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### Submission Information

Event 22nd Meeting of the European Association of Osseointegration (54545)

Submission ID 15523

### Presentation & Topics

Speaker type Co-author

Preferred type of presentation Poster

#### Topic

Please, select one topic that best describes the work presented in your abstract among the following topics of the conference

2. Implant therapy outcomes, prosthetic aspects

Travel Grant Application No

### Abstract submission

**Title of your presentation** MORSE TAPER CONNECTION IMPLANTS PLACED IN AUGMENTED MAXILLARY SINUSES: 4 YEAR FOLLOW-UP  
(Maximum 150 characters)

**Background** Several clinical studies have indicated that the use of Morse taper connection implants represents a successful procedure for the rehabilitation of partially and completely edentulous arches, with excellent survival and success rates. However, the long-term follow-up of these implants in grafted maxillary sinuses is currently under active research.

**Aim/Hypothesis** this study evaluated the implant survival, the implant-crown success and the prosthetic complications of Morse taper connection implants (Implacil De Bortoli, Sao Paulo, SP, Brazil) placed in grafted sinuses with two different surgical approach (one- and two-stage approach).

**Material and Methods** at each annual recall, clinical, radiographic and prosthetic parameters were assessed. The implant-crown success criteria included the absence of pain, suppuration and clinical mobility, an average distance between the implant shoulder and the first visible bone contact (DIB) < 2.0 mm from initial surgery, and the absence of prosthetic complications at the implant-abutment interface.

**Results** from January 2008 until December 2011, a total of 294 Morse taper connection implants were inserted after 124 sinus floor elevation procedures in 99 consecutive patients. Ninety-five implants were placed simultaneously (one-stage) and 199 implants in a staged procedure, 6 months after sinus grafting (two-stage). Prosthetic restorations were fixed partial prostheses (91 units), single crowns (52 units) and fixed full-arches (12 units). The overall cumulative implant survival rate was 98.92% (one-stage: 97.62%; two-stage: 99.49%). The overall implant-crown success was 98.63% (one-stage: 97.85% ; two-stage: 98.99%). No prosthetic complications at implant-abutment interface were reported. After 4 years, the mean DIB was 1.09 mm ± 0.32 (one-stage: 1.17 mm ± 0.22 ; two-stage: 1.07 mm ± 0.34).

**Conclusions and clinical implications** based on the results and within the limits of the present study, it can be concluded that the use of Morse taper connection implants in conjunction with sinus floor elevation represents a successful procedure for the rehabilitation of the edentulous posterior maxilla.

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