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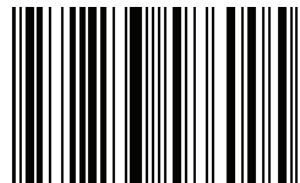
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The Healing Power of Stinging Nettle: Unlocking The Medicinal Properties of a Versatile Herb

By

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Nettle, also known as stinging nettle (*Urtica dioica*) has been used for medicinal purposes for thousands of years, with its use dating back to ancient civilizations including the Greeks and Romans. In Malaysia, this herb is known as "Jelatang" and is traditionally used as a general tonic to improve overall health and treat a wide range of health conditions.

In the Middle Ages, stinging nettle was used to treat gout, a painful condition caused by the build-up of uric acid in the joints. In the 19th century, stinging nettle was used as a remedy for rheumatism, diabetes, and digestive problems. Today, numerous traditional applications of this herb have been confirmed by modern research, and its medicinal properties are widely acknowledged.

Stinging nettle is commonly used as a natural remedy for allergies, arthritis, and prostate problems.

It is also used as a natural supplement for general health and wellness due to its rich content of antioxidants, vitamins, and minerals. This versatile herb offers a range of health benefits, especially for men, making it a natural solution for reducing inflammation and treating various health conditions.

Active Compounds

One of the reasons why stinging nettle is so versatile is the combination of active compounds it contains, each of which has unique medicinal properties. Let's take a closer look at some of the key active compounds found in stinging nettle:

- ✓ **Flavonoids:** These powerful antioxidants are found in many plants and have anti-inflammatory properties. Flavonoids found in stinging nettle leaves help reduce inflammation in the body, making it an effective remedy for conditions like arthritis.
- ✓ **Phenols:** These anti-inflammatory substances found in the roots of stinging nettle can reduce swelling on the skin and inside the body.

✓ **Histamines:**

Stinging nettle has antihistamine properties which help to reduce allergy symptoms such as a stuffy nose and skin irritation.

- ✓ **Saponins:** These foamy compounds can be found in many plants. They have anti-inflammatory and diuretic effects. Stinging nettle is rich in saponins, which makes it effective for treating urinary tract infections and kidney stones.

- ✓ Lectins: These proteins, found in many plants have anti-inflammatory and anti-cancer properties. Stinging nettle is rich in lectins, making it a powerful herb for boosting overall health and wellbeing.
- ✓ Alkaloids: These nitrogen-containing compounds, found in many plants, have a range of medicinal properties. Stinging nettle contains several alkaloids, including serotonin, which plays a role in regulating mood and pain perception.

Medicinal Properties

Stinging nettle has been utilized for medicinal purposes for centuries, and its pharmacological profile is increasingly being studied and confirmed by scientific research. This versatile herb is abundant in a variety of active compounds that contribute to its medicinal properties, making it a useful remedy for various health conditions.

- Anti-inflammatory: The leaves of stinging nettle contain flavonoids and phenols that can help reduce inflammation in the body. These active compounds work by suppressing the production of reactive oxygen species and certain inflammatory mediators.
- Analgesic: The anti-inflammatory properties of stinging nettle make it a natural remedy of choice for pain relief. It is particularly effective in reducing swelling and improving comfort in conditions such as osteoarthritis.
- Antihistamine: The antihistamine properties of stinging nettle make it a useful remedy for allergies, including reducing symptoms of a stuffy nose and skin irritation.
- Diuretic: The root of stinging nettle has diuretic properties, making it an effective treatment for urinary tract infections and kidney stones. It helps increase urine flow and reduce the frequency of urinary tract symptoms.
- Antioxidant: Stinging nettle is rich in antioxidants, which protect the body from oxidative stress and prevent cellular damage.
- Prostate-Protective: This is the specific pharmacological property of stinging nettle that is particularly beneficial for men. Studies have confirmed that stinging nettle has a positive effect on prostate health and can help reduce the size of the prostate, relieve urinary symptoms, and improve overall prostate function.



Figure 1. Nettle leaves
Source: klikdokter.com



Figure 2. Nettle root
Source: plantbasedservices.com



Figure 3. Commercial Nettle Root Extract
Source: evitamins.com

Its versatility as a natural remedy has been proven by centuries of use and confirmed by modern scientific research. From relieving pain and reducing inflammation to improving prostate health and managing urinary tract symptoms, stinging nettle offers a range of health benefits for men.

This herb is a rich source of antioxidants, flavonoids, phenols, histamines, saponins, lectins, and alkaloids, all of which contribute to its pharmacological profile.

Whether consumed as an herbal tea, applied topically, or taken orally, stinging nettle is a versatile and natural solution for men seeking to reduce inflammation and treat various health conditions. So, the next time you're looking for a natural remedy, consider incorporating stinging nettle into your health routine.

References:

Bhusal, K.K., Magar, S.K., Thapa, R., Lamsal, A., Bhandari, S., Maharjan, R., Shrestha, S., & Shrestha, J. (2022). Nutritional and pharmacological importance of stinging nettle (*Urtica dioica* L.): A review. *Heliyon*, 8(6), e09717.

Đurović, S., Pavlič, B., Šorgić, S., Popov, S.Z., Savić, S., Pertonićević, M., Radojkovic, M., Cvetanović, A., & Zeković, Z. (2017). Chemical composition of stinging nettle leaves obtained by different analytical approaches. *Journal of Functional Foods*, 32, 18-26.

Grauso, L., de Falco, B., Lanzotti, V., & Motti, R. (2020). Stinging nettle, *Urtica dioica* L.: botanical, phytochemical and pharmacological overview. *Phytochemistry Reviews*, 19, 1341-1377.

Gülçin, I., Küfrevioğlu, O.I., Oktay, M., & Büyükkuroğlu, M.E. (2004). Antioxidant, antimicrobial, antiulcer and analgesic activities of nettle (*Urtica dioica* L.). *Journal of Ethnopharmacology*, 90(2-3), 205-215.

Mamta, S., & Preeti, K. (2014). *Urtica Dioica* (Stinging Nettle): A Review of its chemical, pharmacological, toxicological and ethnomedical properties. *International Journal of Pharmacy*, 4(1), 270-277.

Moreira, S.A., Silva, S., Costa, E.M., Saraiva, J.A., & Pintado, M.E. (2020). Effect of high hydrostatic pressure extraction on biological activities of stinging nettle extracts. *Food & Function*. 11, 921-931.

Said, A.A.H., Otmani, I.S.E., Derfoufi, S., & Benmoussa, A. (2015). Highlights on nutritional and therapeutic value of stinging nettle (*Urtica dioica*). *International Journal of Pharmacy & Pharmaceutical Sciences*, 7(10), 8-14.

Zeković, Z., Cvetanović, A., Švarc-Gajić, J., Gorjanović, S., Sužnjević, D.Ž., Mašković, P., Savić, S., Radojkovic, M., & Đurović, S. (2017). Chemical and biological screening of stinging nettle leaves extracts obtained by modern extraction techniques. *Industrial Crops & Products*, 108, 423-430.

References QR code.

