



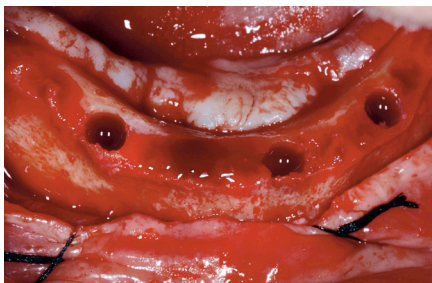
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A single step to success: transgingival Xive® implants in the edentulous mandible

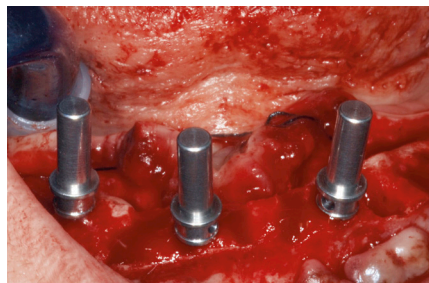
Patients: 20 healthy and edentulous patients, who received four immediately loaded implants (Xive) placed in the interforaminal area of the lower jaw.

Challenge: The long healing period in two-stage surgical procedures might impose an intolerable situation for the completely edentulous patient who is obliged to wear an inconvenient removable temporary prosthesis for an extended period of time. The predictability of the original two-stage protocol led to developments in order to simplify the techniques, reducing the healing time and minimize the delay between surgical and prosthetic phases.

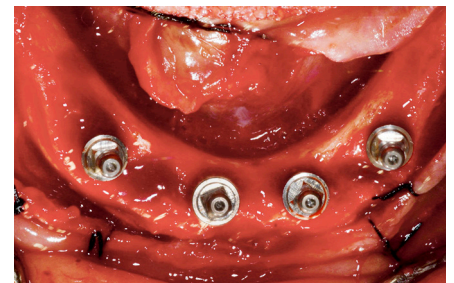
Treatment: By utilizing the identical surgical approach, the user is free to choose between the subgingival and the transgingival version of the Xive 3.8 or 4.5 mm implant. Moreover, it is possible to obtain different prosthetic solutions in order to meet the specific demands of the edentulous patient. Depending on the individual clinical situation and the patient's demands, different prosthetic concepts were followed, ranging from a classic solution with an overdenture on an U-shaped bar to a fixed prosthesis with a rigid framework inside. Based on the evaluation of the clinical outcome, high success rates as well as long-term stability of the hard tissue and the successful maintenance of the soft tissue are demonstrated.



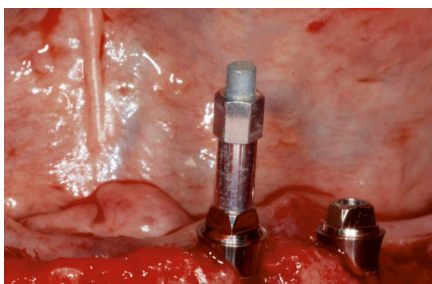
1. The surgical site of the first case is exposed with a full-thickness flap and the anatomical structure is revealed. An osteotomy of the bony ridge is performed if necessary.



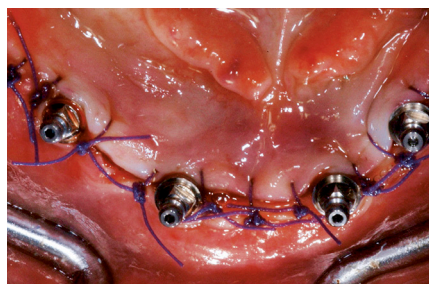
2. After preparing the osteotomy, paralleling pins can be used to check the correct implant position.



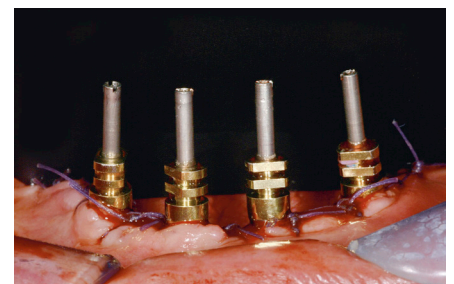
3. Xive TG implants are placed in the interforaminal area.



4. Subsequently, the IS Q values are measured (Osstell ISQ).



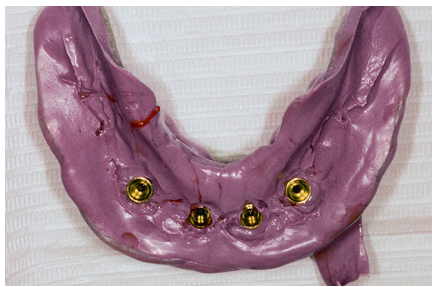
5. The flaps are repositioned and sutured.



6. Transfer copings for pick-up technique are placed on the implants.



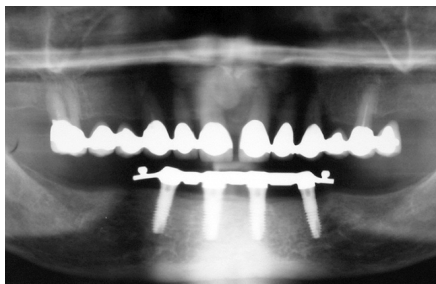
7. The impression is taken with a polyether material.



8. The impression with the incorporated Friadent transfer copings for pick-up technique.



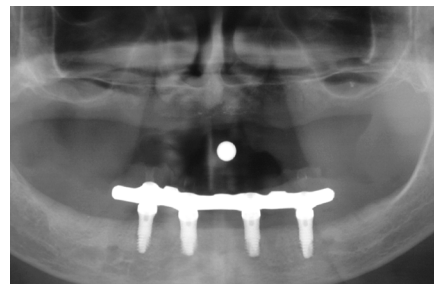
9. The lab-fabricated U-shaped bar to support the prosthesis is inserted into the patient's mouth within 24 hours after surgery.



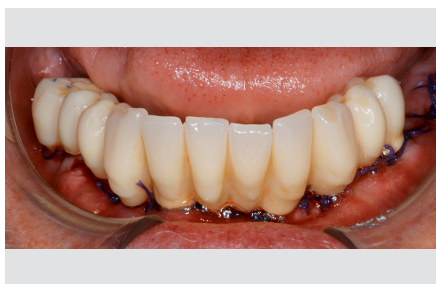
10. Radiographical check 24 months after implant placement.



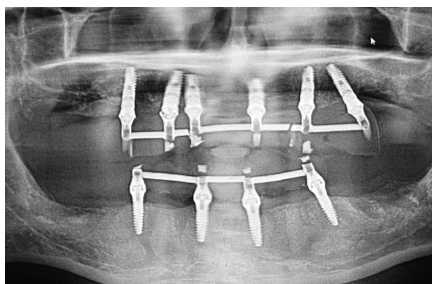
11. This second case demonstrates how the suprastructure can be used to correct missing tissues by using pink plastic.



12. The X-ray evaluation of this case after 24 months: The rigid framework and the stable bony situation are visible.



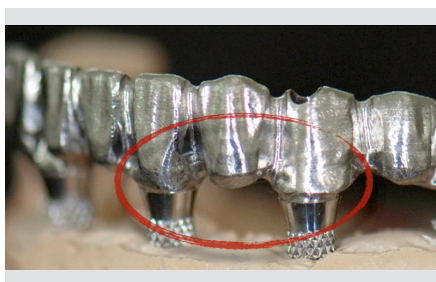
13. In another case the suprastructure was fabricated without additional pink material due to the favorable vertical dimension.



14. The radiographical situation of this case after 24 months.



15 a. The computer-designed and -manufactured Atlantis bar for a final restoration of another case is shown.



15 b. The computer-designed and -manufactured Atlantis bar for a final restoration of another case is shown.



16. The esthetic veneering of this case is made by using ceramics.



17. Healthy and stable hard and soft tissue conditions of another situation 24 month after restoration with Atlantis.

This case report is published as an inspiration for you as a clinician and not necessarily as a recommendation from Dentsply Sirona. Reprinted from: Lenzi, C., A single step to success. Transgingival Xive implants in the edentulous mandible. IDENTity, 2012(2): p. 32-35.