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# Therapeutic and Safety Aspects of Amrita

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Abstract: Amrita (Guduchi) has been used in Ayurvedic preparations for the treatment of various ailments throughout the centuries. It is used as a rasayana to improve the immune system and body resistance against infections. The whole plant is used medicinally; however, the stem is approved for use in medicine as listed by the Ayurvedic Pharmacopoeia of India. The phytoconstituents reported from this herb belong to different classes, such as alkaloids, diterpenoid lactones, glycosides, steroids, phenolics, aliphatic compounds and polysaccharides. Various properties of amrita has been described in ancient texts of Ayurveda, like Rasayana, Sangrahi, Balya, Agnideepana, Tridoshshamaka, Dahnashaka, Mehnashaka, Kasa-swasahara, Pandunashaka, Kamla-Kushta-Vataraktanashaka, Jwarhara, Krimihara, Prameha, Arshnashaka, Kricch-Hridroganashak, etc., are acquiring scientific validity through modern researches. Potential medicinal properties reported by scientific research include anti-diabetic, antipyretic, antispasmodic, anti-inflammatory, anti-arthritic, antioxidant, anti-allergic, anti-stress, anti-leprotic, antimalarial, hepato-protective, immuno-modulatory and anti-neoplastic activities. This review brings together various properties and medicinal uses of amrita described in Ayurvedic classical texts along with phytochemical and pharmacological characters.

Keywords: Anti-leprotic, Balya, Phytoconstituents, Prameha, Rasayana, Tridoshashamaka etc.

#### 1. Introduction

Amrita is a very potential drug in ayurveda. It is mentioned among the four medhya <sup>(1)</sup> rasayana by acharya caraka and has numerous benefits. Its letin name is *Tinospora cordifolia* (Willd.) Hook. f. and Thoms. In Hindi, the plant is commonly known as *Giloe*, which is a Hindu mythological term that refers to the heavenly elixir that has saved celestial beings from old age and kept them eternally young.

#### **Synonymns:**

Guduchi, amrita, chinnaruha, Chinnodbhava, kundalini Vatsadani, (Sanskrit), Guluncha (Bengali), Gurcha (Hindi), Garo, Galac (Gujarati), Thippateega (Telugu), Amrutavalli (Kannada), Amrita, Gilo (Kashmiri), Chittamrutu (Malayalam), Gulvel (Marathi), Guluchi (Oriya), Gilo (Punjabi), Seendal, Seendil Kodi (Tamil), Siddhilata, Amarlata (Assam) (Bhav Prakash²)

Other common names and synonyms (3) are: Madhuparni, Guduchika, Chinna, dhara, somvalli, kundali, naagkumari, chinnangi, jwaranashini, jeewanti, devnirmita, vyastha, mandali, saumaya, vishalya, amritasambhava, pindamrita, bahuchinna, kandarohini, rasayani, mrittika, chandrahasa, bhishagjita. Tantrika,, Chakralakshanika

In *Nighantu adarsha*, (4) the meanings of some of its synonyms are very beautifully explained like:

• Guduchi – Guda Rakshane which means one which protects the entire body from diseases.

- chinnarooha-Chinna api rohati: means which grows up after cutting.
- *Tantrika –Tantri kutuba dharne*: means which protects the lives of whole family.
- *Amrita-na mritamasya*: means which enhance the vitality and longevity of life.
- *Madhuparni-madhumayani parnaanyasya*: means having sweet leaves.
- Chakralakshanika means stem shows chakrakara appearance when cut inside.
- Vatsadani-vatse adayate means mammals eat it.

### Habitat and Morphology (5):

It is a perennial climber belonging to the family Menispermaceae found throughout Tropical India. Stem of *T. cordifolia* appears in varying thicknesses, ranging from 0.6 to 5 cm in diameter; young stems are green with smooth surfaces and swelling at nodes, while the older ones show a light brown surface marked with warty protuberances due to circular lenticels; transversely smoothened surface shows a radial structure with conspicuous medullary rays. The leaves are membranous and cordate. The flowers are small and yellow or greenish yellow. The seeds are curved. Fruits are fleshy and single seeded. Flowers grow during summer; and fruits, during winter. Drug is collected during summer preferably in the month of May, drug is used in fresh form also.

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# 2. Literary Review

If we take a look on our samhitas, total five synonyms of guduchi are available in caraka samhita and it is included under seven different dashemani. Description of guduchi is found at 41 places and included in 9 gana based on its therapeutic uses in sushruta samhita. In dhanvantry nighantu, guduchi was mentioned first in out of seven vargas.34 synonyms and two varities (3): Guduchi and Kanda guduchi are explained'In kaidev nighantu, 19 synonyms with two varities: Guduchi and Padma guduchi (6) are explained. In bhavprakash nighantu, guduchi has been described in guduchyadi varga with 21 different synonyms. In Raj nighantu (7), 31 synonyms with two varities Guduchi and kanda guduchi has been explained. In Shaligram nighantu, (8) 9 synonyms of guduchi and 6 synonyms of kanda guduchi has been explained. Different acharyas has classified the drug in different groups or catagories on the basis of its nature, karma, rogaghnata etc. This is summerised in the table no.1.

**Table 1:** Showing the description of *guduchi* in different *gana/varga/mahakasaya* of different classical texts

Samhita	Name used in	Varga/Mahakasaya
	the context	
Caraka samhita	Guduchi	Sandhaniya <sup>(9)</sup>
	Guduchi	Triptighana <sup>(10)</sup>
	Guduchi	Stanyashodhana <sup>(11)</sup>
	Guduchi	Trishnanigrahana <sup>(12)</sup>
	Guduchi	Dahaprashamana <sup>(13)</sup>
	Amrita	Vayasthapana <sup>(14)</sup>
	Guduchi	Madhura skanda <sup>(15)</sup>
	Guduchi	Tikta skanda <sup>(16)</sup>
	Guduchi	Shirovirechana <sup>(17)</sup>
SushrutaSamhita	Vatsadani	Vatasanshaman gana

	Chinnaruha	Pittasanshaman gana
	Guduchi	Shleshmasanshaman gna
	Guduchi	Shodhana Varga
	Amrita	Ropana gana <sup>(18)</sup>
	Guduchi	Aaragvadhadi gana <sup>(19)</sup>
	Guduchi	Shyamadi gana <sup>(20)</sup>
	Guduchi	Patoladi gana <sup>(21)</sup>
	Chinnaruha	Kakolyadi gana <sup>(22)</sup>
	Guduchi	Guduchyadi gana <sup>(23)</sup>
	Guduchi	Vallipanchmoola (24)
	Guduchi	Shaka varga <sup>(25)</sup>
	Amrita	Shaka Varga <sup>(26)</sup>
	Amrita	Padmakadi gana <sup>(27)</sup>
Ashtanga Hridya	Guduchi	Patoladi gana <sup>(28)</sup>
Asmanga IIriaya	Guduchi	Guduchyadi gana <sup>(29)</sup>
	Amrita	Aaragvadhadi gana <sup>(30)</sup>
	Chinnaruha	Shyamadi gana <sup>(31)</sup>
In Nighantu		
Bhavprakash nighantu (6)	Guduchi	
Nighantu adarsha <sup>(4)</sup>	Guduchi	
Dhanvantri nighantu <sup>(3)</sup>	Guduchi	Guduchyadi varga
Rajnighantu <sup>(7)</sup>	Guduchi	
Sodhala nighantu	Guduchi	
Shaligram nighantu	Guduchi	
Kaidev nighantu	Guduchi	Aushadhiya varga
Priya nighantu	Guduchi	Pippalyadi varga
·		

# Rasapanchaka (Pharmacodynamic properties) of Guduchi:

Based on the *rasa panchaka*, *Guduchi* is having *tikta kasaya rasa*, *laghu* and *ushna* in nature, *madhura vipaka* and *tridoshashamaka*. (5) Various classical texts of *ayurveda* have claimed a wide range of therapeutic attributes of *guduchi*. Slight difference in the views of different *acharya* regarding pharmacodynamic properties of *guduchi* is listed in table no.2

**Table 2:** Showing the *Rasapanchaka* (pharmacological properties) of *guduchi* according to different classics:

Sr. No.	Classical Text	Rasa	Guna	Veerya	Vipaka	Prabhava/Karma
1.	Caraka samhita	Tikta	Guru	Ushna	Madhura	Vatahara
2.	Sushruta samhita	Tikta	Guru	-	Guru	Aamhara
3.	Ashtanga samgraha	Tikta	1	Ushna	1	Sangrahi
4.	Ashtanga Hridya	Tikta		Sheeta	Guru	
5.	Bhavprakash nighantu	Katu, tikta	Laghu	Ushna	Madhura	Vatpittahara
6.	Dhanvantri nighantu	Tikta, kasaya	Guru	Ushna	1	Hridya
7.	Nighantu Adarsha	Katu, tikta, kasaya		Ushna	Madhura	=
8.	Madanpal nighantu	Katu, tikta, kasaya	Laghu	Ushna	Madhura	=
9.	Rajnighantu	Tikta, kasaya	Guru	Ushna	1	Vahnikrita
10.	Kaidev nighantu	Tikta, kasaya, katu	Laghu	Ushna	Madhura	Balyaa
11.	Shaligram nighantu	Tikta, m kasaya	Guru, ushna	Ushna	Madhura	Aayushya
12.	Dravya guna vigyanam	Tikta, kasaya	Guru, snigdha	Ushna	Madhura	-

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### Dose and adjuvents (32):

Classical dose of different dosage forms of guduchi is as

follows:

Guduchi powder: 1-3 masha (1-3g) Guduchi kwatha: 4-8 tola (40-80ml) Guduchi satva: 5-15 ratti (1-2g)

Specific adjuvents are mentioned in dhanvantri nighantu (33)

for different diseases which are as follows:

Vata vikara: ghrita Pitta vikara: sharkara Kapha vikara: Madhu Vibandha: Guda (jaggery)

amvata: Shunthi

### Therapeutic uses of guduchi:

The starch obtained from the roots and stems of the plant is similar to arrow root in appearance and effect. It answers not only as remedial medicinal agent in chronic diarrhoea and some forms of obstinate chronic dysentery but it is also a valuable nutrient when there is intestinal irritability and inability to digest any kind of food. It is useful in relieving the symptoms of rheumatism. Freshly prepared juice acts as powerful diuretic. In certain parts of India, the plant is regarded as a specific for the bites of poisonous insects and venomous snakes. Among the mundas of chota Nagpur, the whole plant, well ground is applied on fractures. In Ceylon, the stems are used in fevers, skin diseases, jaundice and syphilis. (Indian medicinal plants vol 1page, No.77).

Various classical texts has highlighted a no. of actions, therapeutic indications and clinical application of *guduchi*. Some texts has also mentioned specific *anupana* (adjuvant) of *guduchi* for specific disease These therapeutic indications, different dosage forms with specific anupana are compiled in the table no.3:

**Table 3:** Showing the apeutic indication with anupana of guduchi according to different acharya

Samhita	Therapeutic Indication	Dosage Form	Anupana (Adjuvent)
	Rasayana <sup>(1)</sup>	Guduchi swarasa	-
	Vishama jwara <sup>(34)</sup>	Guduchi kwatha	-
Carka Samhita	Halimaka <sup>(35)</sup>	Guduch swarasa	-
	Pittaja chardi <sup>(36)</sup>	Guduch swarasa	-
	Stanyashodhana <sup>(37)</sup>	Guduchi kwatha	-
	Vatrakta	Guduchi swarasa	-
Sushruta samhita	Arsha	Guduchi swarasa	Takra
Sustituta samnita	Vataja jwara <sup>(38)</sup>	Guduchi kwatha	
	Prameha	Guduchi swarasa	Honey
Bhavaprakasha	Balya	Guduchi churana	Jaggery+Honey+Goghrita
	Jeerna jwara <sup>(39)</sup>	Guduchi kwatha	Pippali+Honey
	Kamla <sup>(40)</sup>	Guduchi patra kalka	Takra
	Arsha (41)	Guduchi swarasa	Takra
	Halimaka	Guduchi swarasa	Mahisha dugdha+ghrita
	Vataja raktapradara	Guduchi swarasa	
	Stanya shodhana <sup>(42)</sup>	Guduchi kwatha	
	Pittaja chardi	Guduchi swarasa	
	Jwara	Guduchi satva	
Chakradatta	Shalipada	Guduchi swarasa	Tila taila
	Jwara	Guduchi patrashaka	
Sharangdhara	Pilla roga, arma, timira	Guduchi swarasa	Honey+Saindhava lavana
	Jeerana jwara <sup>(43)</sup>	Guduchyadi kwatha	
	Vaatrakta <sup>(44)</sup>	Guduchi kwatha	Aranda taila
	Prameha <sup>(45)</sup>	Guduchi swarasa	Honey
	Kamla	Guduchi swarasa	

### $Different\ polyherbal\ formulations\ of\ \textit{Guduchi}:$

A no. of references are there pertaining to clinical application of *Guduchi* in different diseases in our *samhitas*. The herb is mentioned for both internal and external therapeutic use under various formulations. Herb is also used in *panchkarma* therapy and other procedures. These all are enlisted in the table no.4, 5 and 6 below:

**Table 4:** Showing different polyherbal formulations of *Guduchi* with their therapeutic indication

Formulation	Therapeutic Indication
Amrita satva	Jwara
Sanshamni vati	Jwara
Guduchyadi Modaka	Jwara
Amritadyarishta	Jwara
Guduchyadi kwatha	Pittaja Jwara
Guduchyadi rasakriya	Netraroga
Amrita ghrita	Jeerana jwara

Amrita ghrita	Aamvaata (chakradatta 25-58/59)
Amritadya ghritam	Vaatrakta (Bhav prakasha madhyama khanda vaatraktadhikara29/102, 108,
Mahaguduchi ghritam	110.117, 138/144.132/137 Vaatrakta
Guduchi Tailam	Vaatrakta
Amritavhya Tailam	Vaatrakta
Bala Taila	Mudhagarbha
Agurvadi Taila	Sheetaja jwara
Vishamjwarahara yoga	Visham jwara (caraka)
Mahakhadir ghrita	Sarwakushtha
Amritadya guggulu	Medo Roga

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**Table 5:** Showing *Guduchi* in panchkarma and other procedures:

Formulation/Procedure	Therapeuic use
Guduchyadi niruha basti	Jwara
Patoladya anuvaasna basti	Jwara
Guduchyadi yoga for virechana	Kaph janya roga
Guduchyadi yoga for anuvaasana basti	Sarva vata vikara
Patoladi kwatha for vamana and virechana	Vartama Roga
Shampakai asthapana basti	Grahani
Guduchi-nimba kalka yukta taila for nasya	Mukharoga

**Table 6:** Showing *Guduchi kalpa* for External application:

Formulation/Procedure	Therapeutic use
Rasnadi ghrita pradeha	Vatrakta
Guduchyadi parisheka sweda	Rajyakshama
Kulathikadi pralepa	Agnirohini
Chitrakadi yoga for lepa	Kushtha
Guduchyadi ghrita for abhyanga	Mukhroga
Guduchyadi kwatha for parisechana	Guhyaroga
Guduchi patra acchadana	Atidagdha

# Active phytoconstituents of *Guduchi* and their biological role:

The plant contains some alkaloids, diterpanoid lactones, some glycosides, steroids, giloin, giloinin, tinosporic acid, various antioxidants like ascorbic acid, lycopenes, carotene, anthocyanin etc. and some minerals like calcium, phosphorus, zinc, copper, iron etc. Biological activities of these phytoconstituents has been described in table no.7:

**Table 7:** Showing phytocontituents of *Guduchi* along with their properties

their properties		
Active phytoconstituents	Properties	
Alkaloids: berberin, tinosporin,	Anti –cancer, anti-viral, anti-	
magnoflorin, choline,	inflammatory, neuroprotective,	
aporphine, palmetin etc.	immunomodulatory.	
Glycosides: Syringin, pregnane	Dementia, immunomodulatiry,	
glycoside, palmatosides etc.	anti-cancer	
Diterpenoid Lactones:	Anti-inflammatory, anti-	
Tinosporon, columbin,	microbial, anti-viral, vaso	
Furanolactone etc.	relaxant	
Steroids: Makinsteron A,	I <sub>g</sub> A neuropathy, cox-2 inhibitor,	
$\beta$ sitosterol, $\delta$ sitosterol etc.	glucocorticoid induced	
	osteoporosis	
Giloin, giloinin, tinosporic acid	Protease inhibitors for HIV	
etc.		

#### Safety aspects of Guduchi:

Although extensive research work has been done on this herband no toxicity is seen as such. The drug is safe for use in various dosage forms. Guduchi or Gilov is being widely used in therapeutics for a long time in AYUSH systems. The Ministry of Ayush issued the guideline after it noticed safety concerns on the use of Guduchi (Tinospora cordifolia) that appeared on some social media platforms and in some scientific journals. Its hepato-protective properties are also well established. However, similar looking plants such as Tinospora crispa may be harmful to human health. The ministry said; Guduchi is known for its immense therapeutic applications and the practices are regulated in accordance with various applicable provisions. It is observed that different species of Tinospora are available and only Tinospora cordifolia should be used in therapeutics, whereas similar looking species such as Tinospora crispa may

manifest adverse effects. Thus, it is reiterated that *Guduchi* is a safe and effective *Ayurvedic* medicine.

#### 3. Conclusion

So this present review highlights the preventive, promotive and curative aspect of *Guduchi* from ayurvedic perspective which is now validated by evidence based studies. Ministry of ayush has also recommended that use of *Guduchi* and its formulations is totally safe. Global scenario is now changing towards the use of herbal natural products. *Guduchi* due to its countless medicinal properties, deserves a special attention towards its cultivation for easy availability and specific scientific researches to explore its practical clinical application.

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