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Sagemax experience

NexxZr T Multi & Paint 3D
monolithic by Dr. Gonzalo
Perea & Michał Nytko



INTERCONTINENTAL TEAMWORK

NexxZr T Multi & Paint 3D monolithic
by Dr. Gonzalo Perea & Michał Nytko

Sagemax experience

Clinical treatment at Gonzalo Perea's practice in Mexico



Dr. Gonzalo Perea

Initial Patient Situation

The patient presented with missing teeth #11 and #21 (FDI system) following trauma. In addition, an esthetically insufficient four-unit bridge combined with significant bone loss complicated the conventional implant treatment planning. Several existing metal-ceramic restorations also required replacement.

The existing restorations negatively affected the smile line, facial reference lines, tooth proportions, and the contour of the gingival papillae. Therefore, the primary treatment goal was not only functional rehabilitation, but also the esthetic harmonization of the lower third of the face.





Initial esthetic situation of the patient, presenting a highly unsatisfactory condition from an esthetic perspective.



Removal of the existing restorations and tooth preparations according to modern adhesive protocols. Shade selection of the gingival and tooth color.

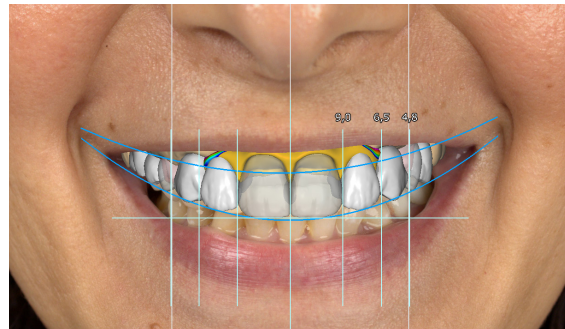
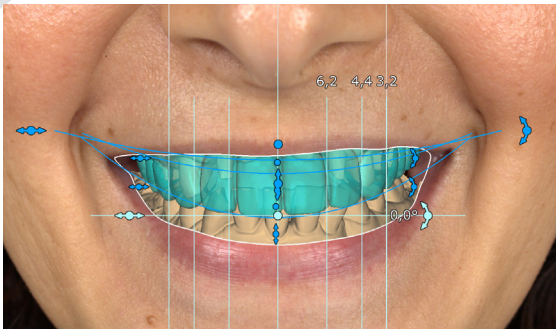
Fabrication of the dentures at Michał Nytko's laboratory in Poland



Michał Nytko

Planning and Design in Exocad

Following case analysis and close collaboration with the clinician, the digital workflow was initiated using the Exocad Smile Creator module. By integrating CBCT data, STL files of the skull and mandible were generated, refined, and combined with the pre- and post-preparation models. This enabled highly precise positioning of the smile design and the virtual articulator based on the patient's anatomical reference points.



Visualization of the Final Result

Using Smile Creator, an AI-assisted visualization of the planned outcome was generated directly on the patient photograph, allowing the patient to evaluate the esthetic result before treatment. Defined reference lines ensured predictable tooth positioning and revealed areas requiring additional preparation for further optimization.

Special attention was given to preparation margins, transitions, cement space, pontic pressure on the soft tissue, and the harmonious integration into the facial reference lines. The main challenge was achieving ideal tooth proportions while maintaining a natural gingival contour.

Zirconia Fabrication

The restorations were milled from a NexxZr T Multi A1 disc (Sagemax) using an imes-icore 250i dry milling machine. Correct disc height selection and precise positioning within the multilayer structure were essential to achieve the ideal balance of shade intensity and translucency.

In the green-stage condition, separations were refined, surface textures enhanced, and microanatomical details such as crack lines and developmental ridges were incorporated. Due to the approximately 22% shrinkage during sintering, these details appeared naturally softened in the final restorations.



Fabrication of the dentures at Michał Nytko's laboratory in Poland

Characterization – Paint 3D

Following sintering, the restorations were finalized esthetically using the Paint 3D system from Sagemax. Initial staining of both the coronal and gingival areas created depth and contrast, followed by a first firing to fix the colors and textures.

A second firing was performed after applying the glaze materials: a conventional glaze for the coronal area and a texture glaze for the gingival portion. Despite its high viscosity, the texture glaze enabled a highly realistic reproduction of natural gingiva. Final surface refinement with brushes and sponges created subtle soft-tissue microtextures and natural light dynamics.

All areas in direct contact with soft tissue were polished to a high gloss using the Sagemax Shining Kit, resulting in a smooth, biologically safe, and hygienic surface.





Insertion of dentures at Gonzalo Perea's practice in Mexico

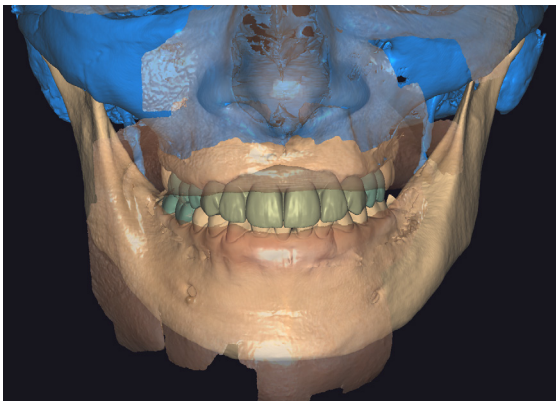


Dr. Gonzalo Perea

Final Cementation and Clinical Outcome

In the final step, a total of seven crowns and one six-unit bridge were cemented using state-of-the-art adhesive protocols from Ivoclar and a high-performance VALO curing light, achieving excellent passivity and biological integration.

The clinical outcome was exceptional. The patient's immediate emotional response highlighted that technological innovation should always serve people first.



The final result was flawless. The restorations blended seamlessly with the patient's natural features, achieving excellent functional and esthetic integration.



Summary



Today, artificial intelligence and modern digital technologies are becoming an essential part of the future of dentistry. This interdisciplinary collaboration between Mexico and Poland demonstrates how precise digital workflows, modern materials, and efficient communication can overcome geographical boundaries and enable highly esthetic, predictable results.


The combination of NexxZr T Multi and Paint 3D from Sagemax allowed the creation of a natural, biologically harmonious restoration with lifelike depth and functionality. The patient's emotional reaction after treatment ultimately confirmed the success of the rehabilitation and highlighted how modern digital dentistry continues to redefine esthetic excellence.




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