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# LONG-TERM EFFECT OF FIXED PROSTHETIC TREATMENT IN PERIODONTAL PATIENTS. A SYSTEMATIC REVIEW

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#### **Introduction:**

Tooth loss is a frequent complication of periodontal disease progression. Prosthetic treatment by means of fixed partial dentures (FPD) remains a viable treatment option in patients with history of treated periodontitis.

#### Aims:

The aim of the present systematic review (SR) was to evaluate the long-term effect of prosthetic treatment in periodontal patients.

#### **Methods:**

Only long-term studies reporting prosthetic treatment in periodontal patients and at least 5 years of supportive periodontal care (SPC) duration were enclosed in the present SR. A literature search on PubMed, Cochrane libraries, EMBASE, and hand-searched journals until January 2017 was performed. Quality assessment using STROBE was also carried out.

### **Results:**

A total of 11 articles were enclosed in the SR, reporting on 1032 patients with history of treated periodontitis and 1176 fixed bridges. Studies showed a high heterogeneity and low quality level. Very often, data on periodontal treatment and achieved outcomes were not reported. Considering 6 studies, data covering a total of 2919 prosthetic abutments was evaluated. After at least 5 years, 94.6% of prosthetic abutment and 91.9% of fixed bridges were maintained. After 10 years the mean survival rate of fixed bridge was 91,2% (5 studies). Among 159 extracted abutment teeth (5.4%), 30.4% was lost due to root fracture, 20.7% for periodontal reasons, 16.4% for decay, 13.8% for endodontic reasons and 10.7% for mechanical/technical failures.

#### **Conclusions:**

Prosthetic treatment using natural teeth in treated periodontal patients is highly predictable after at least 10 years of SPC with minimal complications and low periodontal disease progression.