APPLICATION AND MEDICINAL PROPERTIES OF XANTHIUM STRUMARIUM L. IN MEDICINE

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Abstract: *Xanthium Strumarium L. (Asteraceae) contains a large amount of iodine to prevent iodine deficiency diseases. Thus, there are about 10 chemical substances important in the medicine and construction industry from the X strumarium L plant. percent, on the other hand, as a result of obtaining additional chemicals from it, we can support the local budget and create jobs. Chemical analyzes show that iodine is present in all parts of the plant (up to 30%). it is possible to extract iodine from it, since its seeds contain up to 40% oil, it is possible to obtain solutions used as alif in the production of building materials, yellow and green dyes can be obtained from its seeds and roots.*

Key words: *X strumarium L, iodine, ascorbic acid, fatty oil in seeds, tar.*

Xanthium strumarium L is an annual plant belonging to the Asteraceae family, height 120 cm. The leaves are round, heart-shaped at the base. Fruits have oblong-looped smooth spines. The plant blooms in July-August. It grows almost all over the territory of Uzbekistan in weedy and vacant land[1,2,3,4,5]. X strumarium L leaf juice is used for asthma, throat spasms and similar diseases. In scrofulosis, skin cancer, lichen, eczema, acne, rashes, scurvy and fungal skin diseases, tincture or freshly pressed juice of the plant is used as an external remedy. The chemical composition of X strumarium L has not been well studied[6,7,8,9,10]. The leaves contain a relatively large amount of iodine, alkaloid and ascorbic acid (about 32 mg%). The seeds contain oily oil, tar, xanthostrumarin glycoside and iodine. Raw material collection and its quality: X strumarium L herb, root and fruits are used for medicinal purposes. The raw material of the herb is collected from the place where the leaves begin to grow. The roots are dug up in autumn and the fruits are harvested when they are ripe. The plant is used in the treatment of thyroid gland diseases in folk medicine. The drug has an antiseptic, fungicidal, anti-inflammatory, mild analgesic, diaphoretic and antipyretic effect. In the case of diarrhea, dysentery and inflammatory processes of the bladder, a tincture made from leaves, flowers and fruits (sometimes roots) is drunk[11,12,13,14]. Traditional use of Strumarium, pharmacology, pharmacokinetics, An overview of phytochemistry, botany and toxicology. In addition, a thorough analysis of several important issues and potential directions for further study of this species is presented. X. strumarium has been widely used as a traditional herbal remedy for many ailments including rhinitis, nasal sinusitis, headache, peptic ulcer, endemic goiter, rheumatism, bacterial, fungal and joint diseases. So far, more than 170 chemical components of X. Strumarium have been isolated and identified. X.

strumarium has an anti-inflammatory and analgesic effect. Its effects and antitumor effects have been widely used in clinical practice in many countries. At the same time, many modern studies have been conducted on X. Strumarium and its pharmacological activities and chemical composition have been investigated beforehand. nevertheless, how to find out the mechanism of pharmacological action and related compounds, develop the clinical efficacy of X. Strumarium and ensure the safety of the drug is still very important. First, the chemical compounds and pharmacological activities of X. Strumarium are mainly studied focusing on its fruits, but there are few studies on the roots, leaves, stems and other parts of X. Strumarium. In order to expand the source area of active compounds and maximize the use of the plant, it is very important for researchers to comprehensively evaluate other parts of this plant.

Thus, from the plant X strumarium L, there are about 10 chemicals important in medicine and construction industry, and their harvesting and processing can improve productivity by several percent, on the other hand, as a result of obtaining additional chemicals from it, we can support the local budget and create jobs. Chemical analyzes show that iodine is present in all parts of the plant (up to 30%). it is possible to extract iodine from it, since its seeds contain up to 40% oil, it is possible to obtain solutions used as alif in the production of building materials, yellow and green dyes can be obtained from its seeds and roots. In addition, the plant contains various alkaloids, which are useful for kidney inflammation (nephritis), skin diseases, throat congestion, angina, lung and bronchial colds, male impotence, hemorrhoids, suppuration of wounds. can be raw materials in obtaining anti-invaluable drugs . A decoction of the plant has been proven to help overcome donkey feed disease in children. X. strumarium has an anti-inflammatory and analgesic effect. Its effects and antitumor effects have been widely used in clinical practice in many countries. At the same time, many modern studies have been conducted on X. Strumarium and its pharmacological activities and chemical composition have been investigated beforehand. Nevertheless, how to find out the mechanism of pharmacological action and its related compounds, develop the clinical efficacy of X. Strumarium and ensure the safety of the drug is still very important. We can use it. In addition, iodine deficiency can be prevented because it contains a large amount of iodine.

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