

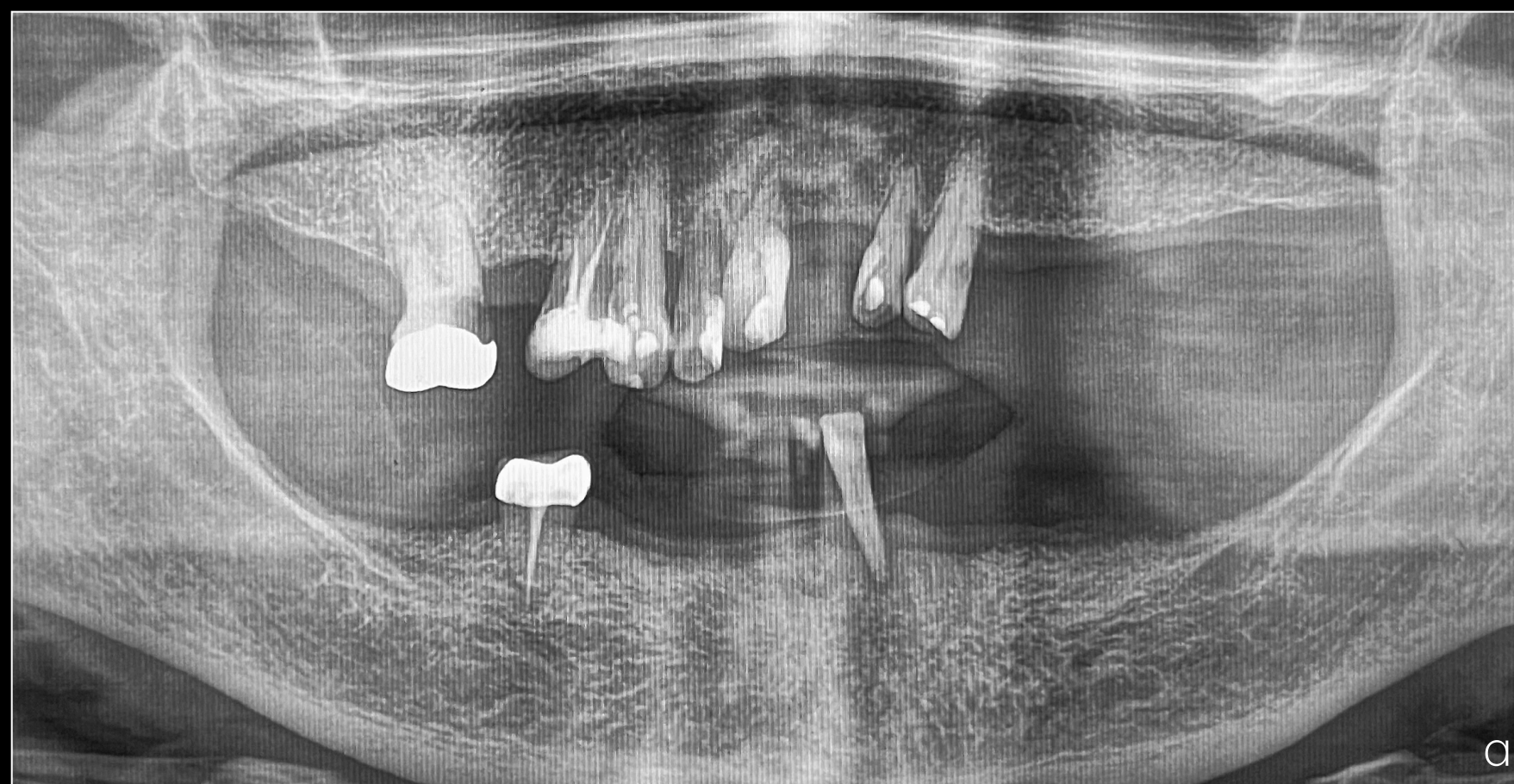
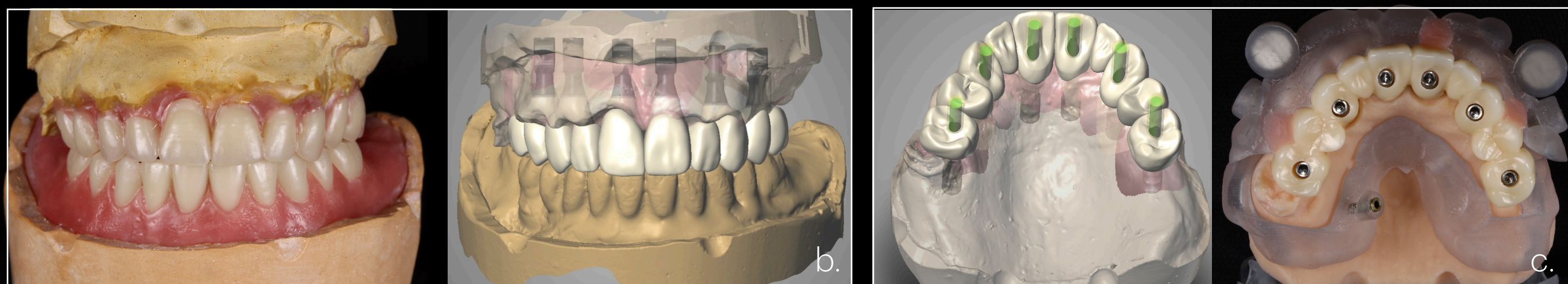


MANAGEMENT OF FULL ARCH PROSTHESES WITH IMMEDIATE LOADING IN PATIENTS WITH TERMINAL DENTITION

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INTRODUCTION

Digital workflow optimizes the planning and fabrication of prostheses in cases of terminal dentition, where few teeth remain and are periodontally compromised. The decision-making regarding the management of immediate loading becomes a crucial aspect of treatment (FIG. 1).



CLINICAL CASE

A 63-year-old female patient, with controlled hypertension, wearing removable partial dentures and diagnosed with generalized stage IV periodontitis, grade B. The type of smile and the remaining tissues allowed for the development of a virtual design for the choice of prosthesis (FIG. 2).



FIGURE 1. Digital flow facilitates planning. (a) Terminal dentition, (b) Diagnostic wax up (left) and digital design (right), (c) Surgical guide and PMMA provisionals.

FIGURE 2. Clinical situation. (a) Patient with high smile and extruded teeth, (b) Periodontal disease, (c) Prosthesis in poor conditions.

TOMOGRAPHIC AND DIGITAL PLANNING



FIGURE 3. Implant planning. (a) Upper and lower Occlusal views, (b) Test on patient and diagnostic wax up and digital design, (c) Panoramic locations of implants, (d) Implants parallelism.

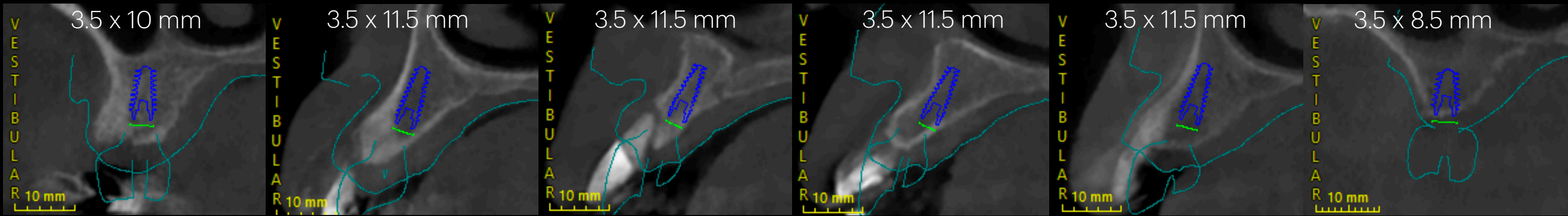


FIGURE 4. Sagittal tomographic sections of maxillary implants from left to right.



FIGURE 5. (a) Magnetic base guide, (b) Implants guide, (c) Guide for PMMA provisionals.

1) EXTRACTION OF REMAINING TEETH

2) PLACEMENT OF 6 IMMEDIATE IMPLANTS IN THE MAXILLA

3) PLACEMENT OF TRANSEPITHELIAL ATTACHEMENTS

4) IMMEDIATE LOADING OF FP1 TYPE OF PROSTHESIS IN PMMA PROVISIONALS

Treatment
Plan



Implant surgery

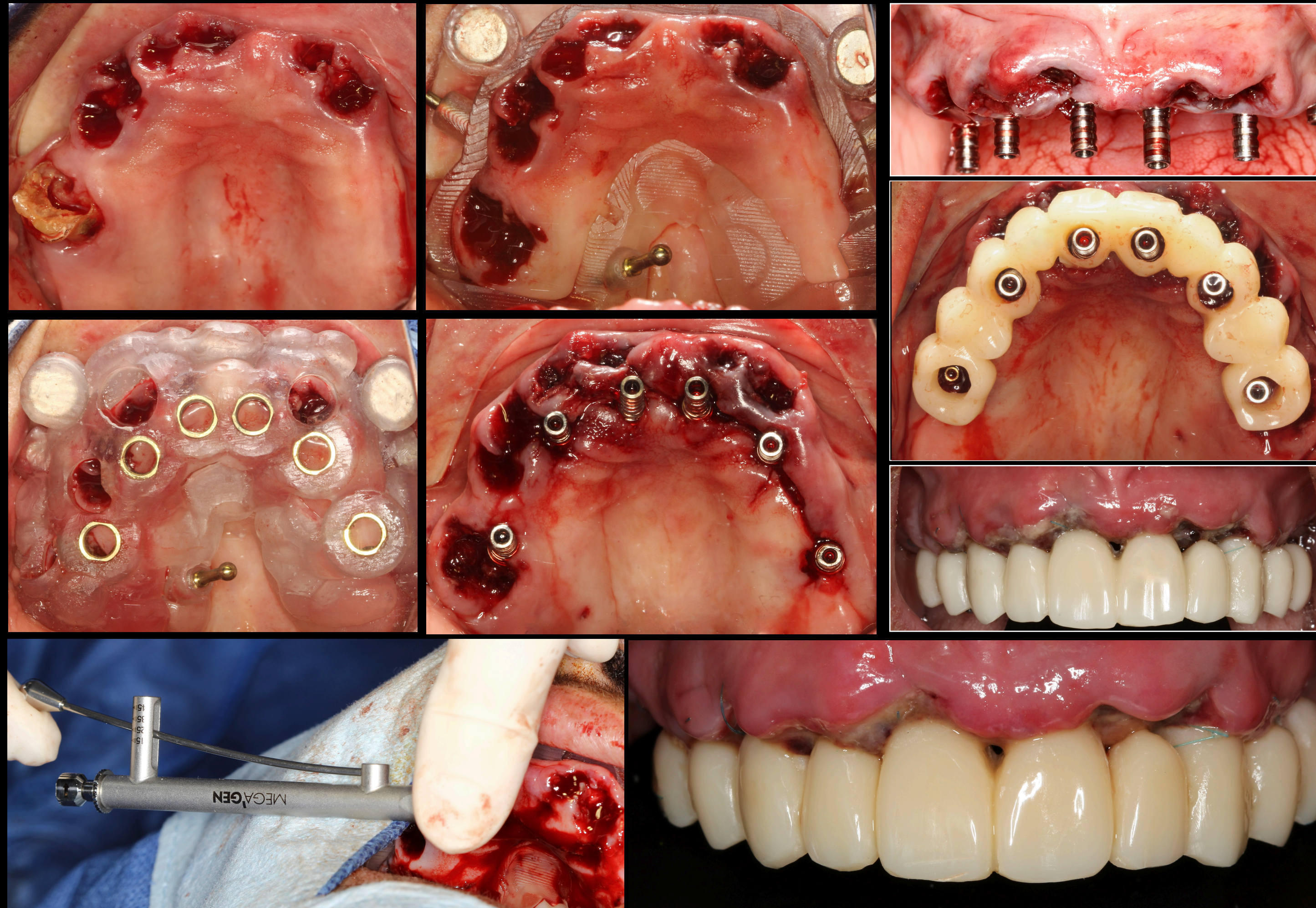


FIGURE 6. Implant surgery, Placement of 6 post-extraction implants in the maxilla with fully guided surgery with immediate loading.

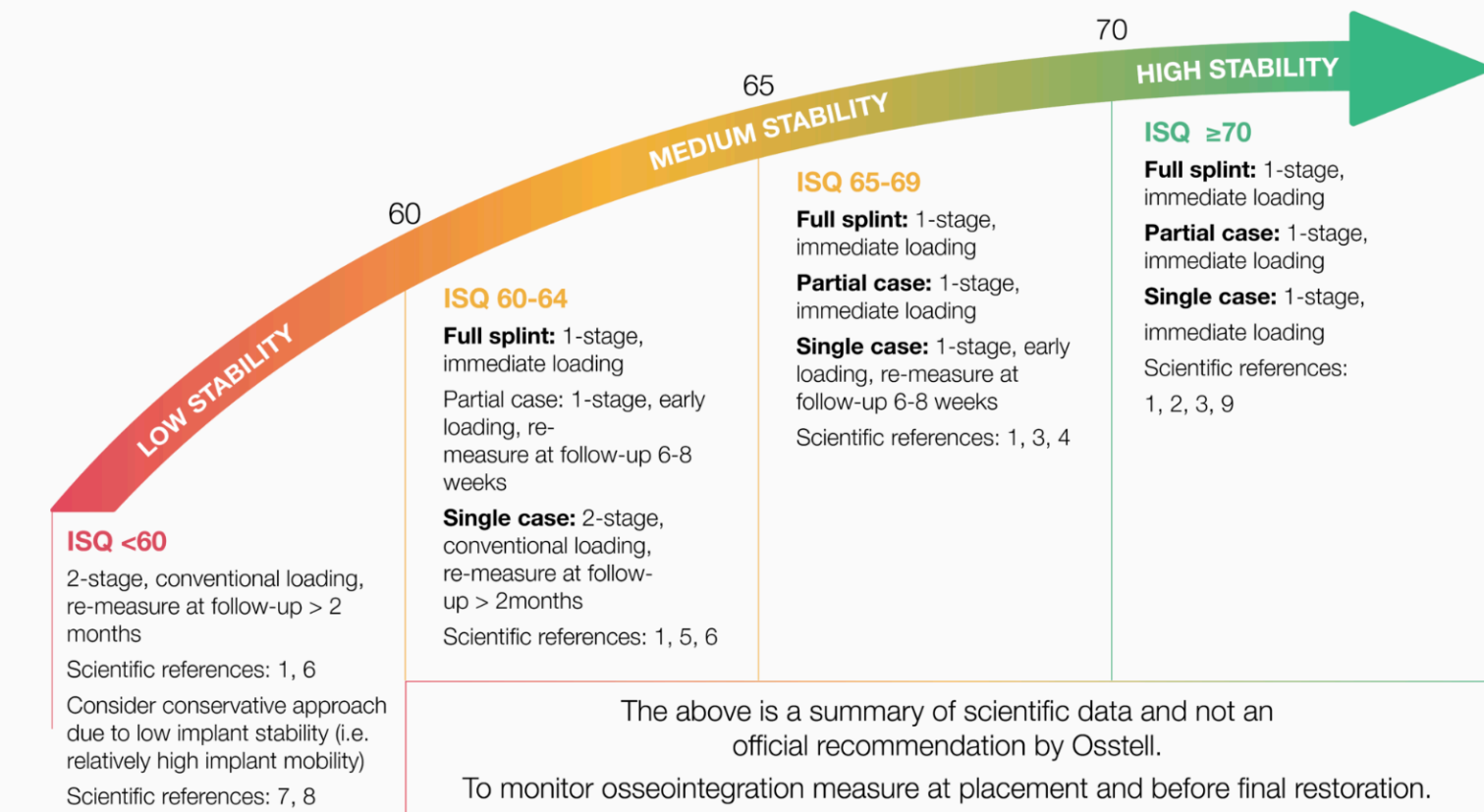


FIGURE 7. Ostell ISQ scale.

IMPLANT ZONE	INSERTION TORQUE	ISQ
16	25 N	70
13	35 N	78
11	>40 N	85
21	>40 N	90
23	35 N	80
26	35 N	75

FIGURE 8. Table of insertion torque and ISQ values per implant.



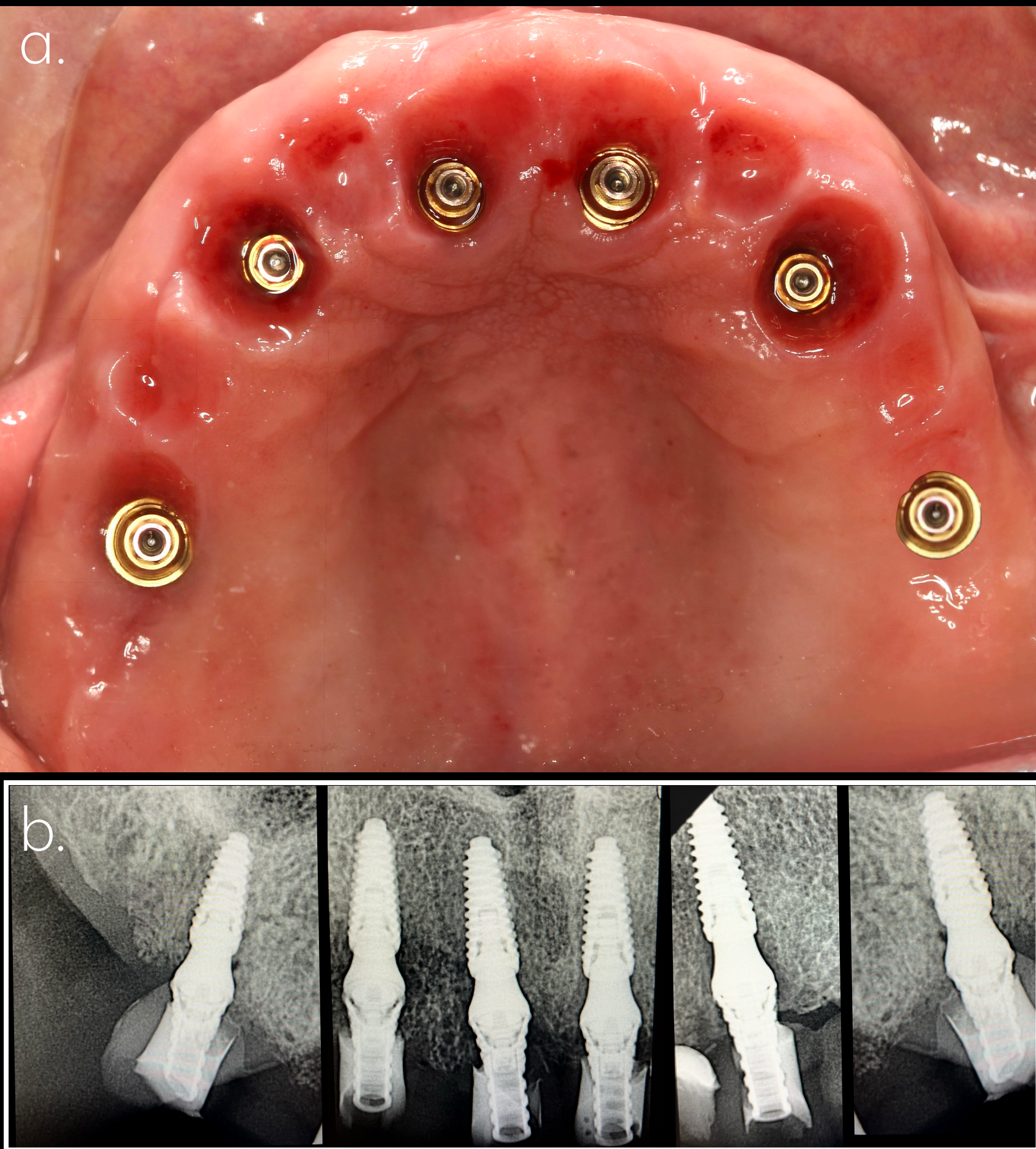


FIGURE 9. Final clinical results. (a) Profiled tissues in occlusal view, (b) Periapical radiographs 3 months postoperative, (c) Trancisional maxillary (FP1) and trancisional mandibular (FP3) in frontal view, (d) Final esthetic results.

Results



REFERENCES