JAW'S FUNCTIONS RESTORATION THROUGH TOTAL METAL-CERAMIC DENTAL BRIDGE

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Keywords: metalceramic bridge, restauration **Abstract:** Currently, the total fixed restorations (total bridges) is an alternative for oral rehabilitation of the patients who do not want or cannot afford dental implants as a prosthetic treatment. This paper presents a clinical event of a patient who has recovered jaw's device functions through a total metal-ceramic bridge

Cuvinte cheie: punți totale metalo-ceramice, reabilitare

Rezumat: La ora actuală restaurările fixe totale (punțile totale) reprezintă o alternativă de reabilitare orală a pacienților care nu doresc sau nu își pot permite tratamentul protetic pe implante dentare. Lucrarea prezintă cazul clinic al unei paciente căreia i s-au restabilit funcțiile aparatului dento-maxilar prin intermediul unei punți totale metalo-ceramice.

INTRODUCTION

Total fixed prosthetic dental arch in a fully restored and can be placed in category expanded fixed partial denture.(2) They can be used clinically in the prosthetic goal but also for establishing a restrain disorder of marginal teeth structure.(2,5)

To restore a dental arch with a total bridge must be present at least 4 or 6 natural teeth that have a good root implant.(4) These teeth pillars supporting total bridge must be prepared in various topographic plans because they provide all the forces exerted on prosthetic work.(3,5)

CLINICAL TRIAL

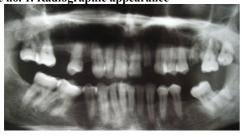
The aged 53 old patient presented to our service for playback device functions jaw, showing her dissatisfaction in terms of physiognomic appearance.

After thorough examination of both clinically and radiological we decided to achieve a total metal-ceramic bridge on hard chrome cobalt.

Radiograph, is aware that remnants of the tooth root 2.2., 2.6, 3.8 chronic marginal periodontitis to 2.7., 2.8 integrity, processes cavity proximal faces of the front teeth, the caries process 1.4.(1) (Picture no. 1)

Clinically, we see the presence of bacterial plaque many processes at medium and deep cavity that were untreated emphasizes a painful and unpleasant physiognomic,(3) the tooth mobility degree 3 of 2.7 (Picture no. 2). We performed extraction of root remnants stranded the tooth 2.7, and root canal treatment

Picture no. 1. Radiographic appearance



Picture no. 2. Arcade jaw after the healing and performing the root canal treatment



The teeth of the lower jaw side of the cavity which had different processes were treated with composite aesthetic crown restoration (Picture no. 3)...

Picture no. 3. Inferior arch



Given this clinical situation there were imbalances occlusion and premature contacts, the patient suffering from transient episodes of painful joints (Pictures no. 4-6).

Picture no. 4. The Occlusion of front teeth



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Picture no. 5. Occlusion on the left side



Picture no. 6. Occlusion on the right side



Upper teeth were prepared by polishing to achieve a metal-ceramic bridge. To add extra strength of this structure, and because the patient was known allergic nickel metal containing it chrome, we decided to include support metallic cobalt chromium alloy. (Pictures no. 7-9)

Picture no. 7. Teeth prepared by polishing



Picture no. 8. Metal-ceramic Bridge - towards occlusive



Picture no. 9. Metal-ceramic bridge - towards mucosal



Picture no. 10. Bridge inserted into the oral cavity



Picture no. 11. Occlusion appearance at the end of treatment



After inserting the metal-ceramic bridge on the field prosthetic jaw, the patient noted the appearance of physiognomic much improved but requiring a period of adaptation to new clinical situation (Picture no. 10)

At the end of treatment, after cleaning, permanent cement deck and making metal-ceramic crown restorations in teeth of the jaw, the patient is declared very happy, paying particular attention to oral hygiene. At six months after the completion of patient treatment and submit to the dental professional brushing.

CONCLUSIONS

- Metal-ceramic fixed prosthetic restorations restore physiognomic appearance of patients with multiple cavity lesions in the frontal group
- Total fixed restoration is a relatively affordable option for oral rehabilitation and recover in a short time device functions Jaw
- Cobalt chrome metal support is more rigid than the nickel chromium and successfully integrates oral and facial system of patients with allergic reactions
- 4. After oral rehabilitation by such complex structures patients become more demanding with themselves considering dental health to its true value

REFERENCES

- Aldescu C. Radiologie pentru studenți și medici stomatologi, Ed. Polirom, 1998.
- Bratu D, Nussbaum R. Bazele clinice şi tehnice ale protezării fixe, ed. Medicală, Bucureşti, 2003.
- Jeremia L, Bratu D, Negruțiu M. Metodologia de examinare în protetica dentară, Ed. Signata Timișoara, 2000
- Românu M, Bratu D, Uram, Ţuculescu S, Muntean M, Fabricki M, Colojoară C, Negruţiu M, Bratu E. Aparatul dento-maxilar date de morfologie funcţională clinică, Ed. Helicon, Timişoara, 1997.
- 5. Smith B. Planning and making Crowns and Bridges. Ediția a IIa, Ed Martin Dunitz 1993.