



Figure 1: Telescopic denture

Figure 2. Dynamometer



Subsequent checking

of

retaining and

friction

Positioned metal

constructions of outer

and inner telescopic

crowns in the probing

phase

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



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



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



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

Separated outer and

inner crown,

fabricated with the

gold alloy

Probing,

positioned

on

oral-palatal

side

EFFECT OF TELESCOPIC PARTIAL DENTURES ON SINGLE REMAINING TOOTH SURVIVAL

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> 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.

Material and Methods. Two partially edentulous patients with single remaining teeth in their jaws - single premolars in a lower jaw, and single molar in the upper jaw on the right side - were selected for the fabrication of telescopic metal-framed partial dentures. Dentures were retained on residual dentition entirely by cylinder telescope crowns. Inner telescopic crowns and metal fundaments of outer telescopic crowns were fabricated using a precious alloy (gold) (DAMCAST CC, Yadent Zhengzhou, China). 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).

and separated inner crown



The cementing

phase

cement in this case)

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



The fabricated dentures in the mouth of a patient (using Zn-phosphate

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 2:99-103.
- 3. Körber K: Konuskronen-telescope: Einführung in Klinik und Technik; Heidelberg: Hüthig, 1973.

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.