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## Literature Abstract

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## Long-term outcome of cemented versus screw-retained implant-supported partial restorations

The purpose of this study was to compare the long-term outcomes and complications of cemented versus screw-retained implant restorations in partially edentulous patients. The study included 38 consecutive patients with bilateral posterior edentulism. Implants were placed, and cemented or screw-retained restorations were randomly assigned to the patients in a split-mouth design. Follow-up examinations (up to 15 years) were performed every 6 months in the first year and every 12 months in subsequent years. The parameters evaluated and recorded at each recall visit included ceramic fracture, abutment screw loosening, metal framework fracture, Gingival Index, and marginal bone loss. A total of 221 implants were followed, with no implant failure recorded during the follow-up period (mean follow-up:  $66 \pm 47$  months for screw-retained restorations [range: 18 to 180 months] and  $61 \pm 40$  months for cemented restorations [range: 18 to 159 months]). Ceramic fracture occurred significantly more frequently (P < .001) in screw-retained restorations ( $38\% \pm 0.3\%$ ) than in cemented restorations ( $32\% \pm 0.3\%$ ) than in cemented restorations ( $9\% \pm 0.2\%$ ). There was no metal framework fracture in either type of restorations ( $0.09 \pm 0.3$ ). The mean marginal bone loss was significantly higher (P < .001) for screw-retained restorations ( $1.4 \pm 0.6$  mm) than for cemented restorations ( $0.69 \pm 0.5$  mm). The authors concluded that the long-term clinical and biologic outcomes of cemented implant-supported restorations were superior to that of screw-retained restorations.

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