The aim of this work is to observe and evaluate aesthetics performances of implant prostheses rehabilitation with zirconium implants (whiteSKY®, Bredent, Senden Germany) placed in aesthetic areas.

All ceramic restorations are very popular because of the grey color of titanium implants dentistry is one of the most modernisations of placing dental implants in all areas. Therefore, zirconia implants and zirconia implants are a good alternative.

The choice of zirconia implants for aesthetic purposes is essential. This is why the aesthetics of the implant are important. The aesthetics of the implant is one of the most important factors. The aesthetics of the implant is important for the aesthetic to the patient.

The aim of this work is to observe and evaluate aesthetics performances of implant prostheses rehabilitation with zirconium implants (whiteSKY®, Bredent, Senden Germany) placed in aesthetic areas. To do so, we will use the PES and WES.

Methods and Materials

At the Department of Oral Surgery and Dental Clinic, Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico, University of Milan, from 2007 to 2011, 8 patients were treated with 12 zirconium implants positioned in aesthetic areas. After surgery a temporary restoration was placed and a radiographic control was performed. After 6 months from the prosthetic functionalisation, a radiographic control was performed. After 6 months from the prosthetic functionalisation, the radiographic results were processed with Corel-draw 10, to evaluate marginal loss bone. 6, 12 and 24 months after the definitive prosthetic restoration was placed and a radiographic control was performed. The results were evaluated with PES and WES.

Results

From 6 months to 24 months after implant insertion, the survival rate was 100%. In our follow up period (6-24 months) any problem was related to implants or in prosthetic restoration, the average PES was 7.5±1 and the average WES was 8±1.3. The result PES/WES was 15.5±1.5.

Conclusions

The radiographic measurements of marginal bone levels adjacent to zirconia dental implants showed similar values to those of titanium implants in according to Albrektsson criteria. The peri-implant bone preservation may be associated to high predictability of surgical protocol, to the excellent characteristics of zirconia (high biocompatibility and low plaque adhesion) to the absence of micro-gap between fixture and abutment since zirconia dental implants are one-piece implants. Our PES and WES measurements are considered as a success score.

References