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# Oral Presentation Abstracts

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## **Functional evaluation of short implant retained removable partial denture before and after implant anchorage: stage one**

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**Purpose:** In partial edentulism with distal edentulous ridges the residual alveolar bone in the posterior sides is often reduced. In these cases, the use of conventional length implants is not possible, while it could be possible the use of short implants whose lengths are inferior to 8mm.

The purpose of the study is to evaluate:

- The survival rate and the success of short implants used for support and anchorage in RPP.
- The so-treated patients from a functional point of view before and after the support of implant anchorage.

**Materials and Methods:** Patients with I and II Kennedy class rehabilitated in our department from 2004 to 2011 were recruited. Specific questionnaires are used to evaluate the level of satisfaction of the patient. Masticatory efficacy and occlusal force are checked by means of food tests and kinesiograph. Chewing cycle has been assessed by K7 Myotronics kinesiograph using specific jellies (Gunne's modified protocol). Short implants ( 6/5 mm length, supershort 3i) are inserted in strategic position according to the traditional protocol of delayed load. After three months for mandibular implants and six for maxillary ones, second surgical time is performed, and the prosthetic anchorage is performed using locator attachments. After a clinical and radiological evaluation the same tests performed before are repeated after the anchorage.

**Results:** Implant survival will be evaluated from the insertion time (3,6,12 months, once a year). The prosthetic aspect will be evaluated from the implant activation on ( 3,6,12 months, once a year).

**Conclusions:** In the light of the preliminary data, the use of short implants can be useful for RPD anchorage.