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In this study, changes in the oral microflora during treatment were studied in 41 patients with lower jaw fractures. Patients were divided into 2 groups. Group 1 patients underwent bimaxial splinting and osteosynthesis surgery using a titanium miniplate and screws with an extra-oral incision. In group 2 patients,

titanium miniplates and screw jaw fixation sites were identified based on 3D modeling prior to surgery. Intraoral osteosynthesis was performed.

Keywords: microflora, osteosynthesis, fracture, lower jaw bone, 3D modeling, titanium miniplate, minivint, row of teeth, treatment.

A PROTOCOL FOR DIGITAL PLANNING AND IMMEDIATE LOADING OF SINGLE IMPLANTS

Boyan Pavlov¹, Angelina Vlahova², Ivan Chenchov³, Viktor Hadzhigaev⁴, Stefan Zlatev⁵

¹ Assistant Professor, Department of Prosthetic Dentistry, Faculty of Dental Medicine, Medical University – Plovdiv,

² Professor, Head of the Department of Prosthetic Dentistry, Faculty of Dental Medicine, Medical University – Plovdiv

³ Associate Professor, Chief of the Center of Dental Implantology, Department of Oral Surgery, Faculty of Dental Medicine, Medical University – Plovdiv

⁴ Assistant Professor, Department of Prosthetic Dentistry, Faculty of Dental Medicine, Medical University – Plovdiv

⁵ Chief Assistant Professor, Chief of the CAD/CAM Center, Department of Prosthetic Dentistry, Faculty of Dental Medicine, Medical University – Plovdiv

Introduction. Planning and placing of dental implants in an optimal position is extremely important for their stability^{1,2,3} and the longevity of the implant-supported restorations^{4,5,6}.

Aim. The aim of this study is to present a protocol for digital planning, guided implantation of single implants and their immediate loading.

Materials and methods. TRIOS Intraoral Scanner, Computer Tomograph ProMax 3D, Planmeca, 3Shape Implant Studio Software, 3D Printer Formlabs and CAM S2-Impression, VHF 5-axis milling machine were used for the clinical protocol. Intraoral scans and CBCT were imported in the software for implant

planning. The optimal position of the implant was chosen according to the bone anatomy (from the CBCT), the mucosa (from the digital impressions) and the shape of the future virtual crown (created in the 3Shape Implant Studio Software) (Fig. 1). A surgical guide was designed (Fig. 2) and made by 3D printing (Fig. 3 and 4). A temporary crown for immediate loading was fabricated before the operation (Fig. 5 and 6). The implantation was performed by guided surgery (Fig. 7) with Alpha Bio Guided Surgery Tool Kit and the precision of the digital planning was checked via the adaptation of the crown to the implant platform, the adjacent teeth and the antagonists (Fig. 8).

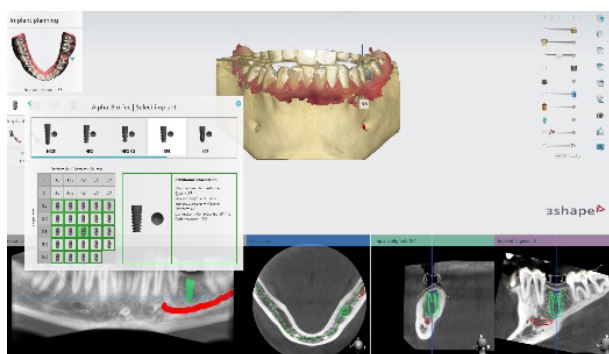


Fig. 1. Implant planning.

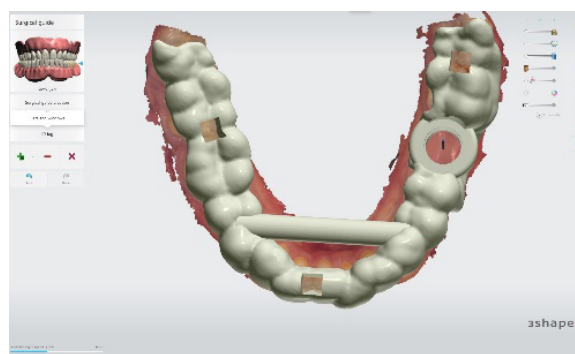


Fig. 2. Surgical guide design.

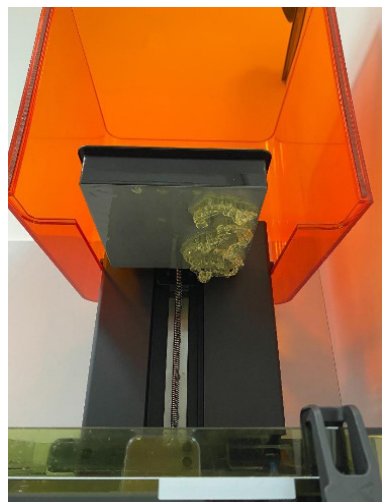


Fig. 3. 3D printing.



Fig. 4. Post-polymerization.

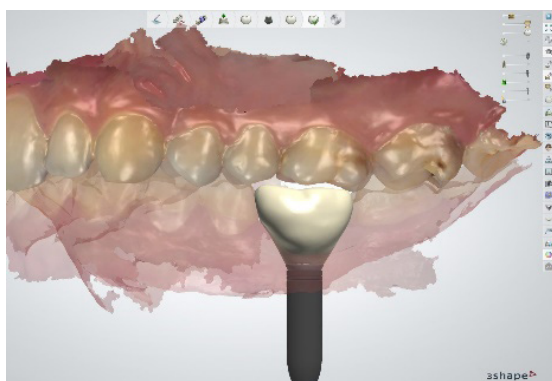


Fig. 5. Crown design.



Fig. 6. Screw-retained crown.



Fig. 7. Guided implantation.



Fig. 8. Immediate loading.

Results and discussion. A precise implant positioning was evaluated. An immediate loading was performed. As expected the digital implant planning created predictable results^{7,8,9,10,11,12}.

Additional 39 patients will be treated and investigated according to this clinical protocol during a scientific project of Medical University-Plovdiv.

Conclusion. The analysis of all stages is meant to create a clinical protocol for guided surgery placing and immediate loading of single implants.

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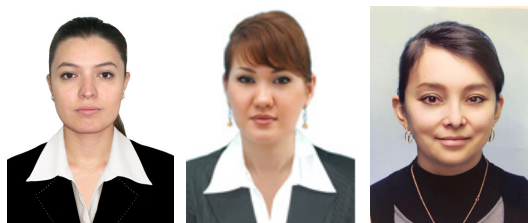
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ОЦЕНКА КАЧЕСТВА ЖИЗНИ В ЗАВИСИМОСТИ ОТ МЕТОДА ИНДИВИДУАЛЬНОЙ ГИГИЕНЫ ПОЛОСТИ РТА У БОЛЬНЫХ, ПРОТЕЗИРОВАННЫХ С ОПОРОЙ НА ДЕНТАЛЬНЫХ ИМПЛАНТАХ



Обидова И.К., Ризаева С.М., Алиева Н.М.

Ташкентский государственный стоматологический институт

В настоящее время в реабилитации стоматологических пациентов с частичной или полной адентией широко распространено комплексное лечение с использованием дентальных имплантатов. Объясняется это тем, что в результате протезирования с опорой на дентальные имплантаты осуществляется

полноценное в сравнении с другими видами ортопедического лечения восстановление функции зубочелюстной системы, речевой функции и, что немаловажно, эстетической функции [1,4,5]

Для эффективного протезирования с помощью дентальных имплантатов вторичной полной или частичной адентии необходимо воссоздание