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Topic: Implant therapy outcomes, surgical aspects

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Abstract title:

The Straumann® Bone Level Implant in the esthetic zone: a private practice experience.

Full description:

Background:

In recent years, the concept of platform switching design has gained interest because it is believed to show minimal crestal bone and enhance esthetic results. Straumann® Bone Level implants (BLI) benefit from the Bone Control Design® based on the platform switching concept.

Aim:

The aim of this study was to review and assess the outcome of implant treatments in the esthetic zone with BLI and to document there survival rates for up to 25 months after placement in a private practice setting.

Methods:

A retrospective review and an outcomes assessment of BLI placed in the esthetic zone between January 2008 and July 2009 in a private practice were conducted. Implants were assessed by chart review and clinical review. Data were collected relative to patient age, gender, implant diameter, implant length, and anatomic location of implants. Clinical review consisted of mobility testing, soft tissue evaluation, prosthetic evaluation and radiographic evaluation.

Results:

Thirty-six patients were treated with a total of 48 BLI. Two different endosteal diameters were used: 17 implants of 3.3-mm diameter and 31 implants of 4.1-mm diameter. Implants of three different lengths were inserted: 1 implant of 14-mm, 30 implants of 12-mm and 17 implants of 10-mm. The implants position covered the following anatomic locations: maxillary central incisors (21 implants), maxillary lateral incisors (10 implants), maxillary canines (4 implants), maxillary premolars (5 implants) and mandibular incisors (8 implants). The follow-up period ranges from 7 to 25 months and all implants have at least 3 months of loading/function. Within the limits of this timeframe the survival rate is 100%.

Conclusions and clinical implications:

A retrospective review of 48 BLI placed in the esthetic zone between January 2008 and July 2009 confirmed the reliability and predictability of this implant.