Case Report :

Case of Full mouth rehabilitation using DR abutment.

- Includes compensation of angulations up to 22º in anterior area.

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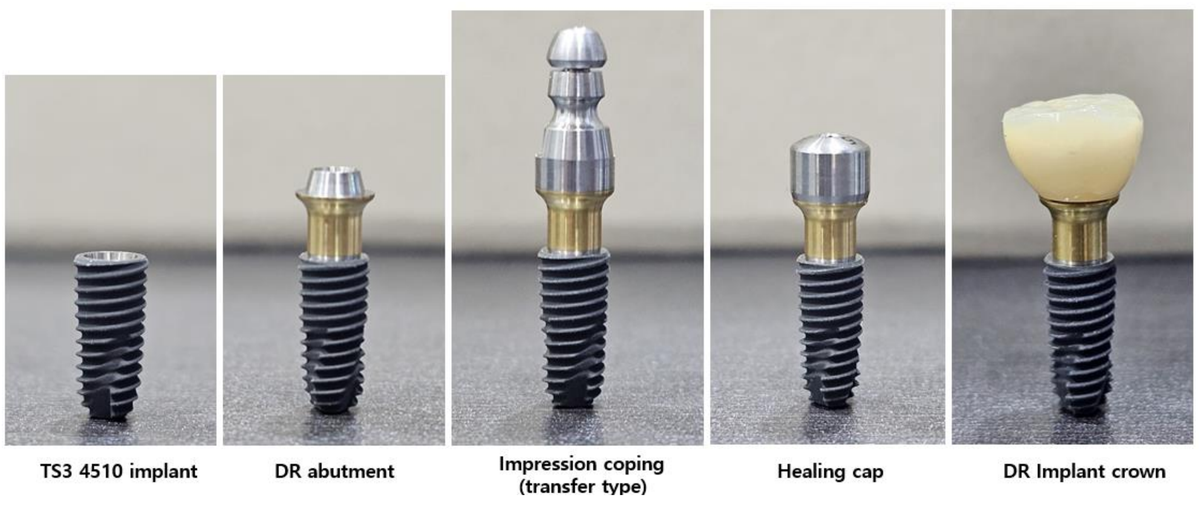
Introduction

Osstem Digital-Retained(DR) abutment is one of a so called “Cementless-implant prosthodontic system”. In general, there are some types of cementless prosthodontic in clinical dentistry field. The DR abutment system is similar to the multi abutment and/or convertible abutment, it can form precise occlusion separately from the screw tightening, easy to fasten especially in two or more connected implant prosthodontic, and is advantageous in the long-term implant longevity because the inner wall of the implant is well-protected. The DR abutment is fully digital designed and operated, so we can easily adapt and use.

Basic Concepts



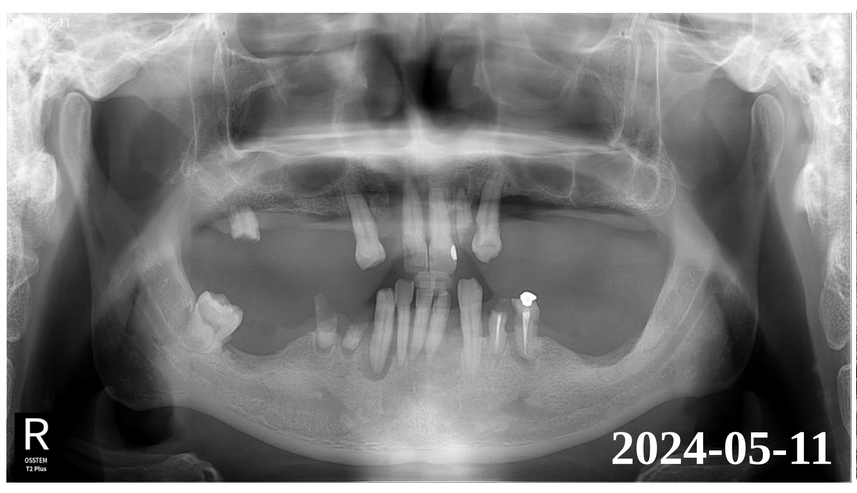
DR abutment can be easily converted the implant connection form a bone-level internal connection type to an external one. Once implant and DR abutment is tightened(30Ncm), the binding is maintained regardless of the superstructure. Therefore, the action of tightening the screw of the prosthodontic(20Ncm) does not cause changes in occlusion, in the contact surface with adjacent teeth. Moreover, in cases where two or more implants are connected, the prosthodontic connection changed to an external connection has many prosthodontic advantages than the traditional way. Furthermore, DR abutment system has a powerful advantage in maintenance, because of its retrievability.

Patient Information

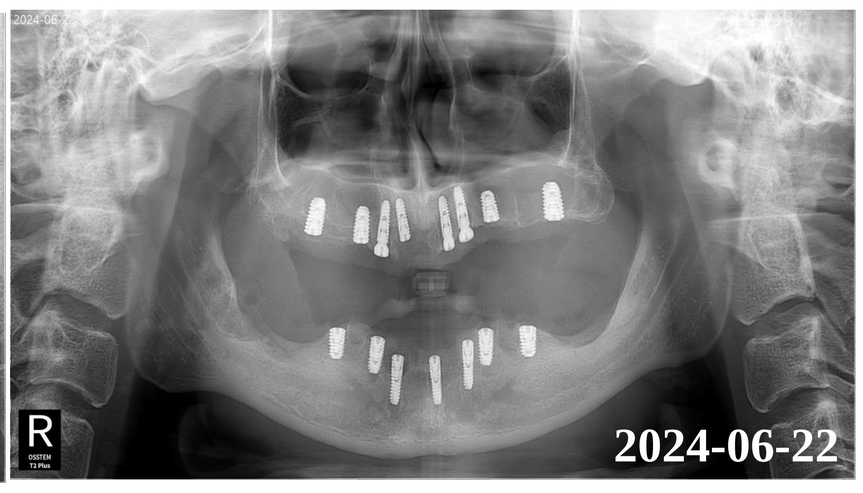
- **Age / Sex : 45Y / Male**
- **Case: Full mouth reconstruction**
- **Medical Hx: HTN, DM, Hyperlipidemia, Severe dental-phobia**

Clinical Procedures

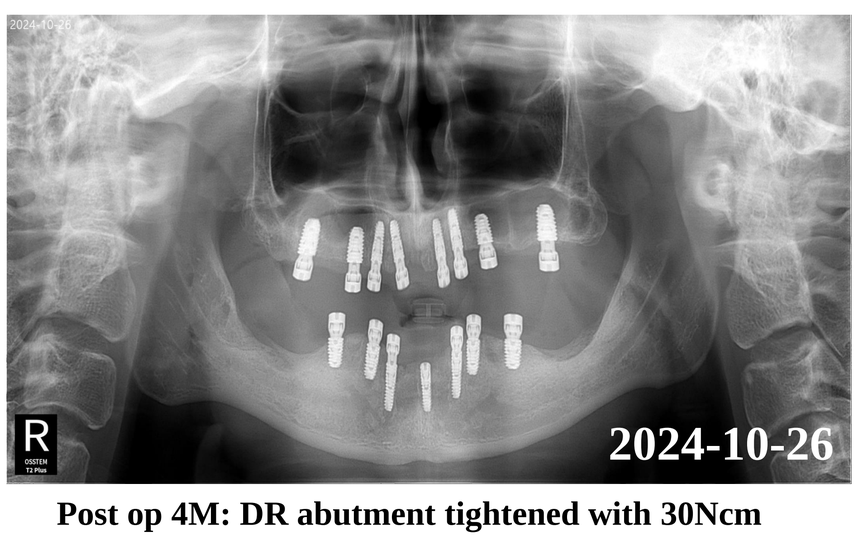
Oral examination



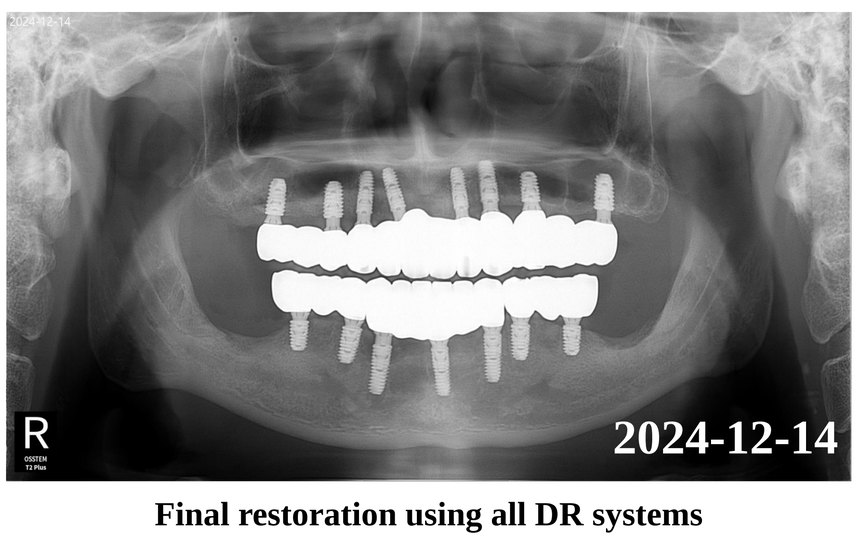
Oral examination



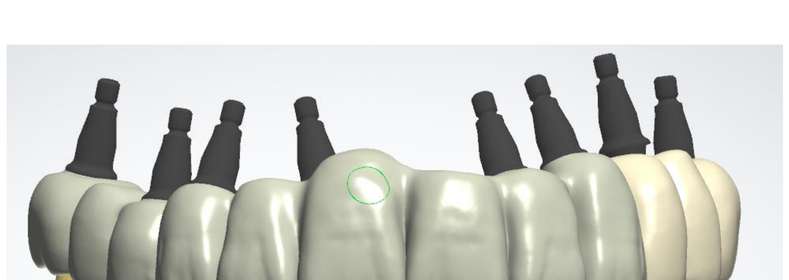
First Surgery with Osstem TS3 BA implants

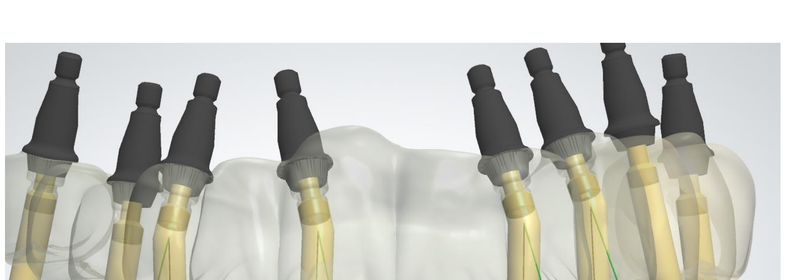


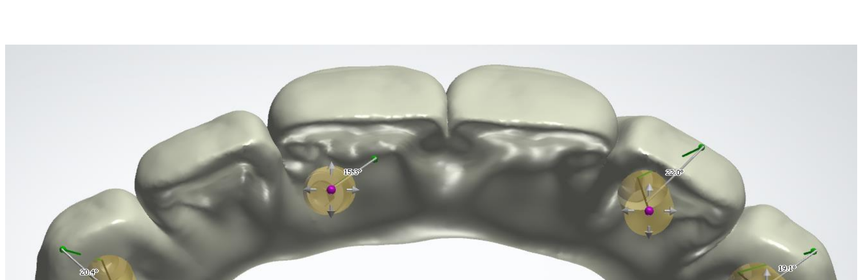
Post op 4M: DR abutment tightened with 30Ncm



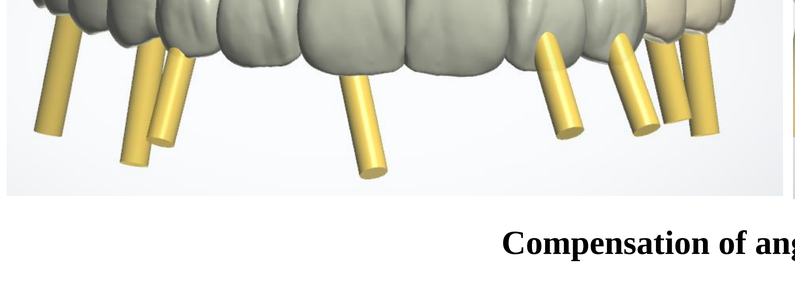
Final restoration using all DR systems

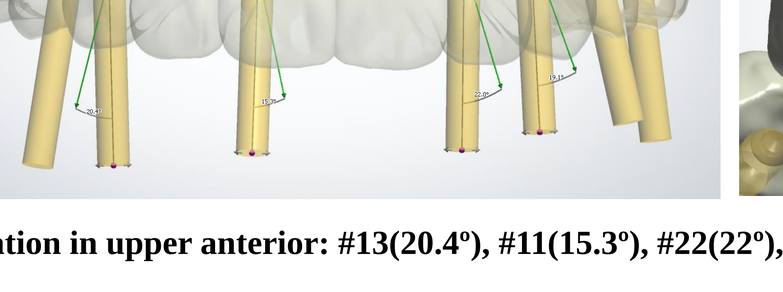






Compensation of angulation in upper anterior: #13(20.4º), #11(15.3º), #22(22º), #23(19.1º)





Compensation of angulation in lower anterior: #33(11.7º), #31(13.9º), #43(0.2º)

Conclusion

- **Osstem DR abutment is a one of ‘cementless implant prosthodontic system’, similar to multi abutment and convertible abutment. Unlike other system, DR system does not cause changes in occlusion, concentrations of stress on the inner wall of the implant.**
- **Osstem DR abutment is more advanced system than traditional way, because it is fully digital designed and operated.**
- **Osstem DR abutment offers a variety of options, including the ability to compensate for 20 more-degree of implant angulation, which is very useful in clinical dentistry especially in anterior implant restoration.**