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“Retrospective evaluation of the Microgap between implants and abutments in 272 titanium implants retrieved from humans: a 16-year experience (1989-2004)”

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Traduzione in italiano a cura Bone System del Titolo e dell'Abstract, tratti dalla pubblicazione indicata, alla quale si rimanda per una visione integrale e per ogni approfondimento.

Abstract

The causes of implant failures can be biological or mechanical. The mechanical causes include fracture of the implant, fracture of the abutment, and loosening of the abutment. Numerous studies show that abutment loosening constitutes one of the marked implant postsurgery complications requiring clinical intervention. The aim of the present study was to evaluate the incidence of the screw loosening in screwed or cemented abutments. Six adult male Beagles were used.

In each dog, the first molars and 2 premolars were extracted. The sutures were removed after 7 days. After 3 months, 10 implants were placed in each dog, 5 in the right mandible and 5 in the left mandible.

The abutments either were screwed in (n 1/4 30) by applying a total strength of 30 N/cm or were cemented (n 1/4 30). After 12 months, 8 (27%) loosened screws were present in screwed abutments, whereas no abutment loosening was observed in cemented abutments (P 1/4 .0001). Screwed abutments are often submitted to nonaxial loads that determine screw and abutment loosening.

“Analisi retrospettiva del microgap fra impianto e abutment in 272 impianti recuperati da umani: un’esperienza di 16 anni (1989-2004)”

Riassunto

N.D.