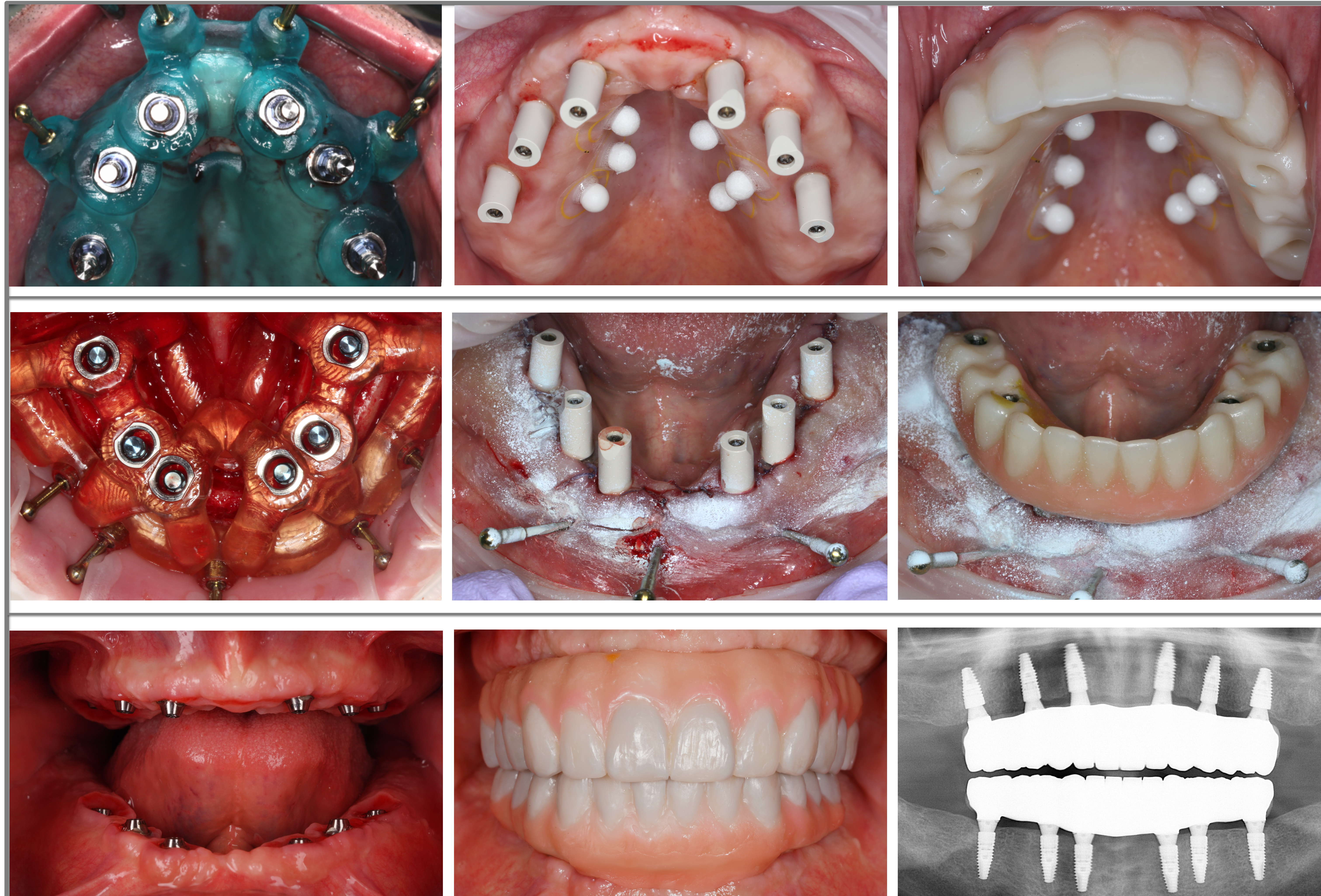


Materials and Methods: A 65-year old male presented with a chief-complaint of poor retention and stability of his complete dentures with consequent discomfort and inability to chew. After comprehensive diagnostic work-up, new interim complete dentures restoring function and esthetics were made prior to digital implant planning. After digital planning, template-guided implant placement protocol with the "All-on-6" concept was used for both the maxilla and mandible. Six dental implants were placed, followed by immediate loading with the conversion prosthesis, providing the patient with immediate function. After 2 months of uneventful healing and confirmation of osseointegration, a novel 3-visit protocol from implant impression to definitive prosthesis insertion was implemented. At the first visit, intraoral digital impressions, fabrication of verification jigs, and interocclusal records were obtained. An innovative double digital scanning (DDS) technique facilitated the accurate superimposition of STL files from digital impressions for the fabrication of the prostheses prototypes with a complete digital workflow. During the second clinical visit, the PMMA prototype try-in was performed and minor adjustments were made. The third visit included the insertion of the definitive monolithic zirconia prostheses.

Aim: The purpose of this case report is to present an innovative prosthodontic protocol that reduces overall treatment time and complexity in double full-arch rehabilitation for edentulous patients via a complete digital workflow.

Results: The patient was satisfied with the esthetic and functional outcome and was enrolled in a 6-month recall program.



Conclusions: Complete digital workflow was made feasible with an innovative DDS technique that facilitated the accurate superimposition of STL files from digital impressions for fabrication of the prosthesis prototypes in a cast-free approach.

Reference: Papaspyridakos P, Chen YW, Gonzalez-Gusmao I, Att W. Complete digital workflow in prosthesis prototype fabrication for complete-arch implant rehabilitation: A technique. J Prosthet Dent 2019;122:189-192.