

**NINTH ANNUAL CONFERENCE OF THE YUGOSLAV MATERIALS
RESEARCH SOCIETY**

YUCOMAT 2007

Hotel "Plaža", Herceg Novi, Montenegro, September 10–14, 2007
<http://www.yu-mrs.org.yu>



Programme and The Book of Abstracts

Organised by:

**Yugoslav Materials Research Society,
Faculty of Metallurgy and Technology, Podgorica
and**

**Institute of Technical Sciences of the
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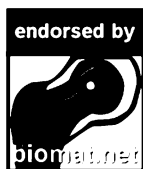
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Prosthodontics, Niš, Serbia

P.S.E.20. APPLICATION ANALYSIS OF MICRO AND NANO COMPOSITES IN RESTORING OF BONE TISSUE OF THE JAW

Z. Ajduković¹, N. Ignjatović², D. Petrović³, V. Savić⁴, B. Kaličanin⁵, M. Kostić⁶, M. Andjelković⁶, S. Nikolov⁴

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P.S.E.21. EVALUATION OF GLASSIONOMER CEMENT APPLICATION FOR PERMANENT BINDING OF PROSTHETIC DENTURES

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S. Ostojić, M. Kićanović

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P.S.E.23. THIN FILMS AND IMPLANT MATERIALS

V. Mirjanić, R. Arbutina

Department of Dentistry, Faculty of Medicine, University of Banja Luka, Republic of Srpska, B&H

P.S.E.24. EFFECT OF HYDROGELS BASED ON 2-HYDROXYETHYL METHACRYLATES TO ERYTHROCYTE RESISTANCE TO HEMOLYSIS

M. Milojević¹, S. Najman², S. Tomić³, Lj. Djordjević¹

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P.S.E.23

THIN FILMS AND IMPLANT MATERIALS

V. Mirjanić, R. Arbutina

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B&H

In this paper presents analysis of thin films in implant materials. On the basis of preliminary results, it can be concluded that thin polymer films between bone and implant achieve bio-compatibility. In addition, analysis will be conducted for other characteristics, such as bio-inertion and bio-functionality.

P.S.E.24

EFFECT OF HYDROGELS BASED ON 2-HYDROXYETHYL METHACRYLATES TO ERYTHROCYTE RESISTANCE TO HEMOLYSIS

M. Milojević¹, S. Najman², S. Tomić³, Lj. Djordjević¹

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In this study hemolytic activity of hydrogels different chemical construction and synthesized under different conditions was examined. The hydrogels are synthesized by radiation and chemical polymerization of 2-hydroxyethyl methacrylate (HEMA), copolymerization of HEMA with itaconic acid (IA), and copolymerization of HEMA, IA with poly (alkylene glycol) (met) acrylates - Bisomers. In this purpose we used hemolytic test on rat erythrocytes. Materials with the same area show different hemolytic activity. According to given hemolysis, all of tested materials can be considered nonhemolytic.

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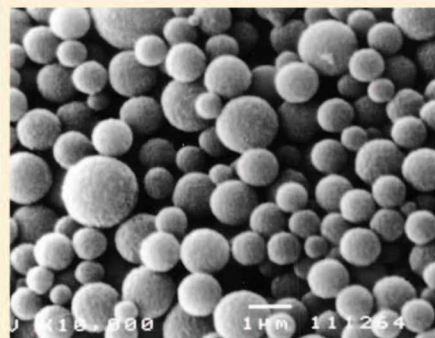
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