Investigation of Properties of Medicinal Plants *Thyme* and *Cichorium intybus* L

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Abstract: For thousands of years, medicinal plants have been used to treat various diseases. Traditional medicine is still popular among people today and many people use the properties of medicinal plants to treat diseases. Some herbs are better known than others, both fresh and dried. In this article, we will investigate the properties of some medicinal plants.

Keywords: Medicinal Plants, antibacterial effects, *Thyme*, *Cichorium intybus* L.

INTRODUCTION

One of the concerns and concerns in the biomedical and medical sciences is bacterial and fungal resistance to the extent that some of these bacteria are resistant to chemical drugs more than 90%. Alexander Fleming, a well-known biologist and botanist, first examined the bacterial resistance and won the Nobel Prize in 1945 [1-3]. Nowadays, in cases where drug resistance is created by changing the drug to fight against pathogenic bacteria and fungi. On the other hand, for many years, natural remedies, especially medicinal herbs, have been the basis and even in some cases the only treatment, while their raw materials have been used in the pharmaceutical industry [4]. The advent of chemistry in the early twentieth century and the development of complex organic synthesis systems led to the development of the pharmaceutical industry and the substitution of synthetic drugs for herbal remedies [5]. But as advances in the production of new chemicals and various antibiotics began to take place, the harmful effects of these drugs gradually began to appear, and since the 1950s numerous pathogenic bacteria have shown resistance to antibiotics, which is still expanding [6]. Medicinal plants worldwide are used by indigenous populations and play an important role in treating human and animal diseases [7]. One of the major problems in antibiotic therapy today is the resistance and subsequent side effects of the drug. Accordingly, after researching the effects of plants, man has used them in various industries [8]. After the discovery of penicillin in the 40s, and its use in treatment, new antibiotics were introduced every day to treat infections [9]. The result was the expansion of the clinical use of natural and synthetic antibiotics in the treatment of clinical infections [10]. The overuse of these antimicrobial drugs has led to increased drug resistance against different antibiotics in most bacteria [11-13]. This has been one of the reasons for the growing use of herbs as low-risk, affordable, and inexpensive natural ingredients in the treatment of bacterial infections compared to synthetic antibiotics [14-16]. Also, these herbal remedies are more popular with people [17-19]. The role of natural products in drug production is increasing, not only when bioactive compounds are used directly as therapeutic drugs, but also when used as a raw material for drug synthesis, or as a model the base is used for new biologically active compounds [20-22]. Studies show that only about 10% of the 250,000 species of plants studied worldwide [23]. Therefore, the use of herbal drugs as an alternative to chemical drugs and antibiotics was investigated.

Thyme

Thyme is one of the most popular medicinal herbs that has long been used to treat a variety of diseases. This herb has aromatic and medicinal properties in the food, pharmaceutical, health and beauty industries. Thyme is useful for the treatment of headaches, colds, earaches, measles, cough, nerve strengthening, treatment of depression, fatigue and insomnia, and its use reduces blood pressure and lipids [24, 25]. It is also an anticonvulsant, antiepileptic and anti-
bloating medicinal product that enhances eyesight and stomach. Thinning with Thyme helps to heal and reduce hair loss. Eating thyme after meals treats any gastrointestinal problems such as bloating, heaviness, and stomach cramps [26, 27]. Thyme counteracts respiratory tract infections and reduces cough. The most effective antimicrobial compound is thymol and carvacrol [28]. Based on previous studies, it has been shown that Thyme extract can inhibit the growth of Escherichia coli, Salmonella, Shigella, Staphylococcus aureus, Klebsiella, Enterococcus, Pseudomonas aeruginosa and Acinetobacter spp [29-36].

**Cichorium Intybus L.**

*Cichorium intybus* is a medicinal plant with blue or purple flowers that is quite cool, a liver booster, and a heat and thirst pain reliever, and a warmth and booster for kidney and blood pressure, bile and urinary tract and kidney cleansers [37]. Water consumption of *Cichorium intybus* leaves is a useful medication for treating jaundice, kidneys and liver and relieves fever and strengthens the stomach [38]. *Cichorium intybus* is used to regulate blood pressure, lower blood sugar and treat headaches and liver diseases. It is used to relieve hot swelling, eye pain and visual acuity [39]. The Cichorium intybus root is warm and dry, and softening the chest, and consuming 2 cups of chicory leaf and a boiled root is very useful in the treatment of constipation. Given the presence of trypenoids in Cichorium intybus, these compounds may exert their antimicrobial and antifungal activity through binding to proteins and altering their function [40].

**CONCLUSION**

Rosemary significantly reduces the growth of disease-causing bacteria and slows the growth of bacteria, which increases with increasing concentration of these properties. Given the importance of medicinal plants and their derived metabolites in ensuring the health of human communities and the high economic potential of these plants, as a reliable source of income, a comprehensive and comprehensive plan is needed in developing countries. Part of the agricultural biotechnology research at universities and research institutes is dedicated to identifying, industrializing and optimizing the methods of extracting pharmaceutical metabolites from these plants.

**REFERENCES**


