

# IMPROVING ORTHODONTIC AND ORTHOPEDIC CARE FOR PATIENTS WITH EXTRAORAL PATHOLOGIES WHO HAVE UNDERGONE RADIATION THERAPY

**Kudrat-Zoda Kamola Alisherovna**

**Djurayeva Mukhlisa Abduvohidovna**

Samarkand State Medical university , Samarkand, Uzbekiston

## **Abstract**

Subject. To improve the quality of life for patients who have undergone extensive oncological surgeries in the maxillofacial region, a step-by-step prosthetic approach is implemented. The development of materials that closely mimic living tissues has led to significant advancements in facial prosthetics over recent decades. Siloxanes are among such prominent materials. Experimental and clinical studies conducted by the Central Research Institute of Prosthetics have demonstrated that silicone prostheses are biologically inert, maintain their shape, and do not lose their elasticity or durability. Currently, rapid prototyping and 3D modeling technologies are being actively integrated into this field.

**Keywords:** rehabilitation, oncology, maxillary defect, combined defects, forming prosthesis, facial prostheses.

## **Materials and Methods**

A clinical observation was conducted involving 40 patients treated in the Orthopedic Tumors Department for malignant neoplasms of the maxillofacial region.

## **Research Results**

Maxillofacial prosthetics allowed for the complete restoration of facial deformities, as well as the functions of mastication (biting), deglutition (swallowing), and articulation

(speech). Furthermore, these interventions significantly improved the aesthetic appearance of the patients.

## **Conclusion**

The primary objective of the comprehensive rehabilitation measures is to provide timely and multi-faceted orthopedic treatment for patients who have undergone extensive surgical procedures for malignant tumors and present with postoperative defects in maxillofacial tissues.

## **Reference**

1. Makhmudova Maftuna Mehrojovna, & Rayimqulova Ch.A. (2025). The Range of Medicines in The City of Samarkand: A Marketing Analysis. European International Journal of Multidisciplinary Research and Management Studies, 5(05), 79–82. Retrieved from <https://inlibrary.uz/index.php/eijmrms/article/view/108086>
2. Mehrojovna M. M. et al. The Range of Medicines in The City of Samarkand: A Marketing Analysis //European International Journal of Multidisciplinary Research and Management Studies. – 2025. – T. 5. – №. 05. – C. 79-82.
3. Mehrojovna M. M. et al. The Range of Medicines in The City of Samarkand: A Marketing Analysis //European International Journal of Multidisciplinary Research and Management Studies. – 2025. – T. 5. – №. 05. – C. 79-82.
4. Makhmudovna T. M. et al. THE COURSE OF MALFORMATION AND CORNEAL EROSION IN TUBERCULOSIS PATIENTS //Open Access Repository. – 2023. – T. 4. – №. 03. – C. 60-66.
5. Qobilovna B. Z., Nodirovich E. A. EVALUATION OF ORTHOPEDIC TREATMENT WITH REMOVABLE DENTAL PROSTHESES FOR PATIENTS WITH PAIR PATHOLOGY //Spectrum Journal of Innovation, Reforms and Development. – 2023. – T. 11. – C. 95-101.

6. Anvarovich E. S., Qobilovna B. Z. INFLUENCE OF DIFFERENT TYPES OF RETRACTION THREADS ON THE DEGREE OF GINGI RECESSION //Spectrum Journal of Innovation, Reforms and Development. – 2023. – T. 11. – C. 84-86.
7. Tohirovna M. L., Qobilovna B. Z. Optimization of Complex Methods Treatment of Inflammatory Periodontal Diseases //Eurasian Research Bulletin. – 2023. – T. 17. – C. 138-143.
8. Shoxrux S., Shoxrux I., Faxriddin C. PREVENTION AND TREATMENT OF ORAL INFECTIONS IN DENTURE WEARERS //International Journal of Early Childhood Special Education. – 2022. – T. 14. – №. 4.
9. Bakhtiyorovna M. U. Causes of removable denture breaks and allergic reactions //Spectrum Journal of Innovation, Reforms and Development. – 2022. – T. 10. – C. 374-377.
10. Makhmudova U. B. The Effectiveness Of The Use Of Parapulpar Pins (Ppp) When Restoring Defects In The Crown Part Of The Frontal Teeth //Asian journal of pharmaceutical and biological research. – 2022. – T. 11. – №. 2.
11. МЕЛИБАЕВ Б. А. МАХМУДОВА УБ ЭФФЕКТИВНОСТЬ ПРИМЕНЕНИЯ ПАРАПУЛЬПАРНЫХ ШТИФТОВ (ППШ) ПРИ ВОССТАНОВЛЕНИИ ДЕФЕКТОВ КОРОНКОВОЙ ЧАСТИ ФРОНТАЛЬНЫХ ЗУБОВ //ЖУРНАЛ БИОМЕДИЦИНЫ И ПРАКТИКИ. – 2022. – Т. 7. – №. 1.