

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

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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.

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