

system, during Tae-Kwon-Do, and the use of protection devices during training and competitions. This investigation included 43 examinees, 15 female and 28 male, among which were members of the national representatives of the Republic of Croatia. They were required to complete a questionnaire. The result revealed a very low number of injuries, in fact, lack of injuries in the female and male junior categories. In the male junior and both senior categories 134 injuries were reported, 118 or 88% of them were laceration of the lips, cheeks and tongue. Other injuries to the stomatognathic system represent only 16 injuries or 12% of all injuries. The majority of injuries occurred during training (68%), and 32% during competition. Protection devices (helmets) were used during training only by 5 examinees (11.63%), and during competition (100%). Mouthguards of any type were not used by any examinee. Helmets used are obligatory during competition and prevent the occurrence of injuries to the stomatognathic system, and decrease the severity of injury.

107.

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

Jeremaz S¹, Komar D², Čatović A², Komar V³, Baučić I², Lazić B², Stipetić J², Čelebić A.²

¹Health Centre, Metković

²School of Dental Medicine University of Zagreb

³Private practice, Zagreb, Croatia

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

Hedzelek W, Szuminski K, Swidzinski T.

Department of Propedeutics and Oral Rehabilitation and Department of Biophysics, University of Medical Sciences, Poznan, Poland

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