



Primary osseointegration analysis of Bionnovation implant system

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ABSTRACT

In this retrospective study, the rate of success and failure for the primary osseointegration from Bionnovation implant system was clinically evaluated. All the implants were inserted by the graduate students of the Implantology specialization Course at Unopar (Universidade Norte do Paraná) according to the surgical protocols preconized for osseointegration1-2. The success or failure of the primary osseointegration was evaluated during implant exposure for healing abutment insertion; lack of mobility and pain were evaluated, with concomitant radiograph analysis. A total of 173 implants placed in 68 patients (43 men, 43 women) were evaluated. The results showed that primary osseointegration was obtained in 95.4% of cases (165 implants), against only 4.6% of failures (8 implants). In men, success rate was of 87.3%, while in women this same rate increased to 99.2%. With respect to immediate loading, 31 implants were immediately loaded and five of these failed, resulting in a success rate of 83.9%. Clustering of five failures in only one patient showed the need for improvement of previous diagnosis in patients more susceptible to implant loss. If this patient had been identified the overall rate of failure would have decreased to 1.7%, and the success rate for immediate loading cases could reach 100%. These results are in agreement with those obtained in similar studies.

Key Words - Osseointegrated implants; Osseointegration; Cluster phenomenon; Dental implants; Success rate.

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