

# IMPROVING EFFECASY OF THE TREATMENT OF LONG-TERM COMPLICATIONS OF COMBINED SOFT TISSUE INJURIES OF MAXILLAFACIAL REGION WITH CONTRAKTUBEX

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**Abstract.** *Ultra-phonophoresis is one of its effective physiotherapeutic methods, widely used in the past. Allatation, extract of onion and heparin is considered very effective substance for the healing process of scars of maxillofacial region. So, using of ultraphonophoresis with Contractubex can be treated long term complications of combined maxillofacial injuries.*

**Keywords:** *ultraphonophoresis, kontraktubex, scarred tissue, rehabilitation. complications of combined soft tissue injuries, maxillofacial region.*

## INTRODUCTION

Ultraphonophoresis is one of the modern methods of treatment widely used today, in which the necessary drugs are often injected into the body through the skin using ultrasound waves. Ultraphonophoresis is an effective treatment method for improving blood circulation in pathological foci and treating secondary scars. Today, glucocorticoids and other hormonal agents are used as drugs. Joint injuries of the maxillofacial region lead to various consequences and complications, which can appear in the acute, subacute and late periods after the injury [7,8]. Despite the progress achieved in the field of reconstructive surgery in recent years, the treatment of complex defects and deformations caused by facial injuries remains problematic [5,7,10,12,13]. The effectiveness of the anti-scar drug Contractubex produced by the German MERZ PHARMA company, which contains active ingredients such as sodium heparin, onion extract and allatoin, was analyzed in the treatment of late deformational complications with scars [2,10,11]. As a result, it is very important to predict and adequately study the pathogenetic features of their treatment and to improve their quality of life.

In addition, infrared thermometry was used to predict the course of inflammatory processes in the wound area and scar deformation complications. For this, this effective method was used to measure the local temperature at the desired points in the maxillofacial region.

## THE PURPOSE OF THE STUDY

It consists in the development and implementation of modern treatment and rehabilitation methods that increase the effectiveness of treatment of scar deformation complications of joint injuries of the maxillofacial region.

## MATERIALS REVIEW AND METHODS

During the study, 168 patients were treated in inpatient and outpatient departments of the multidisciplinary clinic of the Tashkent Medical Academy, Samarkand City Medical Association, and the Samarkand Branch of the Republican Specialized Traumatology and Orthopedic Scientific and Practical Medical Center in 2019 and 2023 with complications of maxillofacial joint injuries.

(17 years and older) treated patients were recruited. Among these 36.3% patients were admitted to the hospital using traditional treatment methods, and the remaining 63.7% were treated with scar deformation complications of the face-jaw area by ultraphonophoresis with the help of our recommended anti-scar drug "Contraktubex". Patients included in the study were divided into 3 groups:

In the first control group, patients with complications of facial-jaw soft tissue joint injuries were treated conventionally;

in the second main group, the same patients were treated with ozone and low-intensity laser rays;

and the third group included patients who underwent ultraphonophoresis with the help of Contraktubex (Contraktubex) anti-scar drug.

### **DISCUSSION OF THE STUDY**

In this case, patients were treated with a continuous 880 kHz frequency intensity of 0.2 W/cm<sup>2</sup> for 5-6 minutes, a total treatment course consisting of 8-10 treatments. The allothion active agent contained in Kontraktubex (Contraktubex), which is used as a medicine, softens the scars and helps them to be covered with epithelial cells, heparin improves blood circulation in the tissues by dilating the vessels, and has demonstrated a fibrinolytic effect when applied locally. It was found that onion extract reduces the inflammatory process and has an antiproliferative effect. It was also found that contractubex accelerated cell regeneration without hyperplasia and inhibited the proliferation of keloid fibroblasts. As a result of the treatment, the clinical appearance of the patients improved by 40% on 7-14 days after ultraphonophoresis with Contractubex. Later, at 8-14 weeks of the disease, keloid scar tissue on the face was reduced by 30% again, and this showed the effectiveness of conservative treatment. In addition, it was found that the height of the scars decreased by 0.3 cm after the fourth and fifth treatment of patients who underwent ultraphonophoresis with kontrak-tubex ointment. It was also found that the color of the scar tissue is getting closer to the skin color. The reduction of newly identified scars after continuous (8-11 months) conservative treatment in patients indicated the effectiveness of this conservative treatment. Treatment results are based on the following indicators: reduction of complaints; restoration of working capacity; reduction and disappearance of facial deformities and scars were assessed.

**CONCLUSION** It should be noted that the effectiveness of the drug "Contraktubex", which is used for the comprehensive treatment and rehabilitation of scar deformation complications acquired as a result of joint injuries of the soft tissues of the face-jaw area, was found to be highly effective. This has shown a high socio-economic impact on the prevention of injury complications and their effective rehabilitation. But preventing the complications of the disease and predicting their occurrence in advance gives a much more positive result than the treatment of negative consequences.

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