

EFFECT OF TELESCOPIC PARTIAL DENTURES ON SINGLE REMAINING TOOTH SURVIVAL

Authors: Srđan D. Poštić*, Ljubiša Ristić **

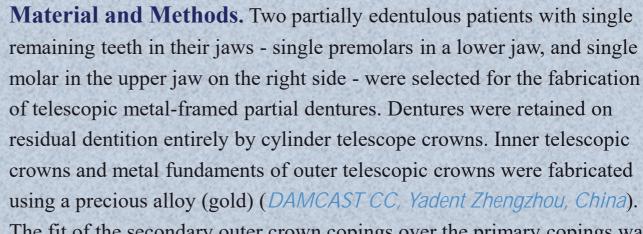
- * Clinic of Dental Prosthetic, University School of Dental Medicine, University of Belgrade, Beograd, Serbia
- **Military Medical Academy, Beograd, Serbia
- * Faculty of Pharmacy and Health, University of Travnik, Bosnia and Herzegovina



Figure 1: Telescopic denture

Introduction. Telescopic crowns and casted partial dentures can be used in many clinical cases regarding prosthetic therapy of partially edentulous patients (Fig. 1).

Purpose. This study examined the impact of telescopic partial dentures on single remaining tooth continuation in a period of 10 years.



The fit of the secondary outer crown copings over the primary copings was evaluated on the master casts as well as in the patient's mouth. Outer crowns were mechanically retained (Palavit G., Heraeus-Kulzer, Germany) in specifically designed boxes in a metal framework of cobalt-chromiummolybdenum alloy (Co-Cr-Mo-W, (Remanium 2000) UNS R30075, ASTM F75, ISO 5832-4) of partial dentures. Indirect light-cure composite

(SinfonyTM, 3M) was used for the fabrication of aesthetic axial and occlusal portions of outer telescope crowns. Acrylic-resin anatomic cross-linked artificial teeth (Optognath, Bayer-Galenika, Galenika, Serbia) were used in the set-up procedure in a semi-adjustable articulator (Artex CT, Amann Girrbach).

Results. Vital abutment teeth survived considerably long - for 10 years, in the situation of single and few tooth abutments, with at least one recall appointment after the1st year of the therapy (Fig. 3).

Conclusion. Telescopic dentures provided aesthetically pleasing and comfortable effects, with prevention of bone loss and a longer life span of remaining premolar and molar teeth.





Metal fundament of an outer telescopic crown positioned on inner telescopic crown situated on master cast

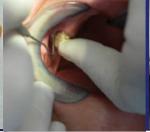


Subsequent checking retaining and friction

Separated outer and inner crown, fabricated with the gold alloy



Telescope crowns (outer and inner) in elastomeric impression of an upper partially edentulous jaw



Positioned metal constructions of outer and inner telescopic crowns in the probing



Probing, positioned oral-palatal side



Fixation complex of the metal part of the outer telescope crown with casted removable denture and separated inner crown



Two eccentrically located vital abutments in the lower jaw after the tooth preparation



Final impression of prepared teeth and partially edentulous lower jaw of a patient



Assessing the friction function of the inner surface of an outer telescope crown and corresponding outer surface of the inner crown



The cementing phase (using Zn-phosphate cement in this case)



The fabricated dentures in the mouth of a patient



References:

- 1. Heker U., Tunn V. Telescope or double crowns. Dental Tribune. 2010. October 25-31
- 2. Rehmann P., Weber A., Wöstmann B., Ferger1 P. Deutsche Zahnärztliche Zeitschrift .2007; 62
- Körber K: Konuskronen-telescope: Einführung in Klinik und Technik; Heidelberg: Hüthig,