualities that counteract or balance out the effects of *Vijaya*, helping to mitigate potential side effects and enhance therapeutic efficacy. In both the references, ingredients are levigated with water as *Bhavana Dravya* for a specific time and converted into 1 *Ratti* sized *Vati*. The authors have quoted a 125mg dose of *Trailokya Vijaya Vati* which can be considered as a therapeutic dose for human being. *Madhu, go gritha* are mostly cited as a *Anupana* of *Trailokya Vijaya Vati*. It is mainly indicated in *Atisara, Unmada, Raja kashtajanya shula, Kasa, Rajayakshma & various types of Shula*. Because of its *Prabhava* it acts as *Vajikara* when it is administered with Milk. The human body's endocannabinoid system plays a crucial role in maintaining homeostasis, primarily through its neuromodulatory function. This system exerts its influence via a minimum of two G-protein coupled receptors: CB1, which regulates neurotransmission, and CB2, which oversees immune and inflammatory pathways.

CONCLUSION

Reviewing of *Rasashastra* classics reveal that *Trailokya Vijaya vati* is recommended in *Atisara, Unmada, Raja kashtajanya shula, Kasa, Rajayakshma & various types of Shula*. As observed the indications in classical texts, some indications based on its *Bhautika guna*, some are *Rasa* based, some are *Karma* based & some are purely *Prabhava*. Total 02 references of *Trailokya Vijaya vati* have been found with a same proportion of ingredients. *Trailokya Vijaya vati* Effective in Treating Chronic pain in various diseases condition, since it is Schedule E-1 drug. To be taken strictly under medical supervision. It seems to have a generally safe profile but come with certain risks, including the potential for euphoria, unsuitability during pregnancy, dizziness, as well as associations with depression and schizophrenia. Nonetheless, there is a necessity for further research into their safety.

REVIEW ARTICLE

REFERENCES

1. Satyapala, editor, (1st ed.). Commentary Vidyotini of Kashyap Samhita, Khila Sthana; Bsheshajyopakramaniya Adhyaya: Chapter 3, Verse 4. Varanasi: Chaukhamba Sanskrit Sansthan, 2015; 363
2. Angadi R, editor, Transcendence English commentary on Rasa Tarangini of Sadananda Sharma, Visopavisadi vijnaniya taranga: Chapter 24, Verse 163-164: Varanasi: Chaukhamba Surbharati Prakashan: 2015; pg.450
3. Dwarakanath C. Use of opium & Cannabis in the traditional systems of medicine in Indian Bulletin of Narcotics. 1965; 17:15-19)
4. Kamat SD, Studies on medicinal plants & drugs of Dhanvantari-Nighantu: Varanasi, Chaukhambha Sanskrit Pratisthan,2002; pg.46
5. Bhagel M S, Shodhala Nighantu of Acharya Shodala, Commentary by Pandey Gyanendra, Edited by Prof. Dvivedi. R. R, 1st edition: Varanasi, Chowkambha Krishnadas Academy, 2009, pg: 18/305
6. Bhavamishra. Bhavaprakasha Nighantu, Hindi Commentary by K.C. Chunekar. Revised ed. Varanasi: Chaukhumbha Visvabharati; 2010, pg:136
7. Shastry J L N, Madanapala Nighantu, Verse 333: Bombay: Chaukhambha ayurveda pratishthan,2010, pg:283
8. Shaligrama, Shaligram Nighantu. 1st ed., Khemraj Srikrishnadas Prakashan, Mumbai:2011;
9. Sharma PV, Priya nighantu. 1st ed.,Varanasi; Chaukhamba Surabharati Prakashan; 2006
10. Angadi R, editor, Transcendence English commentary on Rasa Tarangini of Sadananda Sharma, Visopavisadi vijnaniya taranga: Chapter 24, Verse 390: Varanasi: Chaukhamba Surbharati Prakashan: 2015; pg.473
11. Bhavamishra, Bhavaprakasha Nighantu, Hindi Commentary by K.C. Chunekar. Revised ed. Varanasi: Chaukhumbha Visvabharati; 2010, pg:136
12. *Cannabis sativa* L. in GBIF Secretariat (2023). GBIF Backbone Taxonomy. Checklist dataset <https://doi.org/10.15468/39omei> accessed via GBIF.org on 2024-03-23.
13. R Lucas D S, Dravyaguna vijnana study of Dravya Materia Medica, Vol-02; Varanasi: Chaukhambha Visvabharati; 2015, pg. 400
14. Chandrashekar, editor, Anandakandam vol-01; Ullasa 15, Verse-336: Srirangam; Sri Vilasam press;1952; pg 236
15. Ayurvedic Formulary of India: Part 2, Part B: Shodhana 1st ed. Department of Ayush, Government of India, Ministry of Health and Family Welfare, Department of Indian Systems if Medicine and Homeopathy The Controller of Publications Civil Lines Delhi. 2010:372
16. Mishra S, Rasa Prakasha Sudhakara of Acharya Yashodara, Adhyaya 13, Verse-07: Varanasi; Chaukhambha Orientalia; 1998; Pg.275
17. Angadi R, editor, Transcendence English commentary on Rasa Tarangini of Sadananda Sharma, Visopavisadi vijnaniya taranga: Chapter 24, Verse 393-397: Varanasi: Chaukhamba Surbharati Prakashan: 2015; pg.474

REVIEW ARTICLE

18. Dewey W. (1986) Cannabinoid pharmacology. *Pharmacol Rev* 38: 151–178
19. Pertwee R. (1997) Pharmacology of cannabinoid CB1 and CB2 receptors. *Pharmacol Ther* 74: 129– 180
20. R Anonymous, Medicinal Plants of India, Indian Council of Medical Research, New Delhi, 1985
21. Nadkarni KM. Indian Plants and Drugs. New Delhi: Asiatic Publishing House; 2010: 50.
22. Klinowski J, Chi-Feng Cheng, Jesu S Sanz, Josea M, Rojo Alan, Mackay et al. Structural Studies of Tabasheer, an opal of plant origin. *Philosophical Magazine*; 1998; 77(1): 201-216.
23. Kamat SD, Studies on medicinal plants & drugs of Dhanvantari-Nighantu: Varanasi, Chaukhambha Sanskrit Pratisthan, 2002; pg.364
24. Bhagel M S, Shodhala Nighantu of Acharya Shodala, Commentary by Pandey Gyanendra, Edited by Prof. Dvivedi. R. R, 1st edition: Varanasi, Chowkambha Krishnadas Academy, 2009, pg: 62/238.
25. Bhavamishra. Bhavaprakasha Nighantu, Hindi Commentary by K.C. Chunekar. Revised ed. Varanasi: Chaukhumbha Visvabharati; 2010, pg:56
26. Kaiyadeva, Kaiyadeva Nighantu, Pathyapattya vibodhaka of Sharma P V and Guruprasad S: Varanasi, Chowkambha Orientalia, 1979, pg: 696.
27. Shastry J L N, Madanapala Nighantu, Verse 333: Bombay: Chaukhambha ayurveda pratishthan, 2010, pg:342
28. Rājavallabha, Rājavallabha nighaṅṭu, Redacted by Nārāyaṇadāsa, http://localhost:4001/enighantu/rajavallabha_nighantu/?mod=read
29. Sarasvati nighaṅṭu, http://localhost:4001/enighantu/sarasvatini_g_hantu/?mod=read
30. Acharya Balkrishna, Prashant Katiyar, Shalini Singh, Rajesh Mishra, Vedpriya Arya. Vanshlochan Substitution and Adulteration: Discussions on the Controversy over its Original Source. *AYUSHDHARA*, 2023;10(4):89-99
31. Bambusa arundinacea. Available from [URL:https://plants.usda.gov/home/plantProfile?symbol=BAAR8](https://plants.usda.gov/home/plantProfile?symbol=BAAR8)
32. Khare CP. Indian Medicinal Plants. Delhi: Rajkamal Electronic Pres; 2007: 80- 81
33. Kaikini Aakruti A, Dhande Swati R, Kadam Vilasrao J. Overview of Indian Medicinal Tree: Bambusa Bambos Druce. *Int. Res. J. Pharm* 2013: 4(8)
34. Prajapati ND, Purohit SS, Sharma AK. A Hand Book of Medicinal Plants. 1st ed. Jodhpur: Agrobios; 2009: 82
35. R Dymock W, Warden C.J.H, Hooper D. *Pharmacographia indica- A History of the Principal Drugs of Vegetable Origin*. Vol. 3rd. New Delhi: Published by Srishti Book Distributors; 2005: 586-591.
36. Sharma PV, Sharma GP. Kaiyadeva-Nighantu. Reprint Edition. Varanasi (India): Chaukhambha Orientalia, 2013.
37. Bhavamishra. Bhavaprakasha Nighantu, Hindi Commentary by K.C. Chunekar. Revised **September 10th 2024** Volume 21, Issue 2 **Page 83**

REVIEW ARTICLE

- ed. Verse 116-117: Varanasi, Chaukhumbha Visvabharati; 2010, pg:56
38. Sharma P. V.: *Dravyaguna Vigyan*. Chaukhamba Bharati Academy, varanasi, 2001; I(II).
39. Jivani NP. Phytopharmacological properties of *Bambusa arundinacea* as a potential medicinal tree: An overview. *Journal of Applied Pharmaceutical Science*. 2011 Dec 30(Issue):27-31.
40. Kamat SD, *Studies on medicinal plants & drugs of Dhanvantari-Nighantu*: Varanasi, Chaukhambha Sanskrit Pratisthan, 2002; pg.150
41. Singh B. *Vanausadhi Darsika*. Varanasi (India): Chaukhamba Amarbharati Prakashan, 1977.
42. Sharma PV. *Dravyaguna Vigyan*. Vols. 1-5; Varanasi (India): Chaukhamba Bharati Academy, 1981.
43. Sharma PV, Sharma GP. *Kaiyadeva-Nighantu*. Reprint Edition. Varanasi (India): Chaukhambha Orientalia, 2013.
44. Paranjpe AS, Pendse GS, Bedekar VA. *Laghu-Nighantu*. Poona (India): Samarth Bharat Press, 1973.
45. Balkrishna A. *Chandra Nighantu*. Haridwar (India): Divya Prakashan, 2015
46. Chandra K, Chaudhari BG, Dhar BP et al, *Database on medicinal plants used in Ayurveda*. Vol 8. CCRAS, New Delhi, 2007, Tpg:560.
47. *Siddha yoga sangraha guduchi ghana/kutaja ghana* 111
48. Angadi R, editor, *Transcendence English commentary on Rasa Tarangini of Sadananda Sharma, Visopavisadi vijnaniya taranga*: Chapter 24, Verse 426-429: Varanasi: Chaukhamba Surbharati Prakashan: 2015; pg.477
49. Vaidyanath S, *Ayurveda Sara Sangraha, Gutika Vati Prakarana*: Alahabad; Century printers; 2010; pg 446
50. Silva DA, Pate DW, Clark RD, Davies NM, El-Kadi AO, Lobenberg R. Phyto- cannabinoid drug-drug interactions and their clinical implications. *Pharmacol Therapeut*. 2020;215:107621.
51. Benevenuto SGdM. Efeitos da fumaça da *Cannabis sativa* e de compostos Canabinoides: uma avaliação in vivo e in vitro . Universidade de Sao Paulo; 2020.
52. Howlett AC, Abood ME. CB1 and CB2 receptor pharmacology. *Adv Pharmacol*. 2017;80:169–206
53. Scherma M, Masia P, Satta V, Fratta W, Fadda P, Tanda G. Brain activity of anandamide: A rewarding bliss? *Acta Pharmacol Sin*. 2019;40:309–23
54. Madras BK. Tinkering with THC-to-CBD ratios in Marijuana. *Neuropsychopharmacology*. 2019;44: 215–6.
55. Stasiulewicz A, Znajdek K, Grudzien M, Pawinski T, Sulkowska JI. A guide to targeting the endocannabinoid system in drug design. *Int J Mol Sci*. 2020;21(8):2778.
56. Pooja K, Tushar W, Kunal K, (2022). Evaluation of analgesic effect of Tab *Trailokya Vijaya Vati* in post-operative pain in patients undergoing *Kshara karma* : An observational

REVIEW ARTICLE

study. *Journal of Pharmaceutical Negative Results*, vol 13(1)2022, 1405-1413.

Doi:10.47750/pnr.2022.13.501.167

57. Hoch E, Bonnet U, Thomasius R, Ganzer F, Havemann-Reinecke U, Preuss UW. Risks associated with the non-medicinal use of cannabis. *Dtsch Arztebl Int*. 2015;112:271–8.

58. Nayak P, Pantvaidya G, Ranganathan P, Jiwnani S, Joshi S, Gogtay NJ. Clinical studies with Cannabis in India - A need for guidelines for the investigators and ethics committees. *Perspect Clin Res*. 2023 Jul-Sep;14(3):146-151. doi: 10.4103/picr.picr_159_22. Epub 2023 Jun 26. PMID: 37554245; PMCID: PMC10405537.