

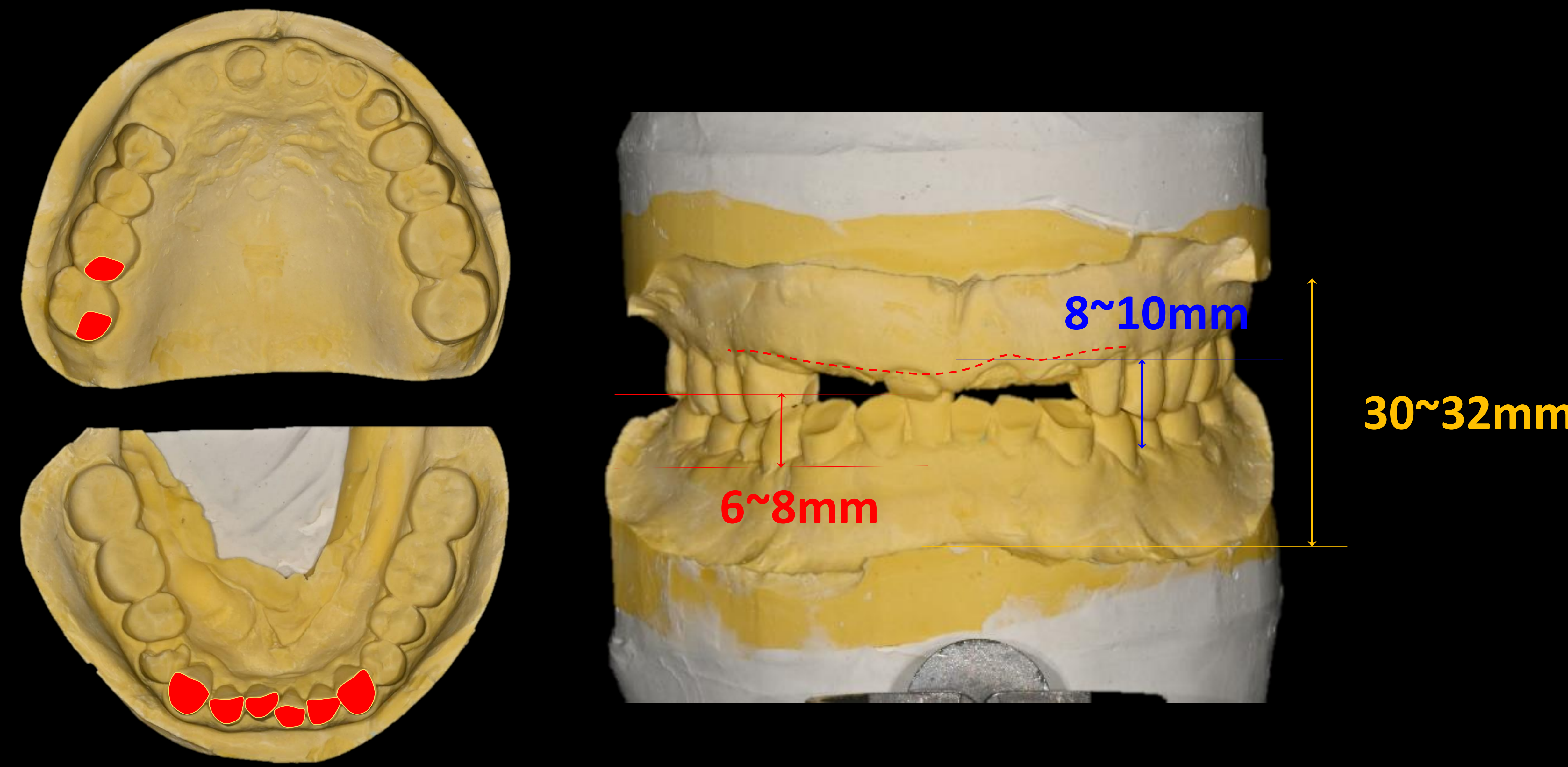


Restoration of maxillary anterior implants using digital jaw motion analyzer : A case report

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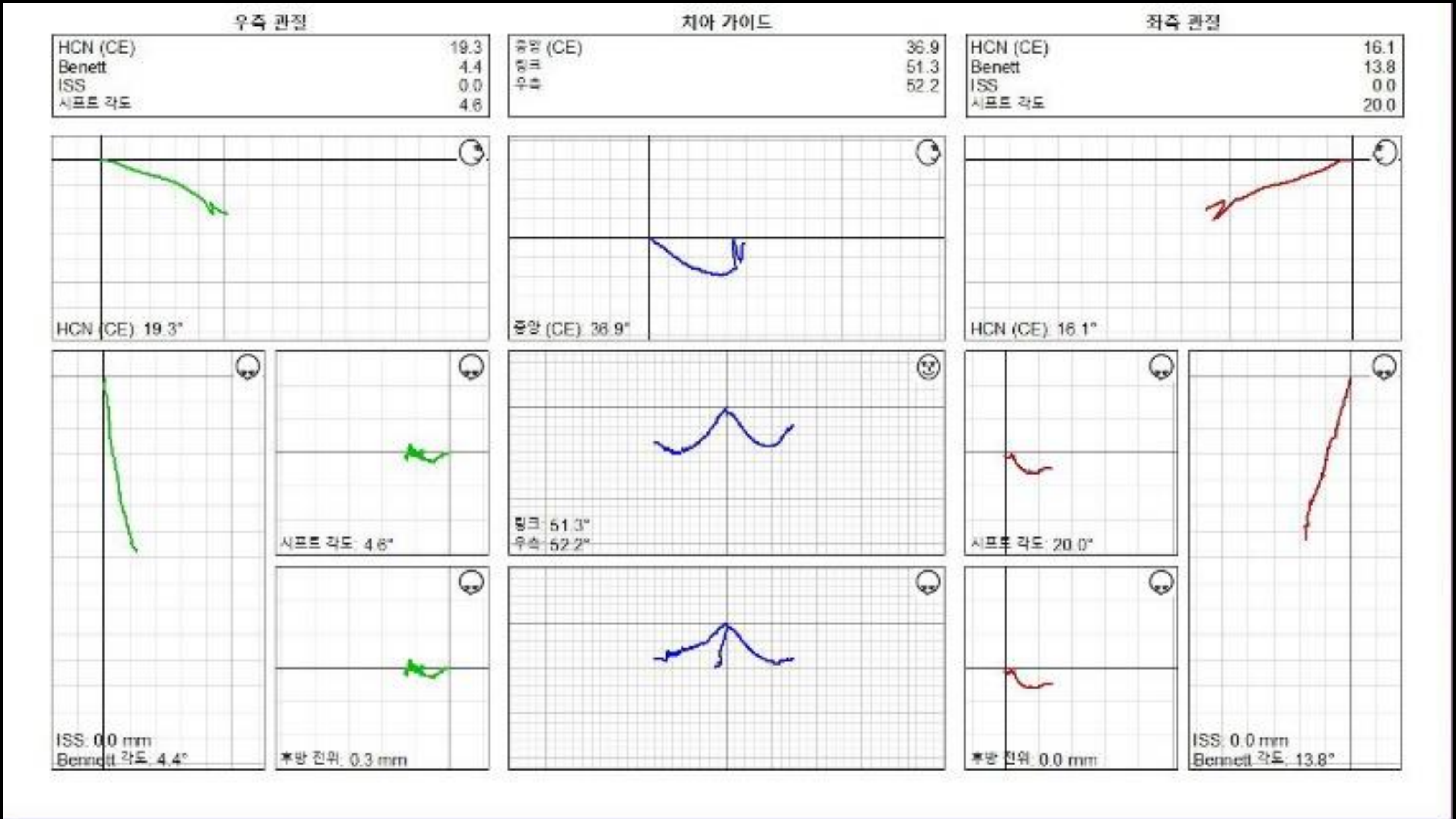
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Evaluation of vertical dimension



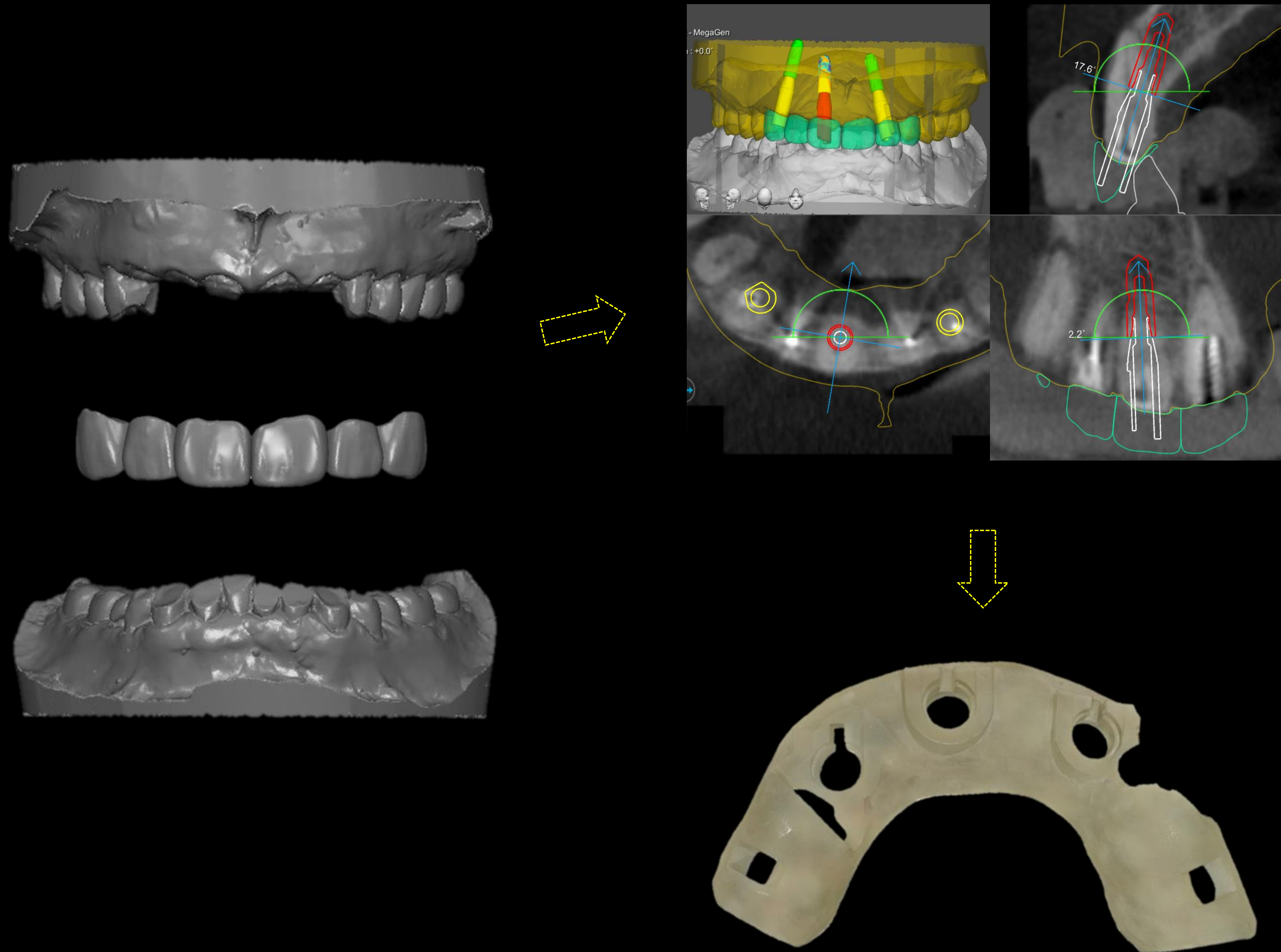
	Normal range	Measured value
Interocclusal distance	2 ~ 4 mm	3 mm
Intervestibular distance	38 ~ 42 mm	30 ~ 32 mm
Ant. Teeth length	Mx : 8 ~ 10 mm Mn : 8 ~ 9 mm	Mx : 8 ~ 10mm Mn : 6 ~ 8mm
Pattern of wear	Non-pathologic	Non-pathologic(posterior)

Transferring condylar and anterior guidance (Arcus Digama 2, KaVo, Germany)

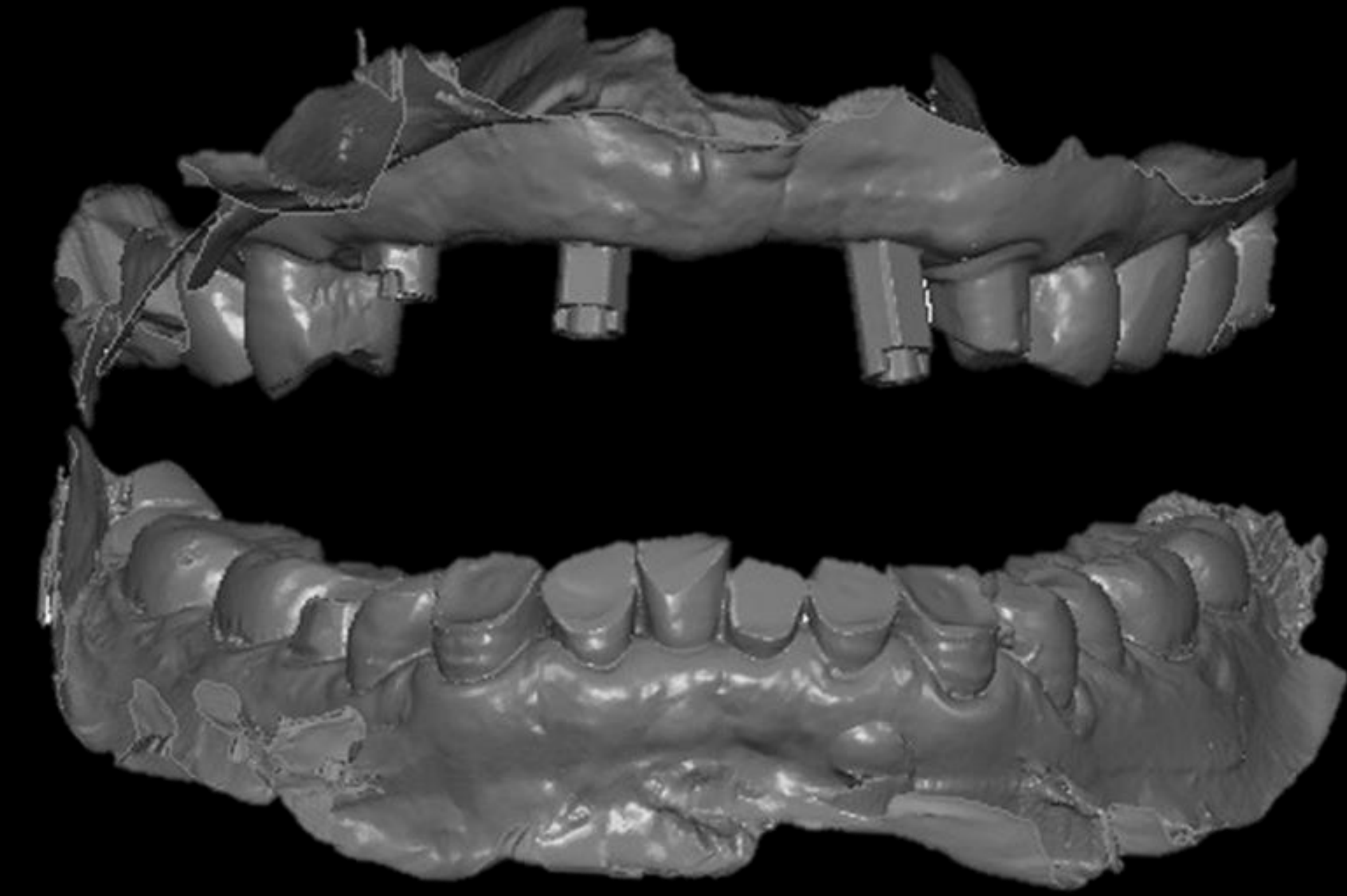


Treatment Progress

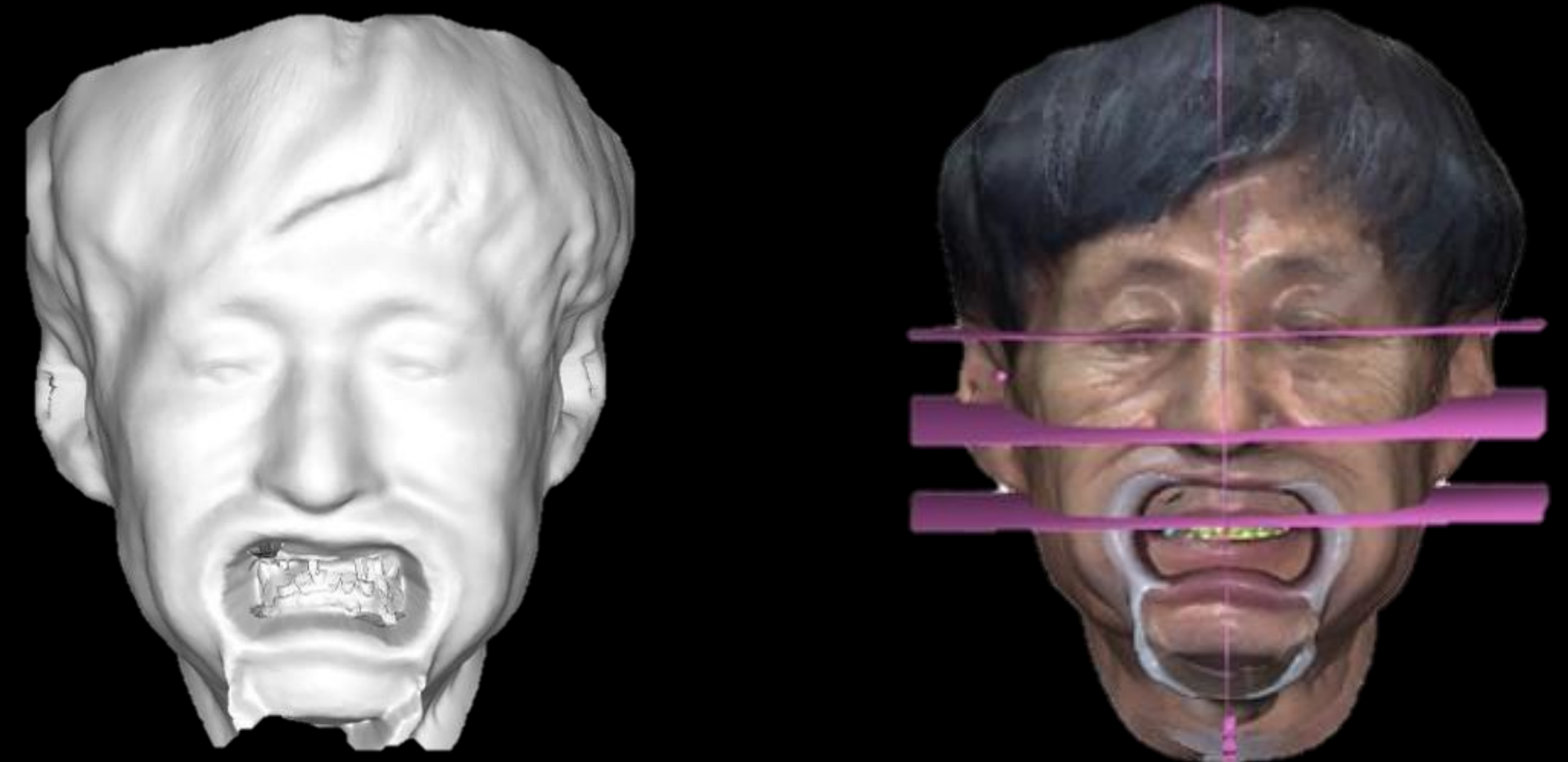
■ Digital wax-up & Designing Surgical Guide (R2 Gate, Megagen Imp., Daegu, South Korea)



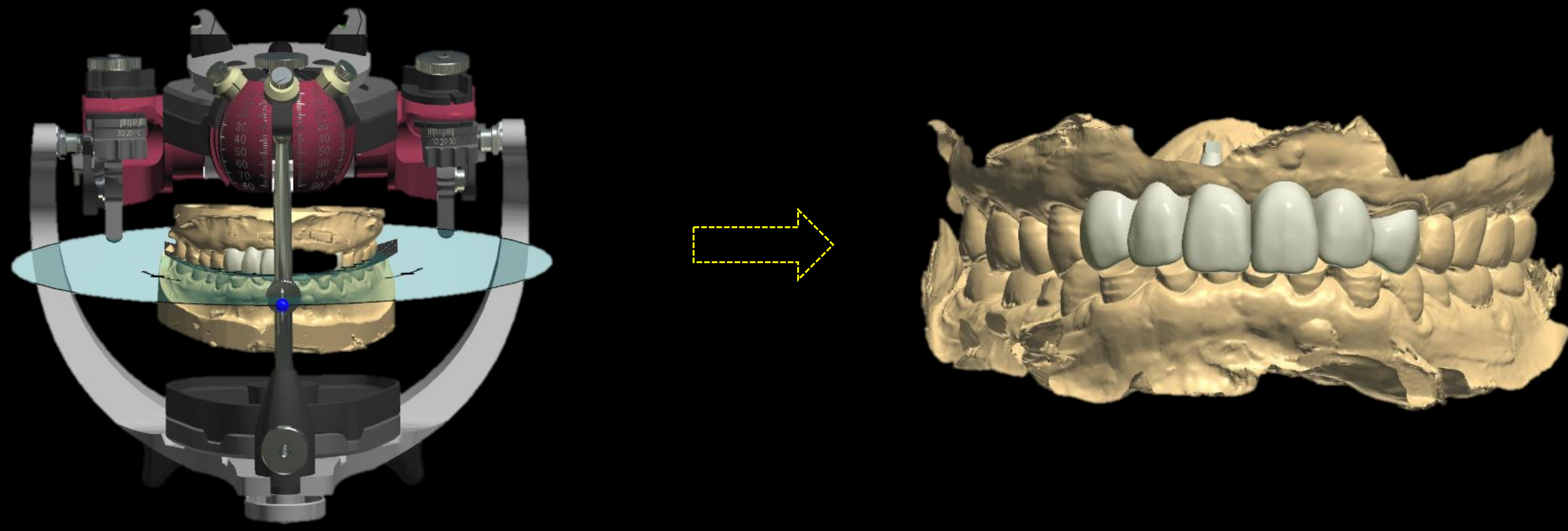
■ Digital impression (CEREC Primescan, NC, USA)



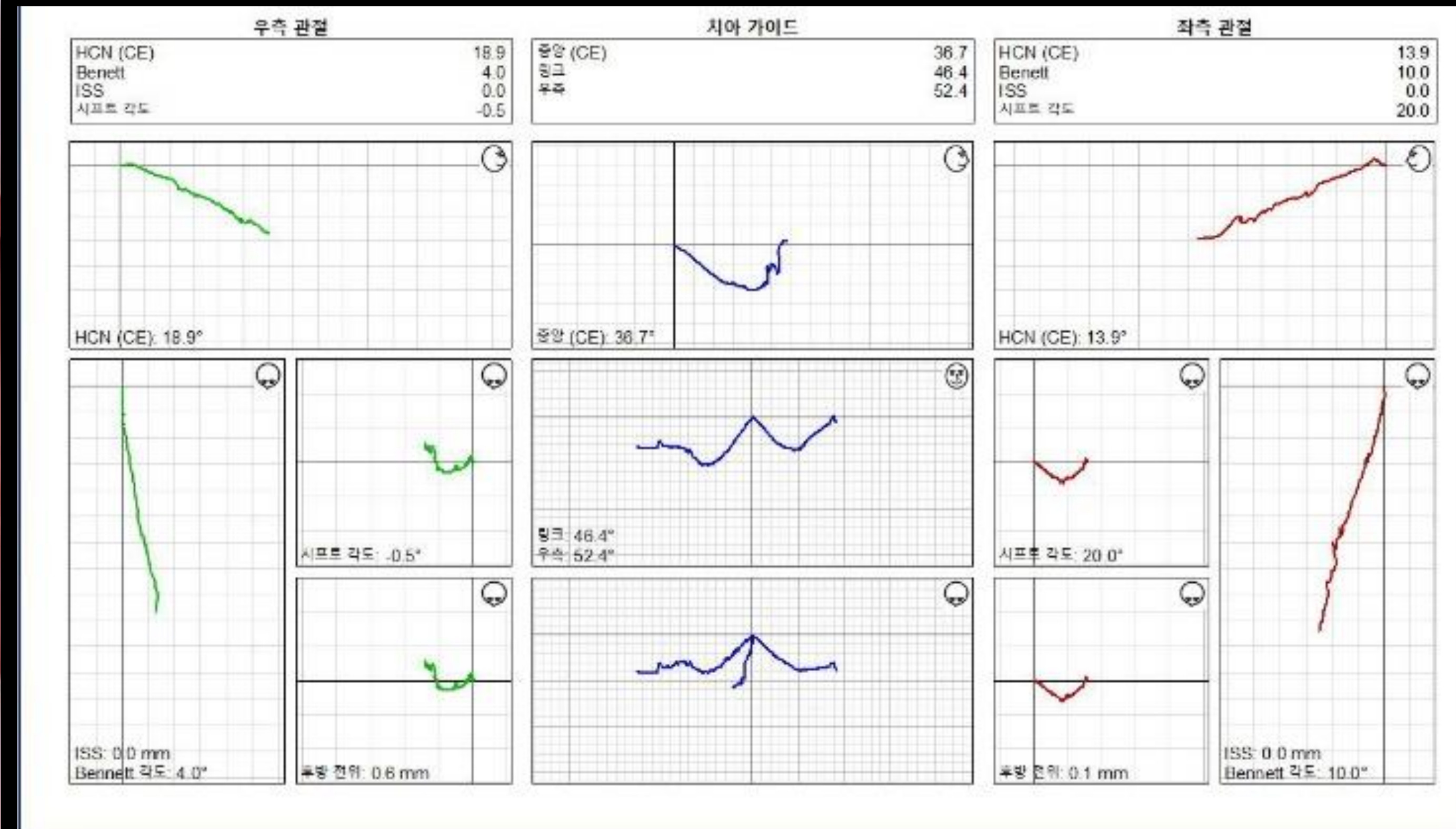
■ Integration of intraoral scan with 3D facial scan (Bellus dental Pro, Bellus 3D, Inc.)



■ CAD-CAM design with virtual articulation (3 Shape Dental System, 3Shape, Copenhagen, Denmark)



■ Definitive prosthesis (Monolithic zirconia) Transferring condylar and anterior guidance (Arcus Digama 2, KaVo, Germany)



■ Provisional restoration (PMMA)



Conclusion

In this case, in a patient who needs multiple implants after extraction, a provisional restoration using patient-specific anterior guidance was restored through digital motion analysis using ultrasound bite analysing devices (ARCUS Digma 2, KaVo Dental GmbH, Biberach an der Riss, Germany) and its adaptability was evaluated. After that, it was transferred to the definitive prosthesis to restore the lost anterior guidance, and as a result, the patient was functionally and aesthetically satisfied.