

## IMMEDIATE FUNCTIONAL LOADING OF SINGLE ANYRIDGE® IMPLANTS A 2-YEAR PROSPECTIVE MULTICENTER STUDY

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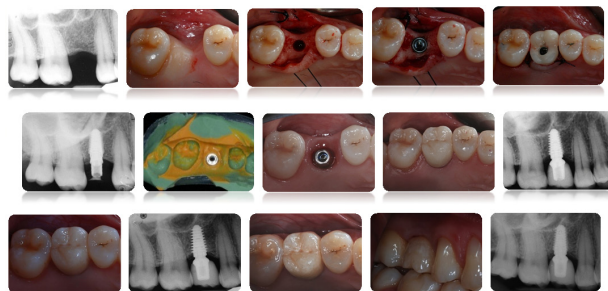


### Objectives

The aim of the present prospective multicenter study with 2 years of follow-up was to evaluate the clinical outcome of immediately loaded single AnyRidge® implants.

### Materials and Methods

Patients were recruited at six clinical centers. Inclusion criteria were single tooth replacement in fully healed sites or post-extraction sockets with adequate bone height and width to place an implant of at least 3.5 mm in diameter and 10.0 mm in length. All implants (AnyRidge® implants, Megagen) were functionally loaded immediately after placement. After 3 months, final crowns were delivered. All implants were followed for 2 years. Outcome measures were: implant stability, complications, peri-implant marginal bone level changes.



### Results

Fifty-seven implants (38 maxilla, 19 mandible) were placed in 46 patients (23 males, 23 females, aged between 18- 73 years). Ten implants were placed in post-extraction sockets. Four patients (four implants) withdrew from the study and were consequently classified as drop-outs. At the end of the study, only one implant was lost, in a healed site. All the surviving implants were stable, giving an overall 2-year survival rate of 97.6% (patient-based). One patient experienced pain and swelling after surgery: this was managed by giving anti-inflammatory and analgesic medication, and no further complications were reported. At the end of the study, the incidence of biologic complications was 1.8%. Prosthetic complications were more frequent, and amounted to 7.5%. In fact, three patients had their abutments loosened. All these abutments were re-inserted and screwed in again; however, these were considered as prosthetic complications. In addition, a ceramic fracture occurred in a metal-ceramic definitive crown, in the posterior maxilla of a male patient; this crown was removed and the clinician had to provide a new restoration for the patient. Finally, after 2 years of functional loading, the overall peri-implant marginal bone loss was 0.37 mm ( $\pm$  0.22). In the healed site group, a 2-year marginal bone loss of 0.4 mm ( $\pm$  0.22) was reported, while in post-extraction sockets the 2-year marginal bone loss amounted to 0.3 mm ( $\pm$  0.22).

### Conclusions

The immediate functional loading of single AnyRidge® implants seems to represent a safe and successful procedure. Further, long-term follow-up studies on a larger sample of patients are needed to confirm these results.

### References

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