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The use of digital technologies to improve effectiveness of aesthetic restoration of anterior teeth

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Statement of the Problem: Direct adhesive strategies are the most commonly used treatment methods for the conservative repair of the anterior teeth defect. Despite numerous scientific publications on the topic of aesthetic restoration of anterior teeth, the issues of choosing the optimal restoration method are relevant and require a comprehensive long-term study.

Objectives: Clinical evaluation of the effectiveness of the aesthetic restoration of the anterior teeth use of digital technologies

Materials and Methods: The study included 67 adult patients in need of aesthetic restoration of the anterior teeth. Digital information about the patient's teeth surrounding the soft tissues was captured by a digital camera and scanner. Aesthetic analysis and design were performed using 3shape software and demonstrated to patients. Through communication with patients, an optimized treatment plan was provided. After the aesthetic restoration, the design, color of the restoration, and patient satisfaction were evaluated. Aesthetic evaluation was performed according to the form of anterior aesthetic evaluation. Patient satisfaction scores were recorded on a questionnaire containing six items of aesthetic index and doctor-patient communication. Patients were interviewed and reviewed at 1, 3, 6 and 12 months, respectively, and the clinical effects of the restorations were assessed.

Results: Aesthetic defects of patients were effectively eliminated using a minimally invasive approach to the restoration protocol for the restoration of anterior teeth with a composite material using adhesive systems. All procedures met the requirements of preoperative digital design. Patients had satisfactory clinical results.

Conclusions: Proper choice of indications, accurate design of the restoration, contributes to a satisfactory aesthetic restoration of the anterior teeth. For patients with anterior aesthetic defect, digital design plays an important role in optimizing the treatment plan and guiding the entire treatment process. This design can help clinicians achieve predictable, satisfactory esthetic results.

Recent publications

1. Ruslan Gazaryan et al (2021). Efficiency of Implant-Prosthetic Rehabilitation in Patients with Short Implants Placed in Atrophic Posterior Mandible, 5 Years Results of a Prospective Single-Center Study. Saudi J Oral Dent Res, 6(9): 389-39

Biography

Ruslan Gazaryan is a dedicated General Dentist currently practicing at Tat Dental Clinic in Yerevan, Armenia. His journey in the field of dentistry is marked by a commitment to excellence and a passion for providing top-notch dental care to his patients.

Ruslan embarked on his educational journey in 2003 when he enrolled at Yerevan State Medical University after Mkhitar Heratsi, one of Armenia's prestigious medical institutions. Over the course of five years, from 2003 to 2008, he diligently pursued his studies, building a solid foundation in the medical sciences.

His dedication to dentistry led him to pursue a Clinical Residency program at Yerevan State Medical University after Mkhitar Heratsi from 2009 to 2011. During this period, Ruslan honed his skills in General Dentistry, gaining valuable clinical experience and expertise in a wide range of dental procedures.

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