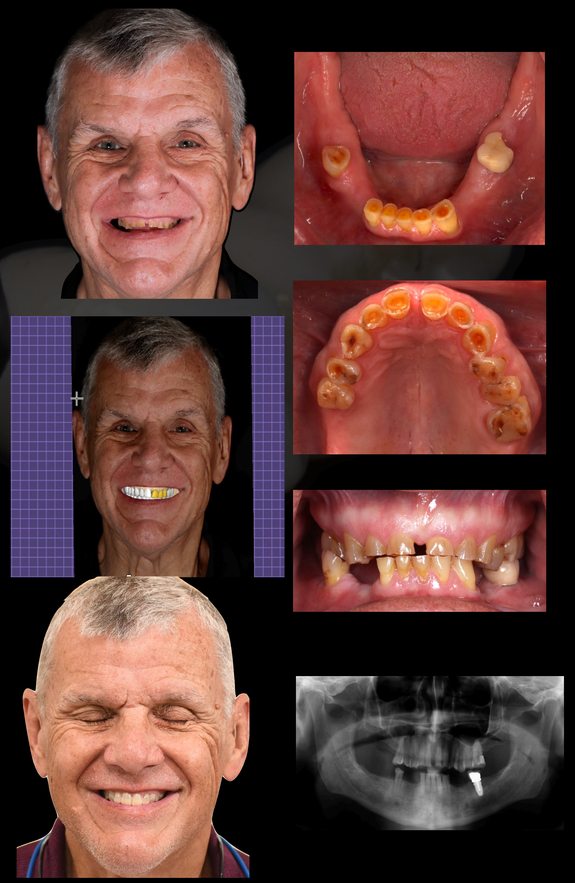
Interdisciplinary Full-Mouth Rehabilitation Utilizing a Digitally Driven Workflow: A Clinical Case Report

References

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Purpose: To present an interdisciplinary full-mouth rehabilitation using a fully digital workflow integrating guided surgery, periodontal procedures, and definitive prosthetics to re-establish esthetics, function, and occlusal stability in a patient with worn dentition.

Pre treatment

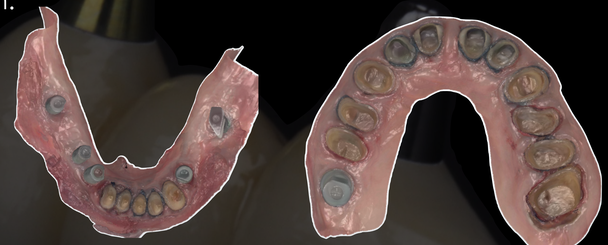


Treatment

Methods: A middle-aged patient exhibited generalized severe attrition, Erosion, reduced vertical dimension of occlusion (VDO), and esthetic compromise. Digital smile design guided the ideal tooth proportions and incisal edge position. Periodontal crown lengthening was performed using a 3D-printed surgical guide based on prosthetically driven planning and biologic width parameters.Following tissue maturation, Custom cast post-and-core restorations were fabricated in Type IV gold alloy for structurally compromised abutments. Edentulous sites were restored with Straumann implants placed using a computer-guided approach. Final restorations consisted of monolithic zirconia crowns. All restorations were fabricated through a CAD/CAM workflow.



Results: The interdisciplinary digital approach facilitated precise treatment sequencing, optimized esthetic and functional outcomes, and minimized chairside adjustments. The occlusal scheme was mutually protected canine guidance was established on the left side and a mutually protective occlusal with group function on the right side. Patient satisfaction with function, phonetics, and esthetics was high.



Conclusion: This case demonstrates the clinical efficacy of a fully digital, interdisciplinary workflow in complex full-arch rehabilitations. The integration of digital planning, advanced materials, and team-based care enhanced surgical and prosthetic predictability while supporting biologic and functional longevity.

