Research Blogs ▾ ⋮ Sign In / Sign Up

Implant Mandibular Overdentures Retained by Immediately Loaded Mini Implants: A Prospective Study Comparing the Clinical and Radiographic Outcomes Between Mini Dental Implants and Standard-Sized Implants

Dentistry Journal 2015, 3(4), 157-167; doi:10.3390/dj3040157 in Dentistry and Oral Medicine

Kostas Papaioannou
Department of Prosthodontics, Dental School, Aristotle University of Thessaloniki, Greece

Vania Karkazian
Private Practice, Thessaloniki, Greece

Aude Perez
Private Practice, Montpellier-Cambrai Dental Clinic, Montpellier, France

Jill Tomasseth
Private Practice, Montpellier-Cambrai Dental Clinic, Montpellier, France

Share ⋮ Request Full-Text

Abstract

Purpose: The aim of this 1-year randomized controlled clinical study was to evaluate the clinical and radiographic outcomes of immediately loaded mini dental implants (MDI) versus standard-sized implants (SSI) retaining mandibular fixed-removable bar-type (FRO) implants, placed in the interforaminal region of edentulous patients. Materials and methods: Twenty-four edentulous patients were randomly assigned to receive two MDI or two SSI, placed in the interforaminal region, immediately loaded with FRO. Clinical and radiographic parameters were recorded at baseline, 6 months and 1 year. Results: Twenty-four patients (mean age: 65.4 years) were treated with 48 implants (24 MDI and 24 SSI). Implant survival was 100% for MDI and 92.3% for SSI. Mean marginal bone loss (MBL) at the mesial and distal sides of implants was 0.13 ± 0.08 mm for MDI and 0.64 ± 0.12 mm for SSI (p < 0.05). Conclusions: Within the limits of this study, immediately loaded MDI retaining FRO showed similar survival rates and less MBL than SSI. Further research is needed to confirm these results.

Do you want to read the rest of this article?

Request full-text

Sponsored

Citations (1) References (27)

1 Mandibular single-implant overdentures: Preliminary results of a randomized clinical trial — Journal of Prosthodontics — Wiley Online Library

2 Implant Mandibular Overdentures Retained by Immediately Loaded Mini Implants: A Prospective Study Comparing the Clinical and Radiographic Outcomes Between Mini Dental Implants and Standard-Sized Implants — Dentistry Journal — MDPI

View Show abstract

3 Immediate versus delayed loading of mini dental implants supporting a mandibular overdenture: 1-year results of a randomized controlled clinical trial — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

4 Patient satisfaction and prosthetic aspects with mini-diameter implant mandibular overdentures: prospective study — Clinical Oral Investigations — Springer

View Show abstract

5 Mini versus standard dental implants as overdentures retainers: 1 Year clinical study - implant marginal bone loss — Clinical Oral Investigations — Springer

View Show abstract

6 A Five-Year Follow-Up Study of Overdentures Retained by Mini Dental Implants — Clinical Implant Dentistry and Related Research — Wiley Online Library

View Show abstract

7 Clinical sequence of edentulous people treated with mini implant overdentures: a retrospective study — Clinical Oral Investigations — Springer

View Show abstract

8 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

9 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

10 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

11 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

12 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

13 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

14 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

15 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

16 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

17 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

18 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

19 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

20 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

21 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

22 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

23 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

24 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

25 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

26 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

27 Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

Sponsored Ads

Mandibular single-implant overdentures: Preliminary results of a randomized clinical trial — Journal of Prosthodontics — Wiley Online Library

Implant Mandibular Overdentures Retained by Immediately Loaded Mini Implants: A Prospective Study Comparing the Clinical and Radiographic Outcomes Between Mini Dental Implants and Standard-Sized Implants — Dentistry Journal — MDPI

View Show abstract

Immediate versus delayed loading of mini dental implants supporting a mandibular overdenture: 1-year results of a randomized controlled clinical trial — Clinical Oral Implants Research — Wiley Online Library

View Show abstract

Patient satisfaction and prosthetic aspects with mini-diameter implant mandibular overdentures: prospective study — Clinical Oral Investigations — Springer

View Show abstract

Mini versus standard dental implants as overdentures retainers: 1 Year clinical study - implant marginal bone loss — Clinical Oral Investigations — Springer

View Show abstract

A Five-Year Follow-Up Study of Overdentures Retained by Mini Dental Implants — Clinical Implant Dentistry and Related Research — Wiley Online Library

View Show abstract

Clinical sequence of edentulous people treated with mini implant overdentures: a retrospective study — Clinical Oral Investigations — Springer

View Show abstract

Mini versus standard implants retaining mandibular overdentures: Marginal bone loss — Clinical Oral Implants Research — Wiley Online Library