

***Секція 7. Контроль якості лікарської рослинної сировини (ЛРС), парфюмерно-косметичних засобів, фітопрепаратів.***

**Prospects for the application Aloe vera in the treatment of dental diseases**

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Recent interest and advances in the field of alternative medicine has promoted the use of various herbal and natural products for multiple uses in the field of medicine. Aloe vera is one such product exhibiting multiple benefits and has gained considerable importance in clinical research.

Aloe vera is a cactus plant that belongs to the Liliaceae family. More than 300 species of aloe plants exist, but only 2 species have been studied, which are Aloe barbadensis Miller and Aloe aborescens. Ideal environment to grow this plant is tropical climate and low-rainfall areas.

Aloe vera has been used medicinally since the last few thousand years. History states that wars have been fought, as by Hannibal, in order to obtain control over its growing area in North Africa around 1750 BC. Its uses are mentioned in various books and Mesopotamian clay tablets in various countries like Egypt, Greece, South Africa, India, China, Mexico, Japan for various ailments like burns, hair loss, skin infections, hemorrhoids, sinusitis, gastrointestinal pain. It is also a wound healer for bruises, x-ray burns, insect bites; and anti-helminthic, somatic, anti-arthritic.

Aloe vera is a handy home remedy that can be used as a moisturizing agent. Aloe vera has been used for various skin conditions, including radiodermatitis, frostbite, psoriasis and genital herpes infection with good results. Reported pharmacological actions of Aloe vera include anti-inflammatory, antibacterial, antioxidant, antiviral and antifungal actions, as well as producing hypoglycemic effects.

Dental uses of Aloe vera are multiple. It is extremely helpful in the treatment of gum diseases like gingivitis, periodontitis. It reduces bleeding, inflammation and swelling of the gums. It is a powerful antiseptic in pockets where normal cleaning is difficult, and its antifungal properties help greatly in the problem of denture stomatitis, aphthous ulcers, cracked and split corners of the mouth. It is a powerful healing promoter and can be used following extractions. It has been used in root canal treatment as a sedative dressing and file lubrication during biomechanical preparation.

The raw leaf mucilage consists of 99.5% water, so it is not too surprising that the plant is injured at a temperature of 35°F and is killed at 32°F. Aloe vera are contain, depending on climatic or seasonal variances, complex mixtures of mucopolysaccharides, amino acids, natural hydroxyquinone glucosides, minerals and many other materials.

On the basis of this study, we conclude that Aloe vera is prospects for the application in the treatment of dental diseases.