

Immediate Smile[®] bridge

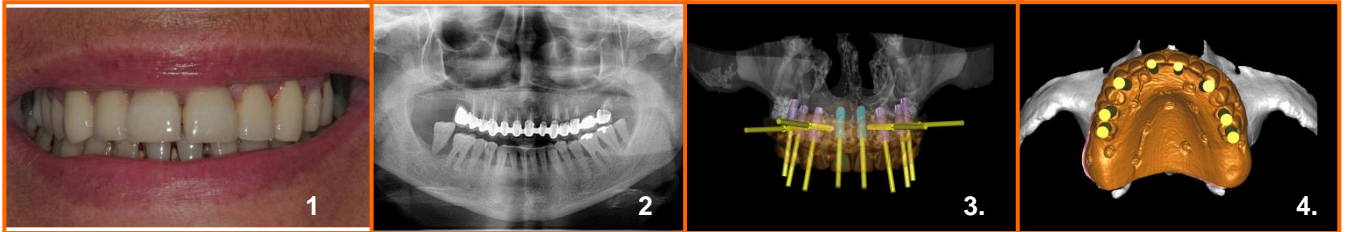
CAD/CAM restorations for immediate loading

CASE REPORT: Minimal invasive flapless surgery followed by immediate loading by mean of a CAD CAM bridge.

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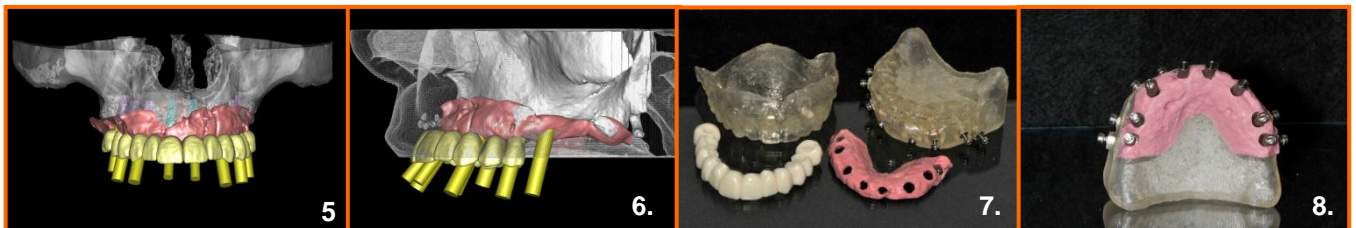
"SimPlant offers us the opportunity to carefully manage our aesthetic cases: from diagnostics, to implant and prosthetic planning, to guided surgery and CAD CAM restorations"



1. Pre-operative view: metallo-ceramic bridge.

2. Pre-operative panoramic x-ray. The bridge is not yet supported functionally from the teeth .

3-4. Implant planning with SimPlant Pro. The temporary prosthesis is converted into a scanprosthesis using Materialise Dental Dual Scan Markers. The prosthesis is integrate automatically with the dual scan module.



5. Prosthetic planning with SimPlant. The soft tissue is calculated based on the scan prosthesis. All implants are planned according to the emergence profile of future crowns related to the bone and the soft tissue.

6. Lateral view of the prosthetic planning in combination with a volume rendering of the lip.

7. Immediate Smile bridge and Immediate Smile model containing a bone model, realistic soft tissue mask and duplicate prosthesis.

8. Immediate Smile model with implant analogs and temporary abutments in position.

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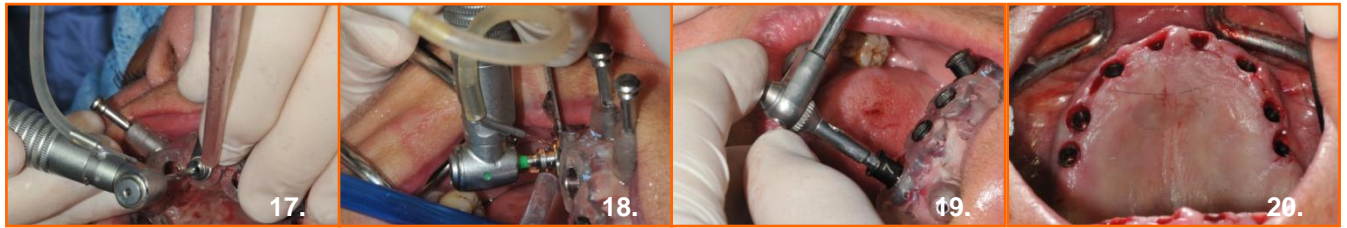
CAD/CAM restorations for immediate loading



- 9. CAD/CAM milled Immediate Smile bridge seated on the Immediate Smile model. The restoration is slightly oversized compared to the temporary cylinders selected during ordering in the online shop.
- 10. Articulated immediate Smile model with bridge.
- 11. Reduced bridge to allow individualization by the dental lab.
- 12. Finished high aesthetic bridge.



- 13. Pre-operative view of edentulous ridge one month after the bone remodeling surgery.
- 14. Minimal invasive surgery by using a tissue punch.
- 15. Removal of the soft tissue before fixating the mucosa-supported Facilitate SAFE SurgiGuide.
- 16. Fixation of the mucosa-supported SurgiGuide by using passive pin after correct seating with a surgical index



- 17-18. Drilling procedure using the Facilitate surgical kit. The SAFE SurgiGuide controls the position, angulation and depth of the drill.
- 19. Implant placement through the SurgiGuide using Facilitate implant holders to allow for accurate implant placement with depth control.
- 20. Result of minimal invasive flapless surgery.



- 21. Relining of the temporary bridge when the patient is closed in maximal occlusion. The temporary cylinders are secured onto the bridge by injecting composite cement.
- 22. When all cylinders have been secured, the bridge is removed for further finishing outside the patient's mouth.
- 23. Frontal view of the finished Immediate Smile bridge.
- 24. Post operative panoramic view.