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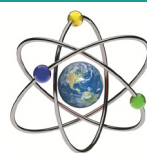


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- 13.00.00 Pedagogika fanlari
- 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
- 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
- 13.00.03 Maxsus pedagogika
- 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
- 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
- 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
- 13.00.07 Ta'limda menejment
- 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
- 13.00.09 Ijtimoiy pedagogika
- 07.00.00 Tarix fanlari
- 19.00.00 Psixologiya fanlari
- 01.00.00 Fizika-matematika fanlari
- 02.00.00 Kimyo fanlari
- 03.00.00 Biologiya fanlari
- 09.00.00 Falsafa fanlari
- 10.00.00 Filologiya fanlari
- 11.00.00 Geografiya fanlari

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EFFICACY OF A NEW OINTMENT FOR THE TREATMENT AND PREVENTION OF ALVEOLITIS

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Abstract: A study was conducted to evaluate the efficacy of a newly developed ointment intended for the treatment and prevention of alveolitis. The ointment demonstrated a low risk of skin irritation while exhibiting high adhesive capacity, effective exudate absorption, and pronounced antiseptic properties due to its active components. The clinical trial involved 116 patients aged 25–60 years diagnosed with acute alveolitis, in whom the primary precipitating factors were exacerbations of chronic periodontitis and complex dental procedures.

Key words: alveolitis, treatment, ointment, dental surgery, periodontitis, antiseptic properties, wound healing, postoperative complications.

Annotatsiya: Alveolitni davolash va oldini olish uchun mo'ljallangan yangi ishlab chiqilgan mazning samaradorligini baholash maqsadida tadqiqot o'tkazildi. Maz teri tirnash xususiyati keltirib chiqarish xavfining pastligi bilan birga yuqori yopishqoqlik qobiliyati, eksudatni samarali singdirish hamda faol komponentlari tufayli yaqqol antiseptik xususiyatlarga ega ekanligi bilan tavsiflandi. Klinik tadqiqotda 25–60 yoshdagi o'tkir alveolit tashxisi qo'yilgan 116 nafar bemor ishtirok etdi, ularda asosiy qo'zg'atuvchi omillar surunkali parodontitning zo'rayishi va murakkab stomatologik aralashuvlar bo'ldi.

Kalit so'zlar: alveolit, davolash, maz, stomatologik jarrohlik, parodontit, antiseptik xususiyatlar, yara bitishi, operatsiyadan keyingi asoratlilar.

Аннотация: Проведено исследование по оценке эффективности новой мази, предназначенной для лечения и профилактики альвеолита. Мазь характеризовалась низким риском кожного раздражения, высокой адгезивной способностью, эффективным поглощением экссудата и выраженными антисептическими свойствами благодаря активным компонентам. В клиническом исследовании приняли участие 116 пациентов в возрасте 25–60 лет с диагнозом острый альвеолит, у которых основными провоцирующими факторами являлись обострения хронического пародонтита и сложные стоматологические вмешательства.

Ключевые слова: альвеолит, лечение, мазь, стоматологическая хирургия, пародонтит, антисептические свойства, заживление раны, послеоперационные осложнения.

INTRODUCTION

One of the most common and challenging postoperative complications in outpatient oral surgery is alveolitis, also known as “dry socket” (alveolar osteitis). Depending on the complexity of the procedure and the patient's individual risk factors, the incidence of alveolitis after the extraction of permanent teeth, particularly mandibular third molars, ranges from 3% to 30%. The condition is characterized by intense radiating pain, delayed wound healing, and early dissolution of the intra-alveolar blood clot, which exposes the alveolar bone. These factors significantly impair the patient's quality of life and require multiple follow-up visits. Alveolitis has a multifactorial etiology that includes surgical trauma, bacterial fibrinolysis, and compromised local vascularization. Despite advances in surgical techniques, primary management of this condition still largely relies on local pharmacological intervention. Current therapeutic approaches include the use of various pastes or gels, analgesic dressings, and antiseptic irrigation. However, many commercially available treatments have limita-



tions, such as short duration of action, potential tissue irritation, or the inability to provide both comprehensive antibacterial and regenerative effects simultaneously.

In recent years, targeted topical formulations containing antibacterial, anti-inflammatory, and osteoregenerative components have been developed to address these shortcomings. Ointment-based delivery systems are particularly advantageous in the oral cavity due to their mucoadhesive properties, which allow sustained release of active substances directly within the extraction socket. The purpose of this study is to evaluate the therapeutic effectiveness of a newly developed ointment intended for the treatment and prevention of alveolitis. The study aims to determine whether this novel formulation provides superior therapeutic outcomes compared to conventional treatment protocols by analyzing parameters such as pain reduction kinetics, the rate of granulation tissue formation, and prevention of secondary infection.

LITERATURE REVIEW

Among the most serious complications following tooth extraction are infectious processes affecting the bone wound and adjacent soft tissues (periodontitis, phlegmon), as well as neurological disorders and inflammation in the area of the extracted tooth (alveolitis). In this context, the search for effective methods for the treatment and prevention of these complications remains an urgent task in modern dentistry. Currently, several approaches are available for the treatment and prevention of alveolitis after tooth extraction. For postoperative recovery, allogeneic placental tissue may be used, shaped to match the size and configuration of the bone defect. This method accelerates healing and reduces the risk of alveolitis. Alternatively, hydrophobic ointments containing antiseptics or antibiotics (erythromycin, ditetracycline, gentamicin) are used for treatment and prevention. However, these methods present several challenges, including inadequate adhesion of medicinal substances to the socket walls, leading to rapid washout by saliva and blood, as well as pronounced local irritation. Within the framework of this research, the development and clinical validation of an ointment for the treatment and prevention of alveolitis were undertaken. The ointment is characterized by low local irritative activity while demonstrating high adhesion, sorption capacity, and antiseptic properties determined by the characteristics of its key components.

RESEARCH METHODOLOGY

The study included 116 patients aged 25 to 60 years diagnosed with acute alveolitis. During treatment, 124 teeth were extracted. The predominant factors contributing to the development of alveolitis were acute exacerbation of chronic periodontitis and the complexity of the extraction procedure. Patients were divided into two groups: the main group comprised 75 patients (60.4%), and the control group comprised 49 patients (39.6%). Patients in the main group were treated with a special ointment patented in Uzbekistan ("Ointment for the Treatment of Alveolitis"). The treatment protocol included local infiltration anesthesia, curettage of the affected area, irrigation of the socket with an antiseptic solution, and subsequent placement of the developed ointment into the surgical wound.

ANALYSIS AND RESULTS

The composition of the ointment included anesthesin for local anesthesia, a hemostatic component, an antiseptic, beta-tricalcium phosphate, Solcoseryl Dental Adhesive Paste (registration number 015194/01-2003), and an ointment base consisting of lanolin and petrolatum. The incorporation of "Polysorb MP" into the ointment significantly enhanced its hemostatic properties. Solcoseryl Dental Adhesive Paste promoted rapid wound healing, provided analgesia, and protected damaged tissues; furthermore, it ensured reliable adhesion of the medicinal components to the walls of the extraction socket. Anesthesin, characterized by low toxicity, hypoallergenicity, and effective local anesthetic action, ensured patient comfort during the procedure. The lanolin–petrolatum base softened and stabilized the overall composition, contributing to its structural integrity. Beta-tricalcium phosphate accelerated regeneration and stimulated bone tissue formation. The components were mixed according to the prescribed formulation on a sterile surface and subsequently applied to the wound site, which was then covered with a collagen sponge. The ointment and sponge dissolved naturally within 3-4 days. In the control group, following anesthesia, the socket was curetted, treated with medications, and packed with iodoform gauze.

The treatment regimen also included sulfonamides, analgesics, and physiotherapeutic procedures (UHF therapy and microwave therapy). The effectiveness of the therapeutic intervention was evaluated based on patient-reported outcomes, the number of clinical visits, and radiographic findings in both short-term and long-term follow-up periods. The study results demonstrated that 68% of patients presenting in the acute phase of alveolitis experienced complete pain relief within 24 hours. By the end of the second day, a significant reduction



in hyperemia and mucosal edema in the area of the alveolar sockets was observed. No signs of inflammation were detected in the study group. Wound healing occurred by primary intention, and complete epithelialization was achieved within 4-5 days. In the control group, the resolution of inflammation and pain required a longer period, necessitating replacement of gauze turundas every 2-3 days, with a total of 3-4 changes. The average number of clinical visits per patient in the study group was 2.8, compared to 5.1 in the control group. A three-year follow-up of long-term outcomes demonstrated that patients in the study group did not develop alveolar ridge atrophy following tooth extraction.

CONCLUSION

Conversely, a moderate degree of atrophy was noted in the control group. The research results demonstrate the high efficiency of the proposed ointment compared to existing treatment methods. Due to its pronounced anti-inflammatory and regenerative properties, the ointment promotes rapid healing of bone tissues and prevents the development of inflammatory complications. Based on the data obtained, the developed ointment can be recommended as a promising tool for the treatment and prevention of alveolitis.

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- 13.00.00 Pedagogika fanlari
 - 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
 - 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
 - 13.00.03 Maxsus pedagogika
 - 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
 - 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
 - 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
 - 13.00.07 Ta'limda menejment
 - 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
 - 13.00.09 Ijtimoiy pedagogika
 - 07.00.00 Tarix fanlari
 - 19.00.00 Psixologiya fanlari
 - 01.00.00 Fizika-matematika fanlari
 - 02.00.00 Kimyo fanlari
 - 03.00.00 Biologiya fanlari
 - 09.00.00 Falsafa fanlari
 - 10.00.00 Filologiya fanlari
 - 11.00.00 Geografiya fanlari



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