

RELEVANCE OF CREATING A DENTAL GEL OF THE DENTAL GEL-BASED RAW MATERIALS OF NATURAL ORIGIN

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Currently periodontal diseases are the most complex and important issue that gets not only medical but also social significance. Due to the high prevalence of dental diseases we conducted an in-depth study of the range of gels used in the treatment of this disease. In the pharmaceutical market of Ukraine gels used in dental diseases are mainly represented by the combination of metronidazole with chlorhexidine. Only 30% dental gel as active pharmaceutical ingredients contain a combination of active ingredients of natural origin and synthetic substances. Gels, which include the active ingredients of purely natural origin are absent in the pharmaceutical market of Ukraine.

A study of the range of dental gels showed that the development of gel-based substances of plant origin is an important task. In developing such drugs should be taken to create composite formulations that affect different parts of the pathological process and thereby increase the effectiveness of treatment and significantly reduce the risk of possible complications.

Aloe vera is one such product exhibiting multiple benefits and has gained considerable importance in clinical research. Dental uses of Aloe vera are multiple. 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 stomatitis, aphthous ulcers, cracked and split corners of the mouth.

Drugs from Oak bark also are perspective for the treatment of dental diseases. Oak bark is widely used in medical practice in Ukraine and in foreign countries, but mostly used in medicine galene drugs of oak bark (decoctions, infusions) extemporal production. At the Department of Drug technology of National University of Pharmacy dense extract of oak bark are developed and put into production. Anti-inflammatory, antimicrobial, hemostatic properties are represented from it pharmacological activity. According this pharmacotherapeutic activity dence extract of oak bark with a complex of plant polyphenols, tannins and flobafen should be also add into composition of stomatological gel.

The combination of dense extract of oak bark with Aloe Vera in developed dental gel are provides comprehensive complex therapeutic effect.