BACKWARD PLANNING DIGITAL PROTOCOL FOR FULL MOUTH REHABILITATION

Full mouth rehabilitation is a critical aspect of modern dentistry, aiming to restore both function and aesthetics to patients with complex dental issues. Digital technologies have revolutionized the field of dentistry, offering new possibilities for treatment planning and execution. This article presents a digital protocol for full mouth rehabilitation leveraging intraoral scanning, 3D smile design, 3D printing and presents how we can make the treatment starting from the end results backward.

35 years old male came to our office with dissatisfaction of his smile. In initial phase we used intraoral scanning with Heron IOS, 3DISC to capture the current state of the patient's dentition. This data was then used to create a 3D smile design, allowing for a detailed analysis of the proposed changes and the visualization of the final outcome. A 3D model was printed to provide a physical representation of the planned rehabilitation, and mock up was done enabling the patient to preview the expected results. Subsequently, the patient underwent preparation through the mock-up, facilitating precise adjustments and refinements. Digital impressions were taken to capture the final tooth preparations accurately. Single monolithic zirconia crowns were fabricated ensuring high-quality restorations with excellent esthetics and durability.

With advanced digital tools, clinicians can achieve accurate planning, efficient execution, and superior esthetic results in full mouth rehabilitation. However, challenges such as equipment cost, training requirements, and learning curve need to be considered when adopting these technologies in clinical practice. Further research is warranted to evaluate the long-term success and patient satisfaction with digitally planned full mouth rehabilitation.