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Review Article

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ROLE OF (VITEX NEGUNDO) NIRGUNDI IN PAIN MANAGEMENT

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INTRODUCTION

There are many ways to treat pain in many ways. If we talk about Ayurveda, yes it's a boon to mankind. This is the safest way to deal with various health problems. Nature is being provided with wonderful herbs and we are enough lucky to use them. Ayurveda says that balance of three doshas of body — Vata, Pitta and Kapha is health and vitiation leads to various health problems. If we talk about pain, its mentioned as shoola in ayurvedic literature. That is mainly due to vata vitiation in the body. So where vitiation of vata, pain is the foremost symptom that occurs. Hence treatment with some vata shamak dravyas would be beneficial and effective like gugglu, shallaki etc. Nirgundi is one of them.

Nirgundi

- Nirgundi or Five-Leaved Chaste Tree (*Vitex negundo*) is evergreen medicinal deciduous shrub
- It is native to India and also found growing in Bangladesh, China, Philippines, Sri Lanka, and Japan.
- It is usually grown as a fencing for agriculture lands as well as house.
- **Botanical Name** -*Vitex negundo*
- **Family** Verbinaceae
- Gana: Vishaghna, Krimighna (Charak), Surasadi Gana (Su.)



• Types: (A) Nilapushpi (B) Shwetpushpi

Ayurvedic properties

• **Rasa** : Katu (pungent), Tikta (bitter);

• Guna : Laghu (Ruksha), Rooksha (dry);

• **Virya** : Ushna (hot);

• **Vipaka** : Katu (pungent);

• **Doshakarma**: Kapha-Vata Shamaka.

Pharmacological Actions

- 1] Anti-inflammatory activity:-
- The anti-inflammatory properties of *Vitex negundo Linn. extracts in acute and sub-acute* inflammation are attributed to *prostaglandin synthesis inhibition*.
- 2] Anti-nociceptive activity: -It suggested that *Vitex-negundo Linn*. possesses both central and peripheral analgesic activity. The central analgesic action does not seem to be mediated through opioid receptors. It may prove to be a useful adjuvant therapy along with standard analgesic drug.

Important Medicinal Properties

Vitex negundo is rich in medicinal properties. The understanding of these properties will help us to better utilize this herb. These also indicate the conditions in which we should avoid it. Below is given medicinal properties along with the meaning.

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	1. Analgesic: Acting to relieve pain.
	2. Anthelmintic; Antiparasitic: expel parasitic worms (helminths) and other internal
	parasites from the body.
	3. Antiandrogenic: Androgen antagonists or testosterone blocker drug, counteract the
	effects of the male sex hormones, testosterone and dihydrotestosterone.
	4. Anti-asthmatic: Treat or prevent asthma attacks.
П	5 Anti-catarrhal: Remove excess mucous from the body

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☐ 12. **Hepatoprotective**: Prevent damage to the liver.

☐ 13. **Larvicidal**: Kills mosquito larva.

☐ 14. **Muscle relaxant:** Relax or reduce tension in muscle.

Medicinal Uses of Vitex negundo

Sharma et al.

Vitex negundo is a medicinal tree. It is used in treatment of Vata and Kapha.

❖ Roots: are tonic, febrifuge, expectorant, diuretic; also used for fever, cough, urinary problems, dyspepsia, rheumatism, and also for boils.

The powdered root is consumed as an antihelmintic.

- **Flowers:** are used in fever, diarrhea and liver complaints.
- ❖ Fruit: is nervine, cephalic, emmenagogue and Dried fruit is vermifuge; fruits used in headache, catarrhae and coryza.
- **❖ The leaves:** are generally used as a fomentation in sprains, rheumatism, swelled testicles, contusions.
- ❖ Nirgundi Oil: is good for sexually transmitted diseases, syphilis, venereal diseases, and other syphilitic skin disorders.
- > Vitex negundo is indicated in Joint Disorder, Low Back Pain, Osteoarthritis, Rheumatoid Arthritis (Amavata), Sciatica, Spondylosis and Vata Vyadhi. It is especially useful in rheumatism, rheumatic swellings of the joints and in sprains.

Use of Nirgundi in pain management properties

> 1. Arthritis

Nirgundi leaf powder is dried and ground and taken in dose of one table spoon, twice a day.

> 2. Abdominal gas and pain

Make decoction of its leaves and drink.

> 3. After Delivery Care

Leaf decoction is used as a bath after delivery.

> 4.Asthma, cough

Take 1/4th decoction three times a day (same as prepared for fever).

> 5. Boils and pimples

Grind neem, Karanja and Nirgundi (Vitex negundo) and apply topically.

▶ 6. Bone fracture

Leaf ground with salt and pepper seeds into a paste is applied for bone fracture.

> 7. Burning urination and kidney stone

About two spoon root extract dissolved in tender coconut water is used twice a day for a week.

> 8. Chronic fever, intestinal parasites

Root decoction is given.

> 9. Cold, cough, headache, fever

Leaves are boiled in water and the vapour is inhaled twice a day.

> 10. Cyclic mastalgia

(Cyclic breast pain, usually most severe before a menstrual period)

Dosage range for liquid alcohol-based tincture or encapsulated tinctures, 4: 1 extract is usually around 1 ml for typical dosing, 3 – 4 times a day.

> 11. Fever, toothaches

Take Nirgundi leaves (6 tablespoon) in water (2 glasses) and boil for 15 minutes. Filter the decoction and divide in three parts. Take thrice a day on gap of 4 hours.

▶ 12. General PMS and related symptoms relief

The liquid alcohol-based tincture or encapsulated tinctures, 4:1 extract is usually given in dose of 1 ml for typical dosing, 3-4 times a day.

➤ 13. Reducing swelling, curing swollen joints and its pain

Nirgundi leaf powder is taken in dose of half teaspoon, twice a day.

> 14. Orchitis

Leaf paste along with a paste of pepper is used to treat orchitis.

> 15. Pain in ears

Leaves are cooked in mustard oil and filtered. This oil is used as ear drop.

> 16. Pain in muscles

Leaves are smeared with mustard oil, heated and applied on affected area.

> 17. Gout, calculus

Intake of root decoction for a period of 2 weeks is effective against gout and calculus.

➤ 18. Head ache

Take Nirgundi leaves and grind with water to make paste. Apply this paste on forehead.

> 19. Rheumatism

- 1. Oil prepared from leaves is applied.
- 2. Heated leaf is pressed and tied for rheumatoid arthritis pain and sprains.

> 20. Sprain (Moch in hindi)

Heat fresh leaves. Apply poultice of it on sprained area.

> 21. Throat pain, oral ulcers

A decoction of leaf is used for gargling.

Dosages of Vitex negundo

The recommended dosage for therapeutic purpose is given below:-

- 1. Dried fruit extract daily: 40 mg.
- 2. Dry leaves extract: **300-600 mg**, twice a day.
- 3. Fluid extract ([1:1] g/mL): **0.5-1.0 mL** daily.
- 4. Fruits: **3-9 fruit** in decoction.
- 5. Leaf decoction: **50-100ml**, twice a day.
- 6. Leaf juice: 10-20 ml, twice a day.
- 7. Leaf powder: **1.5-3g**, twice a day.

- 8. Root Bark Powder: **3-6 grams**, twice a day.
- 9. Seeds Powder: 1-3 grams, twice a day.
- 10. Tincture: 40 drops.

Contraindication, Interactions, Side – effects and Warning Vitex Negundo

Vitex negundo use is contraindicated in following:-

- Known allery to vitex family.
- Use with Dopamine agonist & HRT, Anti psychotic drugs.
- Cardiac glycosides.
- Interfere efficacy of OCP.
- Absolutely C/I in pregnancy & Laction.

CONCLUSION

In recent year, ethnobotanical and traditional uses of naturally compound, especially plant origin receive much attention as they were well tested for their efficacy generally believed to be safer for human use. *Vitex negundo* has been proved as a boon in various painful conditions of muscles & joints including rheumatism, sprains, myalgia, orchitis, headache, toothache, throat pains & various gynaecological conditions. Its most actions are attributed to its important content **Flavonoid.**

REFERENCES

- 1. http://:www.Ayurvedaconsultant.com/herb (Assessed 20. 3. 2014).
- 2. Kritikar KR, Basu BD, Indian Medicinal plants Dehradun Publishers Ltd, India, 1994; 1: 830-832.
- The wealth of India The dictionary of Indian raw materials of industrial products. Volu.
 X (sp-w) publication of information directorate CSIR (Council of scientific of Industrial
 - Research) New Delhi 1976.
- 4. Dr. K.M. Nardkarnis Indian material medical vol − 1 1927. Second edition Bombay popular prakashan. Revised and enlarged by A. J. Nadhwni.
- 5. Khare CP, Encyclopedia of Indian Medicinal plants. Spinger Verlange Berline Heidelberg New York, 2004; 474-476.
- 6. The Ayurvedic Pharmacopeia of India. Government of India Ministry of health and family welfare department of ISM and H., 2001; Part-1, 3: 142–144.
- 7. http://www.Planetayurveda.com/homeremedies.htm accessed on Aug 2008.
- 8. http://www.Blissayurveda.com/pics/Vitexne gundo.Jpg assessed on Oct 2009.

- 9. Sharma PC, Yelne MB, Dennis TJ, Database of medicinal plants used in Ayueveda. New Delhi, CISR, 2005; 450.
- 10. Singh V, Dayal R, Bartley JP, Volatile constituents of vitex negundo leaves. Planta Med, 1999; 65: 580-582.
- 11. Mallavarapu GR, Ramesh S, Kaul PN, Bhattacharya AK, Rajehwara Rao B.R. Composition of essential oils the leaves of vitex negundo. Plant Med, 1994; 60: 583-584.
- 12. Dayal R, Singh VA, Comperative study of volatile constituent of vitex negundo Leaves. J med Aromat Plant Sci, 2000; 22: 639-640.
- 13. Chowdhury B, Dutta U S, Pakrashi PK, Two isomeric flavonones from Vitex negundo Linn. Phytochemistry, 1984; 23: 703.
- 14. Subramanian PM, Mishra GS, Flavonoids of Vitex Negundo, J. Nat. Products, 1979; 42(5): 540-542.
- 15. Vishwanathan AS, Basavaraju R, A Review on vitex negundo L. –A medicinally important plants. EJBS, 2010; 3[1]: 30-42.
- 16. Gautam LN, Shrestha SL, Wagle P, Tamrakar BM, Chemical constitutents from Vitex Negundo (linn.) of Nepalese oigin Scientific World, 2008; 6: 6.
- 17. Chaturvedi GN, Singh RH, Indian Journal of Medical Research, 1965; 53: 71.
- 18. Hansal R, Leuckert C, Rimpler H, Schaaf KD, Phytochemistry, 1965; 4: 19.
- 19. Sirait LM, Rimpler H, Experientia, 1962; 18: 72.
- 20. Das S, Praveen S, Kundra CP, Pereira BM, Reproduction in male rats is vulnerable to treatment with the flavonoid rich seed extracts of vitex negundo. Phytother Res, 2004; 18[1]: 8-13.
- 21. P. V. Sharma, Dravyagunavijnana Vol 2nd published by Chaukhambha bharati Academy reprint, 2011; 66-68.