



**IMPLANTATPRAXIS**  
& ÄSTHETISCHE ZAHNHEILKUNDE

## PUBLIKATIONEN

**»Immediate Loading of Fixed Prostheses for the Rehabilitation of the Edentulous Jaw: 1-Year Preliminary Data from a Prospective Clinical Study«, Hinze M., Thalmai T., Wachtel H., Bolz W. Int J Oral Maxillofac Implants 2010; 25(5); 1011-1018.**

### ABSTRACT

**Purpose:** The purpose of this prospective clinical trial was to evaluate over a 5-year period the treatment outcomes for immediately loaded full-arch fixed prostheses supported by two axially inclined and two tilted implants used to rehabilitate edentulous arches. This report presents preliminary 1-year results. **Materials and Methods:** Thirty-seven patients were recruited for treatment with either mandibular or maxillary full-arch fixed prostheses supported by four implants. Within 24 hours, the implants were immediately loaded with screw-retained full-arch acrylic resin provisional restorations. Definitive reconstructions were delivered 6 months later. Complete full-arch prostheses were supported by metal frameworks combined with highdensity acrylic resin. Follow-up visits were scheduled for 6 and 12 months after initial prosthetic loading and then annually for up to 5 years. Digital radiographs were obtained immediately, 6 months after surgery, and at each annual follow-up visit. Marginal peri- implant bone levels were assessed using digital image analysis. **Results:** The 1-year implant survival rates were 96.0% for axially positioned implants and 94.6% for tilted implants. The survival rates were 96.6% for maxillary implants and 98.7% for mandibular implants. The prosthetic survival rate was 100%. No significant differences were found in the results for tilted versus axially positioned implants. One year after loading, the mean marginal bone loss was  $0.82 \pm 0.31$  mm around the axially oriented implants and  $0.76 \pm 0.49$  mm around the tilted implants ( $P \leq .05$ ). **Conclusions:** Preliminary data from this clinical trial show high implant survival rates for immediately loaded full-arch prostheses supported by four implants. Immediate loading of tilted implants may be considered a viable treatment option for the rehabilitation of edentulous patients. INT J ORAL MAXILLOFAC IMPLANTS 2010;25:1011–1018

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