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SERBIAN MEDICAL SOCIETY – SMS**

**Akademija medicinskih nauka i Sekcija za kliničku farmakologiju  
Academy of Medical Sciences and Section of Clinical Pharmacology**

**organizuju *Simpozijum*  
organize the *Workshop***

**III NEDELJA BOLNIČKE KLINIČKE FARMAKOLOGIJE  
III WEEK OF THE HOSPITAL CLINICAL PHARMACOLOGY**

17 - 19. novembar 2011.  
November 17<sup>th</sup> - 19<sup>th</sup>, 2011.

# **ЗБОРНИК САЖЕТАКА**

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### **Издавач**

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**III NEDELJA BOLNIČKE KLINIČKE FARMAKOLOGIJE**  
**III WEEK OF THE HOSPITAL CLINICAL PHARMACOLOGY**

17 - 19. novembar 2011.  
November 17<sup>th</sup> - 19<sup>th</sup>, 2011.

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**Akademija medicinskih nauka  
i  
Sekcija za kliničku farmakologiju**

***Simpozijum***

**III NEDELJA BOLNIČKE KLINIČKE FARMAKOLOGIJE**

17.-19. novembar 2011.

Cetvrtak, 17.11.2010. 16,00-17,00 *Registracija učesnika Simpozijuma*

Thursday, 17<sup>th</sup> nov 2011. 4,00-5,00 pm *Registration of the participants*

**17.11.2011 četvrtak** Moderator: Momir Mikov, Ana Sabo, Maca Kastratovic

	17.00-17.15	<b>Pozdravne reči:</b>  <b>Radoje Čolović</b> , predsednik Srpskog lekarskog društva-SLD <b>Pavle Milenkovic</b> , predsednik Akademije medicinskih nauka SLD <b>Radojka Kocijančić</b> , sekretar Akademije medicinskih nauka SLD
	17.15-18,00	<b>THE ROLE OF CLINICAL PHARMACOLOGY IN PERSONALIZED MEDICINE</b> Ingolf Cascorbi, Institute of Experimental and Clinical Pharmacology, Christian Albrechts University of Kiel, Germany
	18.00-18.30	<b>KOREKCIJE DOZA ANESTETIKA U ORLMFH HIRURGIJI MOGUCE SU PRIMENOM BIS MONITORINGA</b> <b>ANESTHETIC DOSE CORRECTION IS POSSIBLE BY USING BIS MONITORING</b> Dragana Maca A. Kastratovic, Nadezda N. Radosic Klinicki Centar Srbije

**18.11.2011 petak** Moderatori: Maca Kastratovic, Zdenko Tomic, Dragan Milovanovic

	9.00-9.20	<b>INSTITUCIONALNI RAZVOJ I PRIMENA PRINCIPA MENADŽMENTA KVALITETA U RADU NACIONALNOG REGULATORNOG TELA SRBIJE</b> <b>INSTITUTIONAL DEVELOPMENT AND IMPLEMENTATION OF QUALITY MANAGEMENT PRINCIPLES IN THE PERFORMANCE OF NATIONAL REGULATORY BODY OF SERBIA</b> Gordana B. Pejović ALIMS
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	9.20-9.40	<b>SUBSTANDARDNI, FALSIFIKOVANI I GENERIČKI LEKOVI</b> <b>SUBSTANDARD, COUNTERFEIT AND GENERIC DRUGS</b> Goločorbin-Kon Svetlana <sup>1,2</sup> , Mikov Momir <sup>1</sup> , Dragan Milovanović <sup>3</sup> , Mladena Laić <sup>1</sup> <sup>1</sup> Medicinski fakultet Novi Sad, Srbija <sup>2</sup> Farmaceutski fakultet Podgorica <sup>3</sup> Medicinski fakultet Kragujevac
	9.40-10.00	<b>ZNAČAJ ISPITIVANJA NEČISTOĆA U FARMACEUTSKIM</b> <b>SUPSTANCAMA I GOTOVIM PROIZVODIMA</b> <b>IMPORTANCE OF IMPURITIES ANALYSIS IN ACTIVE</b> <b>PHARMACEUTICAL INGREDIENTS AND FINISHED</b> <b>PHARMACEUTICAL PRODUCTS</b> Jovović Marija <sup>1</sup> , Kostić Nađa <sup>2</sup> , Rakić Tijana <sup>2</sup> , Vemić Ana <sup>2</sup> , Jančić Stojanović Biljana <sup>2</sup> , Malenović Anđelija <sup>2</sup> <sup>1</sup> Klinički Centar Srbije, <sup>2</sup> Farmaceutski fakultet Beograd
	10.00-10.20	<b>FARMAKOTERAPIJA U STARIH</b> <b>PHARMACOTHERAPY FOR ELDERLY</b> Kornelija Djakovic Medicinski fakultet Novi Sad
	10.20-10.40	<b>БИОМАРКЕРИ СТАРЕЊА</b> <b>BIOMARKERS OF AGING</b> Александар М. Трбовић Medicinski fakultet Beograd
<b>Pauza</b>	<b>10.40-11.00</b>	
	11.00-11.20	<b>ETIČNOST U KLINICKIM ISPITIVANJIMA</b> <b>ETHICS IN CLINICAL TRIALS</b> Milanka Cvetkovic <sup>1</sup> , Violeta Stanimirovic <sup>2</sup> <sup>1</sup> Specijalistička psihijatrijska ordinacija "Prim Dr Milanka Cvetković" <sup>2</sup> ALIMS
	11.20-11.40	<b>IZBOR ULAZNIH PODATAKA ZA PRORACUN VELICINE</b> <b>ADEKVATNOG UZORKA – PRIMER IZ DIZAJNIRANJA</b> <b>OBSERVACIONE STUDIJE</b> <b>CHOICE OF INPUT DATA FOR CALCULATION OF ADEQUATE</b> <b>SAMPLE SIZE – AN EXAMPLE FROM AN OBSERVATIONAL</b> <b>STUDY DESIGNING</b> Dragan R. Milovanovic, <sup>1</sup> Nenad Zivkovic, <sup>2</sup> Goran Mihajlovic <sup>3</sup> and Slobodan M. Jankovic <sup>1,3</sup> <sup>1</sup> Medicinski Fakultet Kragujevac, <sup>2</sup> KBC Zemun, <sup>3</sup> KC Kragujevac
	11.40-12.00	<b>FARMAKOVIGILANCA U KLINIČKIM ISPITIVANJIMA</b> <b>PHARMACOVIGILANCE IN CLINICAL TRIALS</b> Violeta Stanimirovic ALIMS

	12.00-12.20	<b>UČEŠĆE FARMACEUTA U PRIJAVLJIVANJU NEŽELJENIH DELOVANJA LEKOVA</b> <b>REPORTING OF ADVERSE DRUG REACTIONS: PARTICIPATION OF PHARMACISTS</b> Aleksandar Rašković, Ana Sabo, Nebojša Stilinović, Suzana Lalić Medicinski fakultet Novi
<b>Rucak</b>	<b>12.20-13.00</b>	
	13.00-13.20	<b>PRIMENA AMINOGLIKOZIDA KOD NOVORODJENČADI</b> <b>THE APPLICATION OF AMINOGLICOSIDES IN NEWBORNS</b> Ana Sabo, Zdenko Tomic , S. Kisic , S. Saravolac Stefanovic, Olga Horvat, Momir Mikov Medicinski fakultet Novi Sad
	13.20-13.40	<b>TRETMAN ANEMIJE KOD NOVOROĐENČADI</b> <b>ANAEMIA TREATMENT OF NEWBORNS</b> Ljubinka I. Nikolić <sup>1</sup> , Nataša S. Ristovski <sup>1</sup> , Momir M. Mikov <sup>2</sup> , Nadežda N. Radošić <sup>1</sup> , Dragana Maca A. Kastratović <sup>1</sup> <sup>1</sup> Klinički Centar Srbije <sup>2</sup> Klinički centar Novi Sad
	13.40-14.00	<b>DOZIRANJA ANTIBIOTIKA: ZNAČAJ FARMAKOKINETSKIH I FARMAKODINAMSKIH PARAMETARA</b> <b>DOSING OF ANTIBIOTICS: THE IMPORTANCE OF PHARMACOKINETIC AND PHARMACODYNAMIC PARAMETERS</b> Zdenko Tomić, Ana Sabo, Momir Mikov, Svetlana Goločorbin Kon, Boris Milijašević Medicinski fakultet, Novi Sad
	14.00-14.40	<b>OKRUGLI STO: SEROTONIN-CRVENA NIT U KLINICKOJ FARMAKOLOGIJI</b> <b>ROUND TABLE : SEROTONIN – THE RED LINE IN CLINICAL PHARMACOLOGY</b> Moderator: <sup>1</sup> Ivana Timotijević Učesnici <sup>2</sup> Zana Stankovic, Mirjana Todorovic, <sup>3</sup> Slobodan Jankovic, <sup>2</sup> Dragana Maca Kastratovic <sup>1</sup> Medicinski fakultet Beograd <sup>2</sup> Klinički Centar Srbije <sup>3</sup> Medicinski fakultet Kragujevac
	14.40-15.00	<b>FARMAKOEKONOMSKI MODEL ODNOSA TROŠKOVA I EFEKATA TOCILIZUMABA U LEČENJU REUMATOIDNOG ARTRITISA</b> <b>PHARMACOECONOMIC MODEL OF COST-EFFECTIVENESS OF TOCILIZUMAB IN PATIENTS WITH RHEUMATOID ARTHRITIS</b> Slobodan Jankovic, Marina Kostic Medicinski fakultet Kragujevac

<b>Pauza</b>	<b>15.00-15.20</b>	
	15.20-15.40	<b>PRODAJA ANTIBIOTIKA BEZ RECEPTA U JUŽNOBAČKOM OKRUGU</b> <b>ANTIBIOTICS BOUGHT WITHOUT PRESCRIPTION IN SOUTH BAČKA DISTRICT</b> Olga Horvat, Ana Sabo, Vesna Mijatović, Milica Paut, Zdenko Tomić Medicinski fakultet Novi Sad Institut za Javno zdravlje Vojvodina, Novi Sad
	15.40-16.00	<b>DVOGODIŠNJA RETROSPEKTIVNA EKONOMSKA STUDIJA U ANESTEZIJI</b> <b>TWO YEAR RETROSPECTIVE ECONOMIC STUDY AT ANESTHESIOLOGY</b> Branislava M. Majstorović, Branko D. Milaković, Ljubinka I. Nikolić, Žana B. Stanković, Srdjan Z. Markovic, Milos M. Mijajlovic, Dragana Maca A. Kastratovic Klinicki Centar Srbije
	16.0-16.20	<b>KORELACIJA POTROŠNJE REZERVNIH ANTIBIOTIKA I STOPE BOLNIČKIH INFEKCIJA U JEDINICI HIRURŠKE INTENZIVNE NEGE</b> <b>RESERVE ANTIMICROBIALS CONSUMPTION AND CORRELATION TO NOSOCOMIAL INFECTION RATE IN SURGICAL INTENSIVE CARE UNIT</b> Aleksandra Kovačević, Vesna Šuljagić, Viktorija Dragojević-Simić, Predrag Romić, Milić Veljović, Dušan Jandrić Vojnomedicinska Akademija , Beograd
<b>19.11.2011 subota</b> Moderatori: Violeta Stanimirovic, Zana Stankovic		
	09.00-09.20	<b>REGULATIVA VEZANA ZA PRIJAVU I PRAĆENJE NEŽELJENIH REAKCIJA NA LEKOVE</b> <b>ADVERSE DRUG REACTIONS REGULATION</b> Ljiljana. Djukić ALIMIS
	09.20-09.40	<b>DEPRESIJA KAO REZULTAT OŠTEĆENJA PODRUČJA VENTRALNOG TEGMENTUMA KOD PACIJENATA SA SARKOIDOZOM</b> <b>DEPRESSION AS A RESULT OF DAMAGE TO THE VENTRAL TEGMENTAL AREA IN SARCOIDOSIS PATIENTS</b> <sup>1</sup> Mira Vuković , <sup>2</sup> M. Mijailović M , <sup>2,3</sup> Nadezda Šternić, <sup>2,3</sup> V. Vučinić, <sup>2,3</sup> J. Videnović J, <sup>3</sup> S. Filipović S, <sup>3</sup> M. Omcikus <sup>1</sup> Zdravstveni centar Valjevo, <sup>2</sup> Medicinski fakultet Beograd, <sup>3</sup> KCS



	09.40-10.00	<b>INTRAUTERINE INFEKCIJE KAO MOGUĆI FAKTOR RIZIKA ZA SHIZOFRENIJU</b> <b>IN UTERO INFECTION AS A POSSIBLE RISK FACTOR FOR SCHIZOPHRENIA</b> Žana B. Stanković, Ljubinka I. Nikolić, Slobodanka Stefanović, Branislava M. Majstorović, Vera R. Vučićević, Dragana Maca A. Kastratović Klinicki Centar Srbije
	10.00-10.20	<b>TIMSKI PRISTUP PERIOPERATIVNOM TRETMANU PACIJENATA NA PSIHOFAKMAKOLOŠKOJ TERAPIJI</b> <b>PERIOPERATIVE TREATMENT OF PATIENTS ON PSYCHOPHARMACOLOGIC THERAPY</b> Žana B. Stanković, Dragana Maca A. Kastratović, Branislava M. Majstorović, Ljubinka I. Nikolić, Marija Dj. Jovović Klinicki Centar Srbije
	10.20-10.40	<b>DA LI VIRUSI IMAJU POTENCIJAL DA POSTANU LEKOVI – ISKUSTVO BAZIČNIH ISTRAŽIVANJA.</b> <b>USE OF ADENOVIRUSES TO ASSESS THE ROLE OF PVN VASOPRESSIN RECEPTORS IN THE CARDIOVASCULAR RESPONSE TO STRESS IN CONSCIOUS RATS</b> Nina Japundžić-Žigon Medicinski Fakultet Beograd
<b>Pauza</b>	<b>10.40-11.00</b>	
	11.00-11.15	<b>OBAVEZA UPOTREBE VODORASTVORLJIVIH KESA U PREVENCIJI INTRAHOSPITALNIH INFEKCIJA I ISPUNJAVANJE EVROPSKOG STANDARDA 14065</b> <b>COMPULSORY USAGE OF WATERSOLUBLE BAGS IN PREVENTION OF NOSOCOMAL INFECTION AND REALIZATION OF THE EU STANDARD 14065</b> Milena Grubor; Dragana Maca Kastratović, Jasmina Raonić Klinicki Centar Srbije
	11.15-11.30	<b>NANOTEHNOLOGIJA I HIV: BALANS IZMEĐU EFIKASNOSTI I SIGURNOSTI</b> <b>NANOTECHNOLOGY AND HIV: BALANCING EFFICACY AND SAFETY</b> Gordana. Dragović <sup>1</sup> , Djordje. Jevtović <sup>2,1</sup> <sup>1</sup> Medicinski fakultet Beograd, <sup>2</sup> Klinicki Centar Srbije
	11.30-11.45	<b>AKUTNI KORONARDI SINDROM- INOVACIJE U ANTIAGREGACIONOJ TERAPIJI</b> <b>ACUTE CORONARY SYNDROME-INNOVATIONS IN ANTIPLATELET THERAPY</b> Branka Terzic Klinicki Centar Srbije

	11.45-12.00	<b>UTICAJ DEMOGRAFSKIH FAKTORA NA STRUKTURU I BROJ LEKOVA U PORODICAMA</b> <b>DEMOGRAPHIC FACTORS INFLUENCE THE AMOUNT AND STRUCTURE OF DRUGS IN SERBIAN FAMILIES</b> Milica Paut Kusturica, Ana Sabo, Zdenko Tomic, Bojan Stanimirov Medicinski fakultet Novi Sad
	12.00-12.15	<b>UTICAJ FARNEZOID X RECEPTORA NA METABOLIČKI SINDROM</b> <b>INFLUENCE OF FARNESOID X RECEPTOR ON METABOLIC SYNDROME</b> <sup>1</sup> Stanimirov Bojan, <sup>1</sup> Milica Paut-Kusturica, <sup>2</sup> Karmen Stankov, <sup>1</sup> Momir Mikov <sup>1</sup> Medicinski fakultet Novi Sad <sup>2</sup> Klinički centar Vojvodine, Novi Sad
	12.15-12.30	<b>FARNESOID X RECEPTOR IN INFLAMMATORY BOWEL DISEASE</b> <b>FARNEZOID X RECEPTOR U INFLAMATORNOJ BOLESTI CREVA</b> Maja Stojančević, Nebojsa Pavlović, Karmen Stankov, Momir Mikov Medicinski fakultet Novi Sad
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	13.00-13.15	<b>UPOTREBE ACE INHIBITORA U SRBIJI U POREĐENJU SA CRNOM GOROM U 2009. GODINI</b> <b>USE OF ACE INHIBITORS IN SERBIA COMPARED WITH MONTENEGRO IN 2009</b> <sup>1</sup> Boris Milijasevic, <sup>1</sup> Zdenko Tomic Z, <sup>1</sup> Ana Sabo A, <sup>1</sup> Momir Mikov, <sup>2</sup> M. Sahman , <sup>3</sup> V. Andric <sup>1</sup> Medicinski fakultete Novi Sad <sup>2</sup> Farmaceutski fakultet, Podgorica <sup>3</sup> Republički Institut za zdravstveno osiguranje, Beograd, Srbija.
	13.15-13.30	<b>RAZLIKE U POTROŠNJI NSAIL IZMEĐU SRBIJE I DANSKE – DA LI JE DOBRO RAZLIKOVATI SE?</b> <b>DIFFERENCES IN NSAIDS CONSUMPTION BETWEEN SERBIA AND DENMARK – IS IT GOOD TO BE DIFFERENT?</b> J. Čalasan, V. Mijatović, A. Sabo Medicinski fakultet, Novi Sad
	13.30-13.45	<b>PESTICIDI KAO ENDOKRINI DISRUPTERI</b> <b>PESTICIDES AS ENDOCRINE DISRUPTERS</b> S. Vukmirović, A. Sabo, J. Varga, D. Živković, V. Vasović , N. Stilinović Medicinski fakultet Novi Sad

	13.45-14.00	<p><b>POTROŠNJA HIPOLIPEMIKA U SRBIJI U POREĐENJU SA SKANDINAVSKIM ZEMLJAMA: POPULACIONA STUDIJA, 2004-2008</b></p> <p><b>CONSUMPTION OF SERUM LIPID-REDUCING DRUGS IN SERBIA COMPARED WITH SCANDINAVIAN COUNTRIES: A POPULATION-BASED STUDY, 2004–2008</b></p> <p>Nebojša Stilinović, Ana Sabo, Zdenko Tomić, Momir Mikov, Boris Milijašević, Saša Vukmirović, Olga Horvat Medicinski fakultet Novi Sad</p>
	14.00-14.15	<p><b>PROBIOTICI - MOGUĆNOST UPOTREBE U TERAPIJI HIPERHOLESTEROLEMIJE KOD LJUDI</b></p> <p><b>PROBIOTICS: PROSPECTS FOR THEIR USE IN THE TREATMENT OF HYPERCHOLESTEROLEMIA</b></p> <p>Nebojsa Pavlović, Maja Stojančević, Karmen Stankov, Momir Mikov Medicinski fakultet Novi Sad</p>
	14.15-14.30	<p><b>COOPERATION WITH SECTION FOR CLINICAL PHARMACOLOGY IS USEFULL FOR ALL DOCTORS</b></p> <p><b>SARADNJA SA SEKCIJOM ZA KLINICKU FARMAKOLOGIJU JE KORISNA ZA SVE LEKARE</b></p> <p><sup>1</sup>Pavle Milenković , <sup>1,3</sup>Dragoljub Ivanković, Mirjana Mojkić<sup>2,3</sup> <sup>1</sup>Academy of Medical Science, <sup>2</sup>Presidency of Serbian Medical Society, <sup>3</sup>Section for General Medicine</p>

**Zatvaranje simpozijuma**  
**Momir Mikov**

**The role of clinical pharmacology in personalized medicine**

Ingolf Cascorbi, Institute of Experimental and Clinical Pharmacology, Christian Albrechts University of Kiel, Germany

Drug efficacy and side effects are subjects to broad inter-individual differences. In the recent years, the number of successful clinical trials in drug development is declining whereas the number of adverse events reported to the FDA increased substantially. The reasons are complex, but in particular Clinical Pharmacologists contributed to the discovery of genetic causes of interindividual differences in drug response leading to the development of the scientific fields of pharmacogenetics and –genomics contributing substantially to these observations. The identification of hereditary polymorphisms in genes of drug metabolizing enzymes and membrane drug transporters enabled the explanation of varying efficacy and particularly side effects of a number of drugs. Along with these pharmacokinetics-related factors, there is a large progress to clarify the role of polymorphisms in receptors or signal transduction proteins modulating drug efficacy. Thus, pharmacogenomics may facilitate also the identification of novel drug targets and improve the drug development process. Regulatory authorities have recognized pharmacogenetics as an important tool in drug development process and drug safety, however it is not yet accepted in full in medical guidelines. Currently, genetic signatures of tumor tissue as well as germ line variants are regularly considered in oncology, involving human geneticists and pathologists, but other medical disciplines only rarely take advantage of pharmacogenetic information. This may be due to the lack of sufficient information, ethical concerns but also due to limited positive predictive values of a number of known genetic traits. From the technical point of view, efficient genotyping technologies enable today a fast and reliable pharmacogenetic diagnosis, but more standardized prospective clinical studies are required, testing the efficacy and side effects as well as economic benefits of genotype-adapted therapy regimens of carefully selected drugs. Being a discipline of translational research, Clinical Pharmacology has the task to critical view information from molecular biology and genomics-based clinical trials for their use in daily practice and to foster personalize medicine.

## ANESTHETIC DOSE CORRECTION IS POSSIBLE BY USING THE BIS MONITORING

Dragana Maca A. Kastratovic, Nadezda N. Radosic

Clinical Center of Serbia

**Introduction:** BIS monitoring technology may be considered a new “vital sign”, enabling the clinicians to get, for the first time, the new insight into the direct effect of the anesthetics to effectory organ – the brain. This way provides an individual adjustment of anesthetic dosing regime to a patient, what is important for the optimal outcome of anesthesia and surgical treatment. **Objective:** individual adjustment of anesthetic dose to general condition of a patient in relation to different ORLMFS surgical procedures. **Method:** This work is a part of Phase IV academic study conducted in the line with the EU Directives on clinical practice. The study included 20 patients : otological, laryngological and rhinological , ASA I and II. All patients underwent BIS monitoring and non-invasive hemodynamic monitoring, and according, the doses were individually corrected. **Results:** From all together number of 20 patients – doses leaded by BIS, are corrected to 10 patients. Individually adjusted anesthetic doses deviated from recommended doses by  $\pm 20\%$ . **Conclusion:** Recommended dose regime applied in clinical practice should be adjusted according to BIS monitoring values, in the line with the pharmacodynamic effects of anesthetics to brain.





















































































































































