107. Type And Material of Fixed Prosthodontic Appliances in Patients Living in the Region of Metković

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The aim of this study was to evaluate the type and the aesthetic material in relation to age, gender, level of education, employment, socio-economic status and frequency of visits to the dentist. The examination was performed on 212 patients who had a fixed prosthodontic appliance for more than a year (55% males and 45% females, age 18-80 yrs.). The following conclusions were made: 1. The older patients and retired patients had significantly more bridges than crowns (p<0.05). There was no significant difference between gender and patients with a different level of education in the distribution of crowns and bridges (p>0.05). Patients who visit their dentist regularly have significantly more crowns than bridges than patients who visit their dentist irregularly or when in pain (p<0.01). Age or the first visit to the dentist made no significant influence on crown and bridge prevalence (p>0.05). 2. Almost all fixed prosthodontic appliances older than 10 years were made of porcelain (98%), while acrylic veneer crowns were more frequent in appliances older than 10 or 15 years (p<0.01). Relatively high frequency of porcelain (64%) was recorded in comparison to acrylic material (32%) or chromasite (4%). There was no gender difference with regard to the material used (p>0.05). Patients older than 60 years had more acrylic material compared to younger patients. While patients younger than 39 years had almost exclusively ceramic appliances (p<0.01). Less educated patients had more acrylic veneer appliances. Employed patients had significantly more ceramic appliances than retired patients.

108. Evaluation of Tension and Intensity of Electrogalvanical Currents between Dental Alloys and Silver Amalgam

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It is a well-known fact, that the presence of metals, distant from each other in electrogalvanical sequence, causes the occurrence of electrical tensions in the oral cavity environment and, as a result, there is current flow between them.

Tensions and galvanical currents may cause not only discomfort for the patient, metallic taste, oral local changes on mucous membrane, but they may also have negative influence on immunological, internal or gynecological diseases.

The object of this study was the definition of dimension of tension and intensity of electrogalvanical currents, which are induced by the presence of different dental alloys and silver amalgams in artificial saliva with different pH-value. For the study artificial saliva was used, prepared according to the method of Fusayama in modification of Holland.

The examined alloys were the products of the Kulzer-concern:

- Heraenium NA: chrom-nicelic alloy;
- Heraenium NF and Heraenium P: cobalt-chrom-molybdenic alloys;
- and silver amalgams (polished and unpolished) from the SDI-concern.

The above mentioned alloys and silver amalgams were placed in pairs in artificial saliva solutions with different