

Prvi kongres
Kardiovaskularnog
Imidžinga
Srbije 2015
sa međunarodnim učešćem
Beograd 1-3. marta 2015.

The First Congress of
Cardiovascular
Imaging of
Serbia
with international participation
Belgrade, 1-3 March 2015

FINALNI PROGRAM

FINAL PROGRAMME



Cardiology Society of Serbia



A Registered Branch of the ESC



<http://www.uksrbs.org>



WELCOME ADDRESS

Welcome to the First Congress of Cardiovascular Imaging in Belgrade, Serbia 2015.

The First Congress on Cardiovascular Imaging of Serbia is the Congress of great importance for our National Society. We expect exceptionally high attendance showing a growing interest among cardiologists and radiologists in both echocardiography and other imaging modalities such as CT, MR and Nuclear cardiology.

The idea to initiate the First congress on Cardiovascular Imaging of Serbia was born in October 2014 aiming to provide the cardiologist of tomorrow with the highest quality education platform for education and research in all imaging modalities.

I would like to mention that the year 2015 is 60th Jubilee year of the Cardiology Society of Serbia, which was founded in 1955.

I would also like to remind of some historical facts, on January 1949 a meeting was held in Brussels with representatives from 14 countries, among which was Yugoslavia with its representative – Academician Professor dr Vojislav Arnovljević.

The future of imaging undoubtedly belongs to young cardiologists and radiologists who are evolving to be „imagers”, embracing several imaging techniques, rather than specialists focusing on one approach. Consequently, Working Group strongly supports training of young specialists in all imaging modalities.

The development of “appropriateness criteria”, and local guidelines has also been given top priority in the activities of our Working Group.

The Working Group on Cardiovascular Imaging of Serbia wants to develop a strong international network, using joint activities with EACVI. The further development of research and education, incorporating multimodality imaging project, in collaboration with other associations worldwide also remains the goal of our Working Group. Our meeting, with 25 experts and distinguished international Professors, is one step further in this cooperation.

Our congress will focus on the clinical scenario demonstrating how multimodality imaging may affect clinical decision making and outcome, through the interaction with leading imaging experts from all over the world.

An important part of the programme is the presentation of the original results. All posters will be moderated. Please make sure to visit the poster area and exchange the ideas with fellow investigators.

The participation of young cardiologists and radiologists and researchers will be stimulated and supported through the organization of imaging campus, teaching session and clinical seminars.

We would like to thank our industry partners Genzyme, GE Healthcare, Philips, Bayer, Beolaser, PharmaSwiss, Pfizer, Galenika, Mark Medica, Actavis, BIOTEC International, Servier, Berlion-Chemie, Alkaloid, Merck Serano InPharm, for the support and the preparation of key presentation for the latest innovations. Please, visit them in the exhibition hall and imaging campus for details.

Belgrade is famous for its history, culture, special spirit and charm, so we are glad to have you as our guests and we hope that you will spend nice time in Serbian capital.

Welcome to Serbia, a country world-known for her great minds who brought fame and reputation to their homeland. The list is pretty long, but let me mention just a couple of them: Nikola Tesla, Milutin Milanković, Mihajlo Pupin, Ivo Andrić, Mileva Marić Einstein, Nadežda Petrović, Vojvoda Živojin Mišić, Vojvoda Stepa Stepanović, Milunka Savić, Stevan Mokranjac, and our contemporary Emir Kusturica and Novak Đoković.

It is a great honor for our Cardiology Society of Serbia to have Her Royal Highness Crown Princess Katherine Karađorđević as a patron of this particularly important meeting that promotes excellence of medical profession.

Thank you for being a part of The First Congress on Cardiovascular Imaging in Belgrade 2015.


Associate Professor **Jelena Stepanović**, MD, PhD, FESC
President of the WG for cardiovascular imaging
of the Cardiology Society of Serbia

OSNOVNE INFORMACIJE O KONGRESU/ BASIC CONGRESS INFORMATION

IME KONGRESA/THE NAME OF THE CONGRESS

Prvi kongres kardiovaskularnog imidžinga Srbije/
The first congress of cardiovascular imaging of Serbia

ORGANIZATOR/ORGANISER

Radna grupa za kardiovaskularni imidžing Udruženja kardiologa Srbije/
Working group on cardiovascular imaging of the Cardiology Society of Serbia
Koste Todorovića 8,
11000 Beograd, Srbija
Tel: +381 11 361 56 28
mail: kontakt@uksrb.org
www.uksrb.org

MESTO ODRŽAVANJA KONGRESA/ CONGRESS VENUE

CROWNE PLAZA hotel, Vladimira Popovića 10, 11070 Beograd, Srbija
Hotel Front Desk: 381-11-2204115
Hotel Fax: 381-11-2204104
Hotel Email: begcp.frontdesk@ihg.com

VРЕМЕ ОДРŽАВАЊА КОНГРЕСА/CONGRESS TIME

1-3. mart 2015. / 1-3 March 2015

KOTIZACIJA/REGISTRATION FEE

Kotizacija za kongres iznosi 100 evra + PDV.
Za studente ulaz je besplatan, uz indeks ili potvrdu.
Registration fee is 100 Euros+VAT.
For students entrance is free with index or other form of confirmation.

ЈЕЗИЦИ КОНГРЕСА/ LANGUAGES OF THE CONGRESS

Zvanični jezici kongresa su srpski i engleski.
The official languages during the congress are English and Serbian.

OSNOVNE INFORMACIJE O KONGRESU/ BASIC CONGRESS INFORMATIONS

PROGRAM INDUSTRIJE/INDUSTRY PROGRAMME

Naši partneri iz imidžing industrije ponudili su bogat edukativni program tokom kongresa od demonstracije ehokardiografskih mašina i radnih stanica na izložbi do radionica/ imidžing kampusa. Predlažemo učesnicima kongresa da iskoristite ovu jedinstvenu priliku i da upoznaju najbolje ponude industrije kardiovaskularnog imidžinga Evrope i sveta u Srbiji.

Our industry partners offer interesting and rich educational programme during the congress, from demonstration of the modern imaging machines on exhibition to imaging campus. We recommend participants to take this unique opportunity to get familiar with the latest medical solutions in cardiovascular imaging of Europe and world, here in Serbia.

DOSTUPNOST INTERNETA/INTERNET AVAILABILITY

U holu hotela Crowne Plaza i salama za predavanje dostupan je besplatan bežični internet.
Free wireless internet is available in the central hall and meeting rooms of Crowne plaza hotel.

AKREDITACIJA KONGRESA

Kongres je dobio EBAC akreditaciju sa 18 bodova.

The congress is accredited by the Europaen Board for Accreditation In Cardiology (EBAC) for 18 hours of external CME credits.

U toku je akreditacija kongresa kod Zdravstvenog saveta Srbije
The accreditation process by the Health council of Serbia is in progress.

SVAKODNEVNE NOVOSTI SA KONGRESA NA INTERNETU/ EVERYDAY CONGRESS NEWS ON INTERNET

Saznajte svakodnevno šta se događalo na kongresu preko interneta. Na sajtu www.uksrb.org pročitajte dnevne izveštaje naših reportera volontera sa ključnih sesija svakog dana.

We provide daily updates and the latest news on the key sessions during the Congress. You can read daily reports written by our volunteer reporters on the web page www.uksrb.org.

OSNOVNE INFORMACIJE O KONGRESU/ BASIC CONGRESS INFORMATIONS

POSTANITE ČLAN RADNE GRUPE ZA KARIDOVASKULARNI IMIDŽING UKS

Članstvo u radnoj grupi za kardiovaskularni imidžing Srbije je besplatno. Postanite član! Dovoljno je da popunite prijavu na registrovnom desku (ne zaboravite broj Vaše licence).

Membership in the WG on cardiovascular imaging of the Cardiology Society of Serbia is free. Become a member! All you have to do is to fill in the registration form on the registration desk (do not forget your license number).

INFORMACIJE O POSTER PREZENTACIJAMA/INFOMRATON REGARDING POSTER PRESENTATIONS

Originalni radovi prihvaćeni za poster prezentaciju treba da budu postavljeni u periodu od 09:00 do 20:00. Prezentujući autor treba da bude pored postera u toku sesije "moderirani posteri" (od 10:00 do 11:00).

Original abstract accepted for poster presentation should be displayed from 09:00 -20:00. The presenting author should be present by the poster during moderated poster sessions (from 10:00-11:00).

NAGRADA ZA NAJBOLJE MLADE AUTORE / THE BEST YOUNG AUTHORS AWARD

Međunarodni žiri pregledaće sve postere i odabrati 10 najboljih postera mlađih autora (starosti do 40 godina), kojima će biti dodeljenje nagrade.

International jury will review all posters and select top 10 posters presented by young authors (below 40 yrs) who will be rewarded.



POČASNI ODBOR/ Honorable committee

Članovi/ Members

Akademik **Nikola Hajdin**, predsednik Srpske Akademije Nauka i Umetnosti / President,
Serbian Academy of Science and Art

Akademik **Ljubiša Rakić**, potpredsednik Srpske Akademije Nauka i Umetnosti za
medicinske nauke/ vice-president, *Serbian Academy of Science and Art*

Akademik **Veselika Šušić**, sekretar medicinskog odeljenja Srpske Akademije Nauka i
Umetnosti/ secretary, *department of medical sciences*

Akademik **Vladimir Kanjuh**, predsednik, Udruženje za aterosklerozu Srbije/
President, *Serbian Atherosclerosis Society*

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Belgrade

Akademik **Nebojša Lalić**, dekan medicinskog fakulteta u Beogradu/ Dean, Medical faculty
of Belgrade

Asistent dr **Zlatibor Lončar**, ministar zdravlja Republika Srbije/ Ministry of health, Republic
Serbia

Profesor dr **Miljko Ristić**, direktor Univerzitskog Kliničkog Centra Srbije/ Director,
University Clinical Center of Serbia

Profesor dr **Zoran Radovanović**, direktor Univerzitskog Kliničkog Centra Niš/ Director,
University Clinical Center Niš

Profesor dr **Robert Jung**, v.d. direktor, Institut za kardiovaskularne bolesti Vojvodine/
Director, Institute for cardiovascular diseases Vojvodine

Profesor dr **Nebojša Arsenijević**, direktor Univerzitskog Kliničkog Centra Kragujevac/
Director, University Clinical Center Kragujevac

Profesor dr **Boško Đukanović**, direktor Instituta za kardiovaskulane bolesti „Dedinje“/
Director, Institute for cardiovascular diseases „Dedinje“

Profesor dr **Aleksandra Aranđelović**, direktor Kliničko-bolničkog centra „Zvezdara“/
Director, clinical –hospital center „Zvezdara“

Asistent dr **Marija Zdravković**, direktor Kliničko-bolničkog centra „Bežanijska Kosa“/
Director, clinical-hospital center „Bežanijska Kosa“

Pukovnik, profesor dr **Zoran Šegrt**, zastupa načelnika Vojnomedicinske akademije/ Acting
Head of the Military Medical Academy

Profesor dr **Radisav Šćepanović**, direktor Kliničko-bolničkog centra „Dr Dragiša Mišović“/
Director, Clinical-hospital center „Dr Dragiša Mišović“

Docent dr **Milica Ašanin**, direktor Urgentnog centra Univerzitskog Kliničkog centra
Srbije/ Director, Emergency center of the University Clinical Centre of Serbia

Akademik **Radoje Čolović**, predsednik Srpskog lekarskog društva/ president, Serbian
Medical Association

Akademik **Miodrag Ostojić**, bivši predsednik Udruženja kardiologa Srbije/ Past president,
Cardiology society of Serbia

Profesor **Zorana Vasiljević**, bivši predsednik Udruženja kardiologa Srbije/ Past president,
Cardiology society of Serbia

Profesor **Milan Nedeljković**, bivški predsednik Udruženja kardiologa Srbije /Past president,
Cardiology society of Serbia

Profesor dr **Zoran Perišić**, predsednik Udruženja kardiologa Srbije/President, Cardiology
society of Serbia

PREDSEDNIK KONGRESA*President of the congress*

Jelena Stepanović

GENERALNI SEKRETARI KONGRESA*General Secretary of the congress*

Vojislav Giga

Danijela Trifunović-Zamaklar

ORGANIZACIONI ODBOR/ORGANIZING COMMITTEE**Članovi/ Members**

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Banović Marko

Bačić Dragana

Boričić - Kostić Marija

Boškovic Srđan

Dragović Mirjana

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Kocica Mladen

Kostić Jasminka

Krljanac Gordana

Zdravković Marija

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nović Mina

Ristić Miljko

Ristić Andelka

Ristić D. Arsen

Stepanović Jelena

Stojšić Anastazija

Trifunovic –Zamaklar

Danijela

Vasić Dragan

Šobić-Šaranović

Dragana

INOSTRANI PREDAVAČI PO POZIVU

INVITED INTERNATIONAL FACULTY

Athanasopoulos George (GR), Director Noninvasive Diagnostics Department Cardiology Section, President of Scientific Association of Onassis Surgery Center, Athens

Apor Astrid (HU), Heart Center, Semmelweis University Budapest

Barakovic Fahir (BiH), Department for internal medicine, Clinical center Tuzla

Bervar Mojca (SI), Head, Department for noninvasive diagnostic, Cardiology clinic, University clinical center Ljubljana

Civaia Filippo (FR), Chief of cardiac RMN at the Cardiothoracic Centre of Monaco, Monte Carlo

Guazzi Marco (IT), I.R.C.C.S. Policlinico San Donato Heart Failure Unit, Milan, Chair Exercise and Translational Science Nucleus of the European Society of Cardiology

Habib Gilbert (FR), Chair of the Cardiology Department, La Timone Marseille, President, European Association of Cardiovascular Imaging (EACVI)

Lazarević Aleksandar (RS-BiH), Professor of Internal Medicine/Cardiology, School of medicine, University of Banja Luka, Republic Srpska

LoydDini Frank (IT), Cardiovascular Diseases Unit 1, Cardiac, Thoracic and Vascular Department, Azienda Universitaria Ospedaliera Pisana; Head, Clinical Service Heart Failure & Echo Stress Laboratory, Pisa

Lacusio Laura (FR), Cardiologist, Cardiothoracic Centre of Monaco, Department for noninvasive imaging, Monte Carlo

Karatasisakis George (GR), Cardiology, Onassis Surgery Center, Athens

Kušljugić Zumreća (B-H), Head, Department for echocardiography, Clinical center Tuzla

Jovanova Silvana (MK), University clinic for cardiology, Skopje, Professor, Medical School, University Sv Kiril i Metodij, Skopje

Popescu Bogdan (RO), University of Medicine and Pharmacy "Carol Davila", Bucharest, Director, Echocardiography Laboratory, Institute of Cardiovascular Diseases "Prof Dr C Iliescu", President-Elect, European Association of Cardiovascular Imaging (EACVI)

Preradović Tamara (RS-BiH), Head, Clinic of Cardiovascular Diseases, Clinical Center Banja Luka, Republic Srpska

Rigo Fausto (IT), Head of Division of Cardiology dell'Angelo Hospital via Paccagnella Mestre-Venice

Salustri Alessandro (UA), Sheikh Khalifa Medical City, Abu Dhabi

Scisło Piotr (PL), Chair, I Department of Cardiology, Medical University of Warsaw

Somerville Jane (UK), Emeritus Professor at Imperial College of London

Sicari Rosa (IT), CNR Institute of Clinical Physiology, Pisa

Srbinovska Elizabeta (MK), Head, Department for echocardiography, University clinic for cardiology, Skopje

Sutherland George (UK), Visiting Professor and Senior Research Fellow, University of Leuven/University Ziekenhuis Brussels, Belgium

Šeparović-Hanževački Jadranka (CR), Head, Echo and heart hemodynamics, University hospital centre Zagreb

Varga Albert (HU), Professor of Cardiology, University of Szeged

Vulić Duško (RS-BiH), Professor of Internal Medicine/Cardiology, School of medicine, University of Banja Luka, Republic Srpska

TIPOVI SESIJA

SESSION TYPES

Sesija za učenje/ *Teaching session*

Glavna sesija/ *Main session*

Interaktivna sesija sa prikazima slučajeva (DICE)/ *DICE session*

Multimodaliteti imidžinga/ *Multimodality imaging*

Klinički fokusirana sesija/ *Clinical seminar*

Preporučena sesija/ *Recommended session*

Ssimpozijumi industrije/ *Symposium*

Radionice/ *Imaging campus*

GLAVNE TEME KONGRESA

MAIN CONGRESS THEMES

1. Multimodaliteti u imižingu

Mutimodality imaging

2. Infektivni endokarditis

Infective endocarditis

3. Kvantifikacija miokardne mehanike (u svakodnevnoj kliničkoj praksi)

Myocardial mechanics quantification(in everyday clinical practice)

RADIONICE IMAGING CAMPUS

2. mart. 2015. ponedeljak
March 2nd 2015, Monday

Organizovano od strane kompanije Philips/Organised by company Philips
Astrid Apour (Budimpešta, HU)

11:00-12:30 **Korist novih modaliteta imidžinga (speckle tracking ehokardiografija, 3D ehokardiografija) u svakodnevnoj kliničkoj praksi**

Utility of new imaging modalities (speckle tracking echocardiography, 3D- echocardiography) in the daily clinical practice

15:30-17:00 **Korist novih modaliteta imidžinga (speckle tracking ehokardiografija, 3D ehokardiografija) u svakodnevnoj kliničkoj praksi**

Utility of new imaging modalities (speckle tracking echocardiography, 3D- echocardiography) in the daily clinical practice

3. mart. 2015. utorak
March 3rd 2015. Tuesday

**Organizovano od strane kompanije General Electric/
Organized by company General Electric**
Bogdan Popescu (Bukurešt, RO)

11:00-12:30 **Savremene ehokardiografske tehnike u kliničkoj praksi – interaktivna radionica**

Modern echo techniques in clinical practice - hands on workshop

16:30-18:00 **Savremene ehokardiografske tehnike u kliničkoj praksi – interaktivna radionica**

Modern echo techniques in clinical practice - hands on workshop

PREGLED PROGRAMA

PROGRAMME OUTLINE

Subota, 28. februar / Saturday, February 28th

15:00-18:00 Registracija/Registration

Nedelja, 1. mart / Sunday, March 1st

| | |
|--------------------|------------------------------------|
| 08:00-20:00 | Registracija/Registration |
| 08:30-10:00 | Predavanja/ Lectures |
| 10:00-10:30 | Pauza/ Coffee break |
| 10:30-12:00 | Glavna sesija/ Main session |
| 12:00-12:30 | Pauza |
| 12:30-14:00 | Opening ceremony |
| 14:00-15:00 | Koktel/Coctail |
| 15:00-16:30 | Predavanja/ Lectures |
| 16:30-18:00 | Predavanja/Lectures |
| 18:00-18:30 | Pauza/ break |
| 18:30-20:00 | Lectures |
| 21:00 | Faculty dinner |

Ponedeljak, 2. mart / Monday, March 2nd

| | |
|--------------------|--|
| 08:00-20:00 | Registracija/Registration |
| 08:30-10:00 | Predavanja/ Lectures |
| 10:00-11:00 | Moderirani posteri/Moderated posters |
| 10:00-11:30 | Radionica organizovana od strane kompanije Philips/ Imaging campus organized by Philips |
| 11:00-12:30 | Predavanja/Lectures |
| 12:30-13:00 | Pauza/Lunch break |
| 13:00-14:30 | Predavanja/Lectures |
| 14:30-15:00 | Pauza/ Coffee break |
| 15:00-16:30 | Predavanja/Lectures |
| 15:30-17:00 | Radionica organizovana od strane kompanije Philips/ Imaging campus organized by Philips |
| 16:30-17:30 | Predavanja/Lectures |
| 17:30-18:30 | Predavanja/Lectures |

Utorak, 3. mart 2015/ Monday, March 3rd 2015

| | |
|--------------------|--|
| 08:00-15:00 | Registracija/Registration |
| 08:30-10:00 | Predavanja/ Lectures |
| 10:00-11:00 | Moderirani posteri/ Moderated posters |
| 10:00-11:30 | Radionica organizovana od strane kompanije General Electric/ Imaging campus organized by General Electric |

| | |
|--------------------|--|
| 11:00-12:30 | Predavanja/Lectures |
| 12:30-13:00 | Pauza/Lunch break |
| 13:00-14:30 | Predavanja/Lectures |
| 14:30-14:45 | Simpozijum BIOTEC International/ Symposium BIOTEC International |
| 14:45-15:00 | Pauza/ Break |
| 15:00-16:30 | Predavanja/Lectures |
| 16:30-17:30 | Predavanja/Lectures |
| 16:30-18:00 | Radionica organizovana od strane kompanije General Electric/ Imaging campus organized by General Electric |
| 17:30-18:30 | Predavanja/Lectures |
| 19:00-19:30 | Zatvaranje kongresa |

Nedelja, 1. mart

Sunday, 1st March

08:30-10:00 Sesija za učenje/*Teaching session*

Sala 1

OSNOVE EHOKARDIOGRAFSKE PROCENE ANATOMIJE I FUNKCIJE SRCA 2015

*BASIC PRINCIPLES OF ECHOCARDIOGRAPHIC ANATOMICAL AND
FUNCTIONAL HEART ASSESSMENT 2015*

Predsedavajući/Chairpersons: (M. Deljanin-Ilić, Niška Banja, RS), M. Petrović (Beograd, RS), M. Krotin (Beograd, RS)

08:00 **Standardna M-mod i 2D echokardiografija: još uvek validni u proceduri hipertrofije leve komore** (M. Deljanin-Ilić, Niška Banja, RS)

Standard M-mode and 2D echocardiography: still valid for the assessment of left ventricular hypertrophy

08:22 **Kvantifikacija dimenzija i funkcije desne komore** (T. Preradović, RS)
Quantification of right ventricular dimension and function

08:45 **Leva i desna pretkomora: veličina i funkcija** (A. Stojšić, Sremska Kamenica, RS)

Left and right atrium: size and function

09:07 **Procena dijastolne funkcije** (M. Petrović, Beograd, RS)

Assessment of diastolic function

Nedelja, 1. mart

Sunday, 1st March

08:30-10:00 Sesija za učenje/*Teaching session*

Sala 2

MIOKARDNA MEHANIKA: OD OSNOVIH PRINCIPA DO KLINIČKE PRIMENE (I DEO)

MYOCARDIAL MECHANICS: FROM BASIC PRINCIPLES TO CLINICAL APPLICATION (PART I)

Predsedavajući/Chairpersons: M. Dekleva (Beograd, RS), D. Trifunović (Beograd, RS), I. Nedeljković (Beograd RS)

08:00 Miokardna mehanika: od anatomije do funkcije leve komore
(M. Kočica, Beograd, RS)

Myocardial mechanics: from LV anatomy to LV function

08:30 2D-ehokardiografska kvantifikacija miokardne mehanike: principi i tehnike (I. Jovanović, Beograd, RS)

Myocardial mechanics quantification by 2D - Echo: basic principles and techniques

09:30 Analiza miokardne mehanike u proceni miokardne ishemije i vijabilnosti (A. Đorđević-Dikić, Beograd, RS)

Myocardial mechanics analysis in the setting of myocardial ischemia and viability

10:00-10:30 Pauza / Coffee break

Nedelja, 1. mart

Sunday, 1st March

10:30-12:00 Glavna sesija/*Main session*

Sala 1+2

INFEKTIVNI ENDOKARDITIS: značaj multimodaliteta imidžinga *INFECTIVE ENDOCARDITIS: the importance of multimodality imaging*

Predsedavajući/Chairpersons: B. Vujišić-Tešić (Beograd, RS), G. Habib (Marseille, FR), Ida Jovanović (Beograd, RS), D. Kalimanovska-Oštrić (Beograd, RS)

10:30 **Multimodaliteti imidžinga u infektivnom endokarditisu** (G. Habib, Marseiile, FR)

Multimodality imaging in infective endocarditis

10:52 **Infektivni endokarditis: složene situacije** (B. Obrenović, Beograd, RS)
Infective endocarditis: difficult circumstances

11:14 **Infektivni endokarditis veštačkih valvula** (B. Vujišić-Tešić, Beograd, RS)
Infective endocarditis of the prosthetic valve

11:36 **Infektivni endokarditis: ključne poruke iz ESC preporuka**
(B. Ivanović, Beograd, RS)

Infective endocarditis: ESC recommendations - key points

Nedelja, 1. mart

Sunday, 1st March

12:30-14:00 SVEČANO OTVARANJE

THE OPENING CEREMONY

**PREDSEDNŠTO: J. Stepanović, Z. Perišić, G. Habib,
N. Lalić, B. Vujišić-Tešić, I. Jovanović, M. Ostojić**

Pozdravna reč predsednika radne grupe kardiovaskularnog imidžinga

Udruženja kardiologa Srbije

*Welcome address by the president of the WG on cardiovascular imaging of
Cardiology society of Serbia*

Jelena Stepanović (Beograd, RS)

*

Pozdravna reč predsednika Udruženja kardiologa Srbije

Welcome address by the president of Cardiology society of Serbia

Zoran Perišić (Niš, RS)

*

Pozdravna reč predsednika Evropske asocijacije

za kardiovaskularni imidžing

*Welcome address by the president of the
European Association of Cardiovascular Imaging*

Gilbert Habib (Marseille, FR)

*

Pozdravna reč direktora Kliničkog Centra Srbije

Welcome address by the director of Clinical Center of Serbia

Miljko Ristić, (Beograd, RS)

*

**Pozdravna reč akademika Miodraga Ostojića,
bivšeg predsednika Udruženja kardiologa Srbije**

*Welcome address by the academician Miodrag Ostojić,
past president of Cardiology society of Serbia*

(Beograd, RS)

*

Pozdravna reč dekana Medicinskog fakulteta

Univerziteta u Beogradu i promocija profesora po pozivu

*Welcome address by the dean of School of Medicine,
University of Belgrade and visiting professor inauguration*

Nebojša Lalić (Beograd, RS)

Nedelja, 1. mart
Sunday, 1st March

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Memorijalno predavanje Profesor Natalija Simin

Professor Natalija Simin honorary lecture:

„Past, Present and Future of Deformation Imaging“

George Sutherland (London, UK)

*

Pozdravna reč ministra zdravlja Republike Srbije i otvaranje kongresa

Opening address by the Ministry of health, Republic of Serbia

Zlatibor Lončar (Beograd, RS)

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Otvaranje kongresa

Opening address

NJKV Princeza Katarina Karađorđević/

HRH Crown princess Katarina Karađorđević

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Muzički program, akademski hor „Obilić“

Musical programme, by academic choir „Obilić“

14:00-15:00 KOKTEL

COCTAIL

genzyme
A SANOFI COMPANY

Nedelja, 1. mart

Sunday, 1st March

15:00-16:30 Klinički seminar/*Clinical seminar*

Sala 1

PROCENA BOLESNIKA SA ASIMPTOMATSKOM VALVULARNOM MANOM I EHO NAKON OPERACIJE

**ASSESS OF ASYMPOMATIC VALVULAR HEART DISEASE AND ECHO
AFTER SURGERY**

Predsedavajući/Chairpersons: Z.Kušljugić (Tuzla, BA), B. Ivanović (Beograd, RS), Lj. Jovović (Beograd, RS)

15:00 Asimptomatska aortna stenoza (Z. Kušljugić, Tuzla, BA)

Asymptomatic aortic stenosis

15:15 Asimptomatska mitralna regurgitacija (B. Vujisić-Tešić, Beograd, RS)

Asymptomatic mitral regurgitation

15:30 Asimptomatska aortna regurgitacija (A. Nikolić, Beograd, RS)

What is the best parameter to assess LV function?

**15:45 Donošenje odluke za interventne kardiologe kod valvulopatija:
uloga stres eha** (G. Athanasopoulos, Athens, GR)

Decision making of interventional cardiologists concerning the valve disease: the role of stress echo

16:00 Echo nakon zamene zalisika (A. Salustri, Abu Dhabi, UA)

Echo after the valve replacement

**16:15 Ehokardiografija u detekciji komplikacija nakon kardiovaskularne
hirurgije** (S. Bošković, Beograd, RS)

Echo in detection of cardiovascular surgery complications

Nedelja, 1. mart

Sunday, 1st March

15:00-16:30 Multimodaliteti imidžinga/*Multimodality imaging*

Sala 2

IMIDŽING MODALITETI KOD BOLESTI PERIKARDA I U SRČANOJ INSUFICIJENCIJI

*IMAGING MODALITIES IN PERICARDIAL DISEASE AND CONGESTIVE
HEART FAILURE*

Predsedništvo/Chairpersons: A. D. Ristić (Beograd, RS), P. Otašević (Beograd, RS), D. Trifunović (Beograd, RS)

15:00 **Multimodaliteti imidžinga u tamponadi srca** (A. D. Ristić, Beograd, RS)
Cardiac tamponade - Multimodality imaging

15:18 **Imidžing tehnike u dijagnozi miokarditisa i inflamatorne kardiomiopatije**
(D. Trifunović, Beograd, RS)

*Multimodality imaging in diagnosis of myocarditis and inflammatory
cardiomyopathy*

15:36 **Multimodaliteti imidžinga u srčanoj insuficijenciji** (P. Otašević,
Beograd, RS).

Heart failure - Multimodality imaging

15:54 **Multimodaliteti imidžinga u dijagonističkoj slagalici konstriktivnog
perikarditisa** (M. Boričić-Kostić, Beograd, RS)

Multimodality imaging in diagnostic puzzle of constrictive pericarditis

16:12 **Magnetna rezonanca u bolestima perikarda** (M. Pavlović, D. Ilić, Niš, RS)
MRI in pericardial diseases

Nedelja, 1. mart

Sunday, 1st March

16:30-18:00 Preporučena sesija/*Recommended session*

Sala 1

SRČANE MASE, PLUĆNI EMBOLIZAM I PLUĆNA HIPERTENZIJA

*CARDIAC MASSES, PULMONARY EMBOLISM AND PULMONARY
HYPERTENSION*

Predsedništvo/Chairpersons: E. Srbinovska (Skopje, MK), A. Salustri (Abu Dhabi, UA), D. Kalimanovska–Oštrić (Beograd, RS)

16:30 **Srčane mase u Ujedinjenim Emiratima** (A. Salustri, Abu Dhabi, UA)
Cardiac masses in the United Arab Emirates

16:48 **Miksomi srca**(B. Obrenović-Kirčansk, Beograd, RS)
Cardiac myxomas

17:06 **Plućni tromboembolizam - da li ehokardiografija može biti korisna?**
(Srbinovska, MK)
Pulmonary thromboembolism - can echocardiography be useful?

17:24 **Značaj CT-a u plućnom embolizmu: zlatni standard** (G. Koraćević, Niš,
Beograd)
The role of CT in pulmonary embolism: a gold standard

17:42 **Hronična plućna hipertenzija: kako nam modaliteti kardiovaskularnog
imidžinga mogu pomoći?** (D. Kalimanovska–Oštrić, Beograd, RS)
Chronic pulmonary hypertension: the role of multimodality imaging?

Nedelja, 1. mart

Sunday, 1st March

16:30-18:00 Multimodaliteti imidžinga/*Mutimodality imaging*

Sala 2

MULTIMODALITETI KARDIOVASKULARNOG IMIDŽINGA U HITNOJ SLUŽBI

*MULTIMODALITY OF CARDIOVASCULAR IMAGING IN EMERGENCY CARE
UNITS*

Presedavajući/Chairperons: M. Radosavljević-Radovanović (Beograd, RS), A. Ristić (Beograd, RS), A. Stojšić (Sremska Kamenica, RS)

16:30 **Ehokardiografija u akutnom koronarnom sindromu** (T. Stanojlović,
Niš, RS)

Echo in acute coronary syndrome

16:48 **Ehokardiografija i druge metode u akutnom bolu u grudima**
(M. Radosavljević-Radovanović, Beograd, RS)

Echo and other modalities in acute chest pain

17:06 **Ehokardiografija u bolestima valvula** (B. Radišić, Sremska Kamenica, RS)
Echo in valve disease

17:24 **Značaj ehokardiografije u akutnoj srčanoj insuficijenciji**
(S. Jovanova, Skoplje, RM)

Usefulness of echocardiography in acute heart failure

17:42 **Ultrazvuk pluća u urgentnim situacijama** (A. Ristić, Beograd, RS)
Lung ultrasonography in emergencies

18:00-18:30 Pauza / Break

Nedelja, 1. mart

Sunday, 1st March

18:30-20:00 Preporučena sesija/*Recommended session*

Sala 1

MULTIMODALITI IMIDŽINGA: ZAMKE U INTERPRETACIJI NALAZA *MULTIMODALITY IMAGING: PITFALLS IN THE INTERPRETATION*

Predsedništvo/ Chairpersons: B. Vujisić- Tešić (Beograd, RS), Lj. Jovović (Beograd, RS)

18:30 **Slučaj br 1** (M. Vuković, Beograd, RS)

Case No 1

18:48 **Slučaj br 2** (G. Draganić, Beograd, RS)

Case No 2

19:06 **Slučaj br 3** (I. Rakočević, Beograd, RS)

Case No 3

19:24 **Slučaj br 4** (B. Borozanović, Beograd, RS)

Case No 4

19:42 **Slučaj br 5** (I. Živković, M. Dragović, Beograd, RS)

Case No 5

Nedelja, 1. mart

Sunday, 1st March

18:30-20:00 Multimodaliteti imidžinga/*Multimodality imaging*

Sala 2

IZAZOVI U DIJAGNOZI KARDIOMIOPATIJA

CHALLENGES IN DIAGNOSIS OF CARDIOMYOPATHIES

Predsedništvo/ Chairpersons: A. Varga (Segedin, HU), R. Maksimović (Beograd, RS), A. D. Ristić (Beograd, RS)

18:30 Hipertrofična kardiomiopatija - uloga različitih imižing modaliteta u dijagnozi i terapiji (A. Varga, Segedin, HU)

Hypertrophic cardiomyopathy - the role of different imaging modalities in the diagnosis and therapy

18:45 Nekompaktna kardiomiopatija: samo jedna ili više bolesti (M. Dekleva, Beograd, RS)

Non-compaction cardiomyopathy: only one or more diseases

19:00 Takotsubo kardiomiopatija: multimodaliteti imidžinga (M. Petrović, Beograd, RS)

Takotsubo cardiomyopathy: multimodality imaging

19:15 Multimodaliteti imidžinga u dilatativnoj kardiomiopatiji: savremen pogled (O. Petrović, Beograd, RS)

Multimodality imaging in dilated cardiomyopathy: state of the art

19:30 ARVD: da li je ehokardiografija dovoljna (F. Baraković, Tuzla, BA)

ARVD: is echocardiography enough?

19:45 Magnetna rezonanca kao zlatni standard (R. Maksimović, Beograd, RS)

MRI: the gold standard

21:00 VEĆERA ZA PREDAVAČE

FACULTY DINNER

Ponedeljak, 2. mart

Monday, 2nd March

08:30-10:00 Klinički fokusirana sesija/*Clinical seminar*

Sala 1

VIŠESTRUKE VALVULARNE BOLESTI

MULTIVALVULAR HEART DISEASE

Predsedništvo/ Chairpersons: M. Krotin(Beograd, RS), S. Dimković (Beograd, RS), B. Ivanović (Beograd, RS)

08:30 Mitralna stenoza i regurgitacija (M. Krotin, Beograd, RS)

Mitral stenosis and mitral regurgitation

08:48 Koliko je bitna pridružena trikuspidna valvulopatija? (G. Karatasakis, Athens, GR)

How important is the tricuspid valve involvement?

09:06 Aortna stenoza i regurgitacija (B. Ivanović, Beograd, RS)

Aortic stenosis and aortic regurgitation

09:24 Aortna stenoza i mitralna regurgitacija (D. Trifunović, Beograd, RS)

Aortic stenosis and mitral regurgitation

09:42 Višestruke valvularne bolesti - izazovi u ehokardiografskoj proceni

(J. Šćeparović- Hanzevački, Zagreb, CR)

Multiple valve disease - challenges in ECHO assessment

Ponedeljak, 2. mart Monday, 2nd March

08:30-10:00 Kliničkifokusiranasesija/Clinical seminar

Sala 2

RAZLIČITI MODALITETI IMIDŽINGA U PROCENI USM KOD ODRASLIH

DIFFERENT IMAGING MODALITIES FOR ASSESSING GUCH PATIENTS

Predsedništvo/Chairpersons: J Somerville (London, UK), B. Vujisić-Tešić (Beograd, RS), D. Kalimanovska-Oštrić (Beograd, RS)

08:30 **Rendgenski snimak grudnog koša-jednostavan, jeftin i informativan** (J. Somerville, London, UK)

The chest X ray – simple, cheap and informative.

08:45 **Elektrokardiografija u dijagnozi i prognozi odraslih bolesnika sa USM** (A. Nikolić, Beograd, RS)

Electrocardiography in the diagnosis and prognosis of GUCH patients

09:00 **Ehokardiografija kod bolesnika sa USM - šta tražiti, šta možemo da dobijemo i koje informacije su važne** (Lj. Jovović, Beograd, RS)

Echocardiography in GUCH patients - what is there to look for, what can one get and what kind of information is important

09:15 **Multimodaliteti imidžinga u sagledavanju anomalija koronarnih arterija kod odraslih bolesnika sa USM** (D. Kalimanovska-Oštrić, Beograd, RS)

The role of multimodality imaging in identifying coronary artery anomalies in GUCH patients

09:30 **Fetalna ehokardiografija** (Ida Jovanović, Belgrade, RS)

Fetal echocardiography

09:45 **Magnetna rezonanca kod bolesnika sa USM odraslih** (T. Ilišić, Belgrade RS)

Magnetic resonance imaging in GUCH patients

Ponedeljak, 2. mart Monday, 2nd March

10:00-11:0 Poster zona/Poster area

MODERIRANI POSTERI/ Moderated posters

SRČANA INSUFICIJENCIJA I KARDIOMIOPATIJE/ HEART FAILURE AND CARDIOMYOPATHIES

Mirjana Krotin (Beograd, RS), Arsen Ristić (Beograd, RS)

- 1. Ejekcionalna frakcija, veličina leve komore i terapiski pristup bolesnicima sa sistolnom srčanom insuficijencijom.** Suzana Milutinović, Gordana Mladenović Marković, Milan Mihajlović. Opšta Bolnica Leskovac
- 2. Perikardna efuzija kao prognostički marker u srčanoj slabosti - „lako je uočiti još lakše zaboraviti“.** Svetlana Petrović-Nagorni, Snežana Ćirić-Zdravković, Dragana Stanojević, Vesna Mitić, Ružica Janković-Tomašević, Emina Dimitrijević. Klinika za kardiovaskularne bolesti, KC Niš
- 3. Značaj ehokardiografije u proceni funkcije leve komore kod bolesnika na adjuvantnoj terapiji: Kombinovana terapija antraciklinima i trastuzumabom.** Krstić Ivana, Marina Deljanin - Ilić, Svetislav Vrbić. Institut za lečenje i rehabilitaciju - Niška Banja, Niš
- 4. Echo nakon transplantacije srca i LVAD implantacije. Emilija Nestorovic.** Klinički centar Srbije, Odeljenje intezivne nege za transplantaciju srca, LVAD i ECMO.
- 5. Da li kontraktilna rezerva leve komore procenjena stres ehokardiografskim testom fizičkim opterećenjem može imati prognostički značaj kod pacijenata sa dilatacionom kardiomiopatijom?** Vladan Perić, Aleksandar Jovanović, Radojica Stolić, Dijana Đikić, Petar Otašević. Univerzitet u Prištini, Medicinski fakultet, Interna klinika, Kosovska Mitrovica i Institut za kardiovaskularne bolesti "Dedinje", Beograd
- 6. Right ventricle in hypertrophic cardiomyopathy (what simple echo can tell).** Olga Petrović, Bosiljka Vujišić-Tesić, Danijela Trifunović, Dijana Đikić, Milorad Tesić, Marija Boricic, Ivana Jovanovic, Ivana Rakocevic. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije
- 7. Hipertrofična kardiomiopatija i cerebrovaskularni insult – prikaz.** Slavica Ćirković, Đorđe Miljević, Željko Delić, OB Požarevac, OB Vrbas.
- 8. Dinamička opstrukcija izlaznog trakta leve komore tokom dobutaminskog stres echo testa.** Nataša Cvetinović, Milica Dekleva, Darko Boljević, Nikola Šekularac, Anton Tončev, Nikola Dodić, Aleksandra Aranđelović. Medicinski fakultet, Univerzitet u Beogradu, KBC Zvezdara

Ponedeljak, 2. mart

Monday, 2nd March

9. Kasna prezentacija Non kompaktacije leve komore-prikaz slučaja. Ana Ušćumlić, Nebojša Radovanović, Mina Radosavljević-Radovanović, Jasmina Kostić, Ratko Lasica, Nebojša Antonijević, Milena Srđić, Maja Prodanović, Ida Subotić, Milika Ašanin. Klinika za Kardiologiju KCS, Urgentni Centar, Medicinski fakultet Univerziteta u Beogradu

IMIDŽING U ATRIJALNOJ FIBRILACIJI/IMAGING IN ATRIAL FIBRILLATION

Tatjana Potpara (Beograd, RS)

10. Veličina leve pretkomore, primena oralne antikoagulantne terapije i učestalost trombo-embolijskih i hemoragijskih komplikacija kod bolesnika sa fibrilacijom pretkomora. Suzana Milutinović, Olivera Božić, Slaviša Božić, Sanja Stanković. Kardiološko odeljenje, Opšta bolnica, Leskovac

11. Ejekcionala frakcija, veličina leve komore i terapijski pristup kod bolesnika sa fibrilacijom pretkomora. Olivera Božić, Suzana Milutinović, Slavisa Božić, Sanja Stankovic. Opsta bolnica Leskovac

12. Ehokardiografska procena dijametara pretkomora kao prediktor uspešnosti elektrokonverzije perzistentne atrijalne fibrilacije. Miomir Randelić, Svetlana Apostolović, Lazar Todorović, Goran Koraćević, Zoran Perišić, Milan Pavlović, Svežana Svežana, Predrag Nikolić, Sonja Šalinger-Martinović. Klinika za kardiovaskularne bolesti KC Niš.

13. Correlation of plasma biomarkers of inflammation, oxidation, neurohormonal activation and endocardial dysfunction with left-atrial volume in patients with lone atrial fibrillation. Marija M. Polovina, Miodrag Č. Ostojić, Tatjana S. Potpara. Cardiology Clinic, Clinical Center of Serbia, Belgrade, Serbia, Medical Faculty, University of Belgrade, Serbia

14. Uticaj preoperativne veličine leve pretkomore na pojavu postoperativne nevalvularne atrijalne fibrilacije kod hirurški revaskularizovanih koronarnih bolesnika. Milica Vukićević, Svetozar Putnik. Klinika za kardiologiju, Klinika za kardiohirurgiju, Klinički centar Srbije

VALVULARNE MANE/VALVE DISEASES

Ljiljana Jovović (Beograd, RS), Biljana Obrenović-Kirćanski (Beograd, RS)

15. Bolesti srčanih zalistaka kod pacijenata na hroničnoj dijalizi. Daniela Lončar, Zumreta Kušljugić, Esad Brkić, Denis Mršić, Hazim Tulumović, Edita Sijerčić Amira Kušljugić, Alma Sijamija. JZU UKC Tuzla, Klinika za interne bolesti.

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- 16. Promene na mitralnom valvularnom aparatu kod obolelih od hronične inflamatorne bolesti creva.** Svetlana Petrović-Nagorni, Snežana Ćirić-Zdravković, Dragana Stanojević, Vesna Atanasković, Lazar Todorović. Klinika za kardiovaskularne bolesti, KC Niš
- 17. Aortic valve compliance during low-dose dobutamine testing in asymptomatic low-flow patients with severe aortic stenosis and normal ejection fraction.** Marko Banović, Bosiljka Vujisić-Tešić, Vojin Brković, Jelena Stepanović, Branko Beleslin, Ivana Nedeljković, Danijela Trifunović, Marija Ristić, Dejana Popović, Milan Nedeljković. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije
- 18. Echocardiographic characteristics of transcatheter aortic valves: Slovenian experience after 177 implantations.** Jana Ambrožič, Tjaša Furlan, Irena Lopatič, Matjaž Bunc. University Medical Center Ljubljana, Department of Cardiology
- 19. Disekcija aorte - između teorije i prakse.** Slavica Ćirković, Zoran Mirković, Mirjana Todorović, Željko Delić. OB Požarevac ; OB Vrbas
- 20. Ima li razlike između skleroze aortne valvule i aortne stenoze u kliničkim i ehokardiografskim parametrima?** Dušan Bastač. Internistička ordinacija Dr Bastač.
- 21. Nt proBNP and echocardiographic parameters in severe valvular aortic stenosis.** Emilija Antova, Ljubica Georgievska-Ismail, Elizabeta Srbinovska. University Clinic of Cardiology, Macedonia
- 22. Značaj mitralne regurgitacije na preoperativni ehokardiografski nalaz i klinički status bolesnika sa tesnom aortnom stenozom upućenih na hiruršku zamenu aortnog zalisca.** Jelena Janković, Ivana Rakočević, Danijela Trifunović, Vladimir Tutoš, Olga Petrović, Milan Petrović, Marija Boričić, Gordana Draganić, Mirjana Dragović, Bosiljka Vujisić-Tešić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije
- 23. Značaj mitralne regurgitacije na postoperativni ehokardiografski nalaz i klinički status bolesnika sa tesnom aortnom stenozom upućenih na hiruršku zamenu aortnog zalisca.** Ivana Rakočević, Jelena Janićijević, Danijela Trifunovic, Vladimir Tutoš, Olga Petrović, Milan Petrović, Marija Boričić-Kostić, Gordana Draganić, Mirjana Dragović, Bosljka Vujisić-Tešić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije
- 24. Neobična prezentacija disekcije aorte - prikaz slučaja.** Gordana Draganić, Bosiljka Vujisić-Tešić, Arsen Ristić, Marija Boričić-Kostić, Milorad Tešić, Ružica Maksimović*, Nemanja Menković*, Aleksandar Mikić**. Klinika za kardiologiju, Klinika za radiologiju*, Klinika za kardiohirurgiju**- KCS
- 25. Uloga radiologa kod transkateterske zamene aortne valvule.** Nemanja Menkovic, Milorad Tesic, Milan Nedeljkovic, Branko Beleslin, Ana Petkovic, Dragan Masulovic. Centar za radiologiju i magnetnu rezonancu, Medicinski fakultet,

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Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

26. Situs viscerum inversus, značaj dijagnoze kod interventnih i hirurških procedura. Alma Sijamija, Nermir Granov, Lejla Alađuz, Omer Perva, Daniela Lončar.

J.U. Bolnica Travnik, Centar za srce KCU Sarajevo, Klinika za interne bolesti JZU UKCTuzla.

27. Combined stress echo cardiopulmonary exercise testing in the evaluation of young athlete with bicuspid aortic valve disease: a link that has been missing. Ivana Nedeljković, Nenad Dikić, Tamara Antić, Marko Banović, Jelena Stepanović, Vojislav Giga, Ana Đorđević-Dikić, Bosiljka Vujisić-Tešić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

ENDOKARDITIS/ENDOCARDITIS

Bosiljka Vujisić-Tešić (Beograd, RS), Dimitra Kalimanovska-Oštrić (Beograd, RS)

28. Analiza povezanosti ulaznog mesta i mikrobiološkog nalaza kod pacijenata sa infektivnim endokarditisom. Maja Marković, Ana Radenković, Danijela Trifunović, Vladimir Tutoš, Milan Petrović, Marija Boričić-Kostić, Olgica Petrović, Miljko Ristić, Branislava Ivanović, Bosiljka Vujisić-Tešić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

29. Analiza predisponirajućih srčanih oboljenja i komorbiditeta kod bolesnika sa infektivnim endokarditisom. Ana Radenković, Maja Marković, Danijela Trifunović, Vladimir Tutoš, Milan Petrović, Marija Boričić-Kostić, Olgica Petrović, Mira Dragović, Biljana Obrenović-Kirćanski, Bosiljka Vujisić-Tešić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

30. Infektivni endokarditis na aortnoj valvuli sa razvojem postkardiotomnog sindroma: prikaz slučaja. Nataša Janković, Dragan V. Simić, Arsen D. Ristić, Aleksandar Mikić, Milan Petrović, Milan Marinković, Vladan Kovačević, Ivana Petrović, Dijana Đikić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

31. Od urinarne infekcije, preko tromboflebitisa i spondilodiscitisa do... Radica Pešić Beštić, Biljana Obrenović Kirćanski, Ljiljana Škorić Hinić, Predrag Ivanović, Bosiljka Vujisić Tešić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

MIOKARDNA MEHANIKA / MYOCARDIAL MECHANICS MYOCARDIAL STRAIN AND SPECKLE TRACKING

Milica Dekleva (Beograd, RS), Anđelka Ristić (Beograd, RS)

32. Myocardial deformation in acute myocarditis as assessed by 2-dimensional speckle tracking echocardiography. Andreja Černe Čerček, Pavel Berden. Cardiology Department, University Medical Centre, Ljubljana, Slovenia

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Monday, 2nd March

33. Left ventricular longitudinal function in different types of left ventricular hypertrophy: case studies. Irena Mitevska, Elizabeta Srbinovska, Valentina Andova, Emilija Antova. University Cardiology Clinic, Clinical Center, Skopje, Macedonia.

34. Association between left ventricular global longitudinal systolic strain and impaired microcirculation in patients with slow coronary flow phenomenon. Ivana Jovanovic, Milorad Tesic, Vojislav Giga, Olga Petrovic, Danijela Trifunovic, Ivana Paunovic, Jelena Stepanovic, Bosiljka Vujisic-Tesic, Branko Beleslin, Ana Đorđević-Dikic. Klinicki center Srbije

35. Analiza longitudinalne miokardne mehanike kod bolesnika sa hipertrofijom kardiomiopatijom. Danijela Trifunovic, Milorad Tesic, Olga Petrovic, Marko Banovic, Milan Petrovic, Marija Boricic-Kostic, Mirjana Dargovic, Ivana Nedeljkovic, Gordana Draganic, Bosiljka Vujisic-Tesic. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

36. Odnos miokardne mehanike i komorskih poremećaja ritma u ranom postinfarktnom periodu nakon primarne perkutane koronarne intervencije. Gordana Krljanac, Igor Mrdović, Danijela Trifunović, Lidija Savić, Milika Ašanin, Milena Srdić, Nataša Zlatić Ljubica Jovanović, Ratko Lasica, Mirjana Petrović. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

37. Korelacija parametara miokardne mehanike i konvencionalnih parametara globalne i regionalne funkcije leve komore (ejekcione frakcije i WMSI) kod bolesnika različite STEMI lokalizacije. Danijela Trifunović, Gordana Krljanac, Milika Ašanin, Igor Mrdović, Lidija Savić, Nataša Zlatić, Ljubica Jovanović, Zorana Vasiljević. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

38. Impact of chronic pressure and volume overload on left atrial shape and function. Angelina Stevanović, Zavod za zdravstvenu zaštitu "Železnice Srbije"

39. Odnos transmuralne miokardne mehanike i srčane insuficijencije u ranom postproceduralnom periodu kod STEMI bolesnika nakon primarne PCI. Gordana Krljanac Danijela Trifunović, Igor Mrdović Milika Ašanin, Lidija Savić Zorana Vasiljević, Nataša Zlatić Ljubica Jovanović. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

40. Miokardna ishemija bez promena na koronarnoj angiografiji – prikaz slučaja. Marko Milanov, Milica Dekleva, Dejan Kordić, Natasa Cvetinović, Darko Boljević, Sreten Budisavljević, Nikola Šekularac, Stana Stana, Anton Anton, Aleksandra Aranđelović. Kliničko odjeljenje za kardiovaskularne bolesti, Kliničko-bolnički Centar "Zvezdara"

Ponedeljak, 2. mart Monday, 2nd March

11:00-12:30

Imidžing kampus organizovan od strane kompanije Philips **Astrid Apor** (Budimpešta, HU)

Korist novih modaliteta imidžinga (*speckle tracking* ehokardiografija, 3D ehokardiografija) u svakodnevnoj kliničkoj praksi, organizovano od strane kompanije **Philips**

Utility of new imaging modalities (speckle tracking echocardiography, three-dimensional echocardiography) in the daily routine, organized by Philips

11:00-12:30 Mulitmodaliteti imidžinga/ Multimodality imaging

Sala 1

NOVE APLIKACIJE ZA STRES EHO (ESC/ASE PREPORUKE) *NEW STRESS ECHO APPLICATIONS(ESC/ASE RECOMMENDATIONS)*

Predsedništvo/ Chairperons: M. Ostojić (Beograd, RS), J. Stepanović (Beograd, RS), A. Đorđević-Dikić (Beograd, RS)

11:00 **Ishemija bolest srca kroz multimodalitete imidžinga 2015** (R. Sicari, Pisa, IT)

Ischemic heart disease by using multimodality imaging 2015

11:22 **Uloga stres eha u donošenju odluke o revaskularizaciji** (M. Ostojić, Beograd, RS)

The role of stress echo in decision making about the need for myocardial revascularization

11:44 **SEHO u asimptomatskim valvularnim manama: da li pomaže?** (P. Otašević, Beograd, RS)

SEHO in asymptomatic valvular heart disease: does it help?

12:06 **Novi pogled na kardiovaskularni imidžing: CT u fokusu** (F. Civaia, Monte Carlo, FR)

New insight in cardiovascular imaging: the CT point of view

Ponedeljak, 2. mart Monday, 2nd March

11:00-12:30 Multimodaliteti imidžinga/*Multimodality imaging*

Sala 2

IMIDŽING U ELEKTROFIZIOLOGIJI *IMAGING IN ELECTROPHYSIOLOGY*

Predsedništvo/Chairpersons: L. Angelkov (Beograd, RS), D. Kojić (Beograd, RS)

11:00 **Uporedni pregled imidžing tehnika u elektrofiziologiji** (D. Kojić,
Beograd, RS)

Comparison of imaging techniques in electrophysiology

11:30 **3D imidžing u elektrofiziologiji**(L. Angelkov, Beograd, RS)
3D imaging in electrophysiology

12:00 **CT i MRI u elektrofiziologiji**(M. Tomović, Beograd, RS)
CT and MRI in electrophysiology

12:30-13:00 Pauza / Lunch break

13:00-14:00 Simpozijum/Symposium

Sala 1+2

SIMPOZIJUM GENZYME *SYMPOSIUM GENZYME*

13:20 **Morbus Pompe- prikaz slučaja pedijatrijskog bolesnika** (S. Prijić,
Beograd, RS)

Pompe disease - case report of Pompe pediatric patient

13:20 **Morbus Fabry –klinička prezentacija i dijagnoza** (J. Stepanović,
Beograd, RS)

Fabry disease - clinical presentation and diagnosis

13:40 **Morbus Fabry – testiranje visoko rizičnih bolesnika i terapija**
(A. D. Ristić, Beograd, RS)

Fabry - high risk testing and therapy

Ponedeljak, 2. mart

Monday, 2nd March

14:00-15:30 DICE

Sala 1

DICE I: EHO U HITNIM STANJIMA

DICE I: ECHO IN EMERGENCY DEPARTMENT

Predsedništvo/Chairpersons: M. Radosavljević-Radovanović (Beograd, RS), D. Vulić (Banja Luka, RS), A. Ristić (Beograd, RS)

14:00 **Naglo nastala dispnea neuobičajenog porekla** (I. Mrdović, G. Krljanac, Beograd, RS)

Sudden dispnea of unusual origin

14:18 **Morska zvezda u koronarnoj jedinici - lepotica ili zver?** (M. Srđić, Beograd, RS)

Sea star in a coronary unit –beauty or the beast

14:36 **Preoperativna priprema mladog čoveka - neočekivani scenario**(R. Lasica, Beograd, RS)

Preoperative evaluation in the young man- unusual scenario

14:54 **Akutna bubrežna i hepatična insuficijencija kao prezentujući simptomi aortne disekcije tip II** (I. Jovanović, Beograd, RS)

Acute renal failure and hepatocellular damage as presenting symptoms of type II aortic dissection

15:12 **Atrialna fibrilacija: konverzija u hitnoj ambulanti bez eha?**
(D. Đorđević-Radojković Niš, RS)

Atrial fibrillation: conversion in emergency room without previous echocardiography?



Ponedeljak, 2. mart
Monday, 2nd March

14:00-15:30 *Multimodaliteti imidžinga/Multimodality imaging*

Sala2

VIJABILNOST MIOKARDA 2015

MYOCARDIAL VIABILITY 2015

Predsedništvo/Chairpersons: J. Stepanović (Beograd, RS), D. Šobić-Šaranović (Beograd, RS), V. Giga (Beograd, RS)

14:00 Procena vijabilnosti i njegov značaj pre ACBG ili PCI intervencije

(V. Giga, Beograd, RS)

Viability assessment and it's significance before ACBG or PCI intervention

14:22 Da li je vijabilnost mrtva nakon STICH studije? (J. Stepanovic,

Beograd, RS)

Is viability dead after STICH study?

14:44 Procena vijabilnosti miokarda nuklearnom kardiologijom

(D. Šobić-Šaranović, Beograd, RS)

Myocardial viability assessment by nuclear cardiology

15:06 Magnetna rezonanca u proceni vijabilnosti (R. Maksimović, Beograd, RS)

MRI in viability assessment

Ponedeljak, 2. mart
Monday, 2nd March

15:30-17:00 Multimodaliteti imidžinga / *Multimodality imaging*

Sala 1

**KARDIOPULMONALNI TEST U KOMBINACIJI SA IMIDŽING
TEHNIKAMA**

*CARDIOPULMONARY TESTING IN COMBINATION WITH IMAGING
TECHNIQUES*

Predsedništvo/Chairpersons: *Frank Lloyd Dini (Pisa IT), M. Guazzi (Milan, IT), I. Nedeljković (Beograd, RS)*

15:30 Poređenje stress echo testa sa kardiopulmonalnim testom u stratifikaciji bolesnika sa srčanom slabоšću (F. Lloyd Dini, Pisa, IT)

Comparison of stress echo test with cardiopulmonary exercise testing in risk stratification of patients with congestive heart failure

15:52 Kombinovanje testa opterećenja sa kardiopulmonalnim testom u kardiovaskularnim bolestima (M. Guazzi, Milan, IT)

Combination of exercise test with cardiopulmonary testing in cardiovascular diseases

16:14 Kardiopulmonalni test u kombinaciji sa različitim imidžing tehnikama u dijagnozi i evaluaciji ishemijske bolesti srca

(I. Nedeljković, Beograd, RS)

Cardiopulmonary test in combination with different imaging techniques for the diagnosis and evaluation of ischemic heart disease

16:36 Nov EACVI konsenzus eksperata o multimodalitetima kardiovaskularnog imidžinga kod sportista (N. Dikić, Beograd, RS)

New EACVI expert consensus statement on multimodality cardiovascular imaging approach to the athlete's heart

Ponedeljak, 2. mart Monday, 2nd March

15:30-17:00 Sesija za učenje/*Teaching session*

Sala 2

MIOKARDNA MEHANIKA: OD OSNOVE DO KLINIČKE APLIKACIJE (II DEO)

MYOCARDIAL MECHANICS: FROM BASIC PRINCIPLES TO CLINICAL APPLICATION(PART II)

Predsedavajući/ Chairpersons: *G. Sutherland* (London, UK), A. Đorđević-Dikić (Beograd, RS), Lj. Jovović (Beograd, RS)

15:30 Srčana oštećenja u sistemskim bolestima

Cardiac Involvement in Systemic Diseases(G. Sutherland, London, UK)

15:52 Da li nam je potrebna procena miokardne mehanike kod bolesnika sa kardiomiopatijom? (D. Trifunović, Beograd, RS)

Do we need myocardial mechanics assessment in patients with cardiomyopathy?

16:14 Da li nam je potrebna procena miokardne mehanike kod valvularnih bolesti? (O. Petrović, Beograd, RS)

Do we need myocardial mechanics assessment in valvular heart disease?

16:36 Kako se menja mehanika leve komore u procesu remodelovanja posle akutnog koronarnog sindroma? (M. Dekleva, Beograd, RS)

How does myocardial mechanics change during left ventricular remodeling after ACS?

Ponedeljak, 2. mart

Monday, 2nd March

15:30-17:00

Imidžing kampus organizovan od strane kompanije Philips

Imaging campus organized by company Philips

Astrid Apor (Budimpešta, HU)

Korist novih modaliteta imidžinga(*speckle tracking* ehokardiografija, 3D ehokardiografija) u svakodnevnoj kliničkoj praksi,

Utility of new imaging modalities (speckle tracking echocardiography, three-dimensional echocardiography) in the daily routin

17:00-17:30 Pauza / Coffee break

Ponedeljak, 2. mart
Monday, 2nd March

17:30-19:00 Preporučena sesija/*Recommended session*

Sala 1

**TRANSPLANTACIJA SRCA I MEHANIČKA CIRKULATORNA
POTPORA**

THE HEART TRANSPLANTATION AND CIRCULATORY SUPPORT

Predsedništvo/Chairpersons: M. Ristić (Beograd, RS), M. Kočica (Beograd, RS), E. Nestorović (Beograd, RS)

17:30 **Transplantacija srca i mehanička cirkulatorna potpora** (M. Ristić, Beograd, RS)

Heart transplantation and mechanical circulatory support

17:48 **Transplantacija srca i vestačko srce - hirurške tehnike** (S. Putnik, Beograd, RS)

Heart transplantation and artificial heart – surgical techniques

18:06 **Značaj ehokardiografije u selekciji bolesnika za transplantaciju srca i LVAD** (D. Trifunović, Beograd, RS)

The importance of echocardiography in patient selection for heart transplantation and LVAD

18:24 **Eho nakon transplantacije srca i LVAD implantacije** (E. Nestorović, Beograd, RS)

Echo after the HTx and LVAD implantation

18:42 **Ekstrakorporalna membranska oksigenacija -ECMO** (M. Kočica, Beograd, RS)

Extracorporeal membrane oxygenation - ECMO

Ponedeljak, 2. mart Monday, 2nd March

17:30-19:00 Multimodaliteti imidžinga/*Mutimodality imaging*

Sala 2

IMIDŽING KORONARNE CIRKULACIJE *CORONARY CIRCULATION IMAGING*

Predsedavajući/ Chairpersons: F. Rigo (Venice, IT), A. Đorđević-Dikić (Beograd, RS), Ž. Marković (Beograd, RS)

17:30 **Neinvazivna procena koronarne cirkulacije: neprekidni izazov**
(F. Rigo, Mestre-Venice, IT)

A noninvasive coronary circulation assessment: a continuing challenge

17:45 **CT srca: od kalcijumskog skoringa do FFR i perfuzije** (R. Vidaković, Beograd, RS)

Cardiac CT: from calcium scoring to FFR and perfusion

18:00 **Funkcionalna procena koronarne bolesti pomoću Dopplera i strejna**
(A. Đorđević-Dikić, Beograd, RS)

Functional assessment of CAD by Echo Doppler and strain

18:15 **Funkcionalna procena koronarne bolesti pomoću Dopplera i CT-a**
(Z. Mladenović, Beograd, RS)

Functional assessment of CAD by Doppler and CT

18:30 **MRI i koronarna bolest: savremen pogled** (L. Lacusio, Monte Carlo, FR)
MRI and coronary artery disease: state of the art

18:45 **Ishemijska bolest srca kod dece** (I. Stefanović, Beograd, RS)
Ischemic heart disease in children.

Poseta Belom Dvoru/ Visit to the White Palace

Utorak, 3. mart
Tuesday, March 3rd

08:30-10:00 Multimodaliteti imidžinga / *Multimodality imaging*

Sala 1

IMIDŽING U INTERVENTNOJ KARDIOLOGIJI *IMAGING IN INTERVENTIONAL CARDIOLOGY*

Predsedništvo/Chairpersons: Z. Perišić, (Niš, RS), M. Đukić (Beograd, RS), N. Jagić (Kragujevac, RS)

08:30 **Šta je i čemu služi OCT imidžing?** (Z. Perišić, Niš, RS)

Basic principles and application of OCT imaging

08:48 **Klinička primena FFR** (N. Jagić, Kragujevac, RS)

FFR: Clinical application

09:06 **Značaj intravaskluarnog ultrazvuka u vizualizaciji koronarne bolesti i donošenju kliničkih odluka** (D. Orlić, Beograd, RS)

The role of IVUS in coronary artery disease imaging and clinical decisions

09:24 **Perkutano zatvaranje ASD-a: kako izvesti proceduru?** (Lj. Mangovski, Beograd, RS)

Percutaneous ASD closure: how to perform a procedure?

09:42 **Primena stentova u urođenim srčanim manama** (M. Đukić, Beograd, RS)

Stent implantation in congenital heart disease

Utorak, 3. mart
Tuesday, March 3rd

8:30-10:00 Preporučena sesija /Recommended session

Sala 2

ASIMPTOMATSKA ATEROSKLOROZA: SAVREMENI POGLED 2015 **ASIMPTOMATIC ATHEROSCLEROSIS: A MODERN LOOK 2015**

Predsedništvo/Chairpersons: Ž. Marković (Beograd, RS), F. Ciavia (Monte Carlo, FR), V. Ivanović (Sremska Kamenica, RS)

8:30 CT pregled srca: Šta se može dijagnostikovati i korelacija sa drugim modalitetima (Ž. Marković, Beograd, RS)

CT of the heart: What can be diagnosed and correlation with other imaging modalities

8:48 Nisko dozna evaluacija KOB prospektivnim trigeringom i adaptivnim protokolom kod konvencionalnih 64 MDCT aparata
(P. Adnađević, A. Mladenović, Beograd, RS)

Low dose evaluation with the COD prospective triggering and adaptive protocol for conventional 64 MDCT scanner

9:06 Ca scoring indeks kao predictor asimptomatske ateroskleroze (M. Dikić, Beograd, RS)

Ca score index as a predictor of asymptomatic atherosclerosis

9:24 Da li se CT pregledom može raditi skrining KOB? (Ž. Marković, Beograd, RS)

Can CT angiography be used for COD screening?

9:42 Evaluacija koronarne ateroskleroze i hemodinamski nesignifikantnih okluzija CT koronarografijom – kvantifikacija i praćenje (A. Mladenović, Beograd, RS)

Evaluation of coronary atherosclerosis and hemodynamically non-significant occlusions by CT coronary angiography- quantification and follow-up

Utorak, 3. mart
Tuesday, March 3rd

10:00-11:00 Prostor za postere/Poster area

MODERIRANI POSTERI
MODERATED POSTERS

**IMIDŽING U ISHEMIJSKOJ BOLESTI SRCA/
IMAGING IN ISCHEMIC HEART DISEASE**

Ana Đorđević-Dikić (Beograd, RS), Vojislav Giga (Beograd, RS)

41. Prognostic value of transthoracic coronary flow reserve in medically treated patients with stenosis of intermediate severity (50-70%). Milorad.Tesic, Ana Đorđevic-Dikic, Vojislav Giga, Danijela Trifunovic, Ivana Jovanovic, Olga Petrovic, Ivana Nedeljkovic, Branko Beleslin, Jelena Stepanovic, Bosiljka Vujsic-Tesic.Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

42. Akutni infarkt miokarda kod bolesnika sa non-compaction kardiomiopatijom. Nataša Cvetinović, Milica Dekleva, Darko Boljević, Dejan Kordić, Marko Milanov, Stana Marković, Aleksandra Aranđelović. KBC Zvezdara

43. Tumor necrosis factor alpha – a predictor of left ventricular dysfunction after STE-ACS. Hristo Pejkov, Elizabeta Srbinovska-Kostovska, Sasko Kedev, Saso Panov, Irene Lang. University Clinic of Cardiology, Medical Faculty – Skopje, University Ss. Cyril and Methodius, Macedonia, 2. Laboratory of Molecular Biology and Genetics, Faculty of Natural Sciences – Skopje, University Ss. Cyril and Methodius, Macedonia, 3. Cardiology Clinic, AKH – Vienna, Medical University of Vienna, Austria

44. Dvodimenzionalna ehokardiografija u akutnom infarktu miokarda. Ivan II Nedeljkovic, Tomislav Nedeljkovic, Milan Cvjetkovic, Dusica Rakic, Danka Sutilovic, Dragana Gvozdanovic, Olivera Lukic. Dom Zdravlja "dr Cvjetkovic"

45. Relation between SYNTAX score and left ventricular remodeling after first ST elevation myocardial infarction. Darko Boljević, Milica Dekleva, Dejan Kordić, Nikola Dodić, Nataša Cvetinović, Stefan Živković, Marko Milanov, Aleksandra Aranđelović.University Medical Center "Zvezdara"

46. Comparison of left ventricular remodeling process after first myocardial infarction in patients with and without diabetes mellitus. Dane Cvijanović, Milica Dekleva, Darko Boljević, Nikola Dodić, Stana Marković, Anton Tončev, Aleksandra Aranđelovi.University Clinical Center - "Zvezdara"

47. Uticaj metaboličkog sindroma na oporavak koronarne mikrocirkulacije infarktnе regije nakon pPCI. Danijela Trifunovic, Milorad Tesic, Marko Banovic,

Utorak, 3. mart
Tuesday, March 3rd

Olga Petrovic, Marija Boricic-Kostic, Mirjana Dragovic, Ana Đorđevic-Dikic, Jelena Stepanovic, Bosiljka Vujisic-Tesic, Miodrag Ostojić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

48. Mid-term impact of manual thrombus aspiration on left ventricular remodeling: the echocardiographic substudy of the randomized Physiologic Assessment of Thrombus Aspiration in patients with ST-segment Elevation Myocardial Infarction (PATA STEMI) trial. Milorad Tesic, Branko Beleslin, Danijela Zamaklar, Dejan Milasinovic, Miodrag Zivkovic, Goran Stankovic, Jelena Stepanovic, Miodrag Ostojic, Dejan Orlic. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

49. Thrombus aspiration is similarly effective in STEMI patients with ischemia lasting less than 6 hours compared to those with longer ischemia: echocardiographic subanalysis from the PATA STEMI trial. Dejan Orlic, Milorad Tesic, Danijela Trifunovic, Bosiljka Vujisic-Tesic, Dejan Milasinovic, Miodrag Zivkovic, Milan Nedeljkovic, Branko Beleslin, Jelena Stepanovic, Miodrag Ostojic. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

50. Značaj stres ehokardiografskog testa u dijagnozi miokardne ishemije kod pacijenata sa bolom u grudima i promenama na bazičnom EKG-u. Ljubiša Nikolić M. Deljanin-Ilić, S.Ilić, B. Ilić, D. Petrović, M.Nikolić, A. Nikolić, B. Stoičkov, D. Simonović, D.Marinković. Institut za lečenje i rehabilitaciju "Niška Banja" Niš

51. Detection of coronary atherosclerosis and myocardial ischemia in asymptomatic patients with increased cardiovascular risk. Irena Mitevska, Jelka Davceva Pavlovska, Elizabeta Srbinovska, Frosina Arnaudova, Emilija Antova, Magdalena Otljanska, University Cardiology Clinic, Clinical Center, Skopje, Macedonia
52. Echocardiography, mental stress test and myocardial ischemia. Jelena Stepanovic, Olivera Vukovic, Ana Đorđevic-Dikic, Vojislav Giga, Ivana Nedeljkovic, Milica Pejovic-Milovancevic, Milan Nedeljkovic, Branko Beleslin, Miodrag C. Ostojic, Dusica Lecic-Tosevskl. Department of Cardiology, Clinical Center of Serbia. School of Medicine, University of Belgrade

53. Neinvazivna procena funkcionalne značajnosti miokardnog mosta: mesto dobutaminskog testa u proceni koronarne rezerve protoka. Srđan Aleksandric, Ana Đorđevic-Dikic, Gordana Teofilovski, Milan Dobric, Jelena Stepanovic, Miloje Tomasevic, Milan Petrovic, Dragan Simic, Milorad Tesic, Branko Beleslin. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

Utorak, 3. mart
Tuesday, March 3rd

**INTEGRISANA EVAULACIJA MULTIMODALITI IMIDŽING/
INTEGRATED EVALUATION / MULTIMODALITY IMAGING**

Ida Jovanović (Beograd, RS), Željko Marković (Beograd, RS)

54. Diagnostic Value Of Coronary Flow Reserve Determined By Transthoracic Doppler Echocardiography In Patients With Previously Performed Multi-Slice Computed Tomography. Zorica Mladenovic, Ana Đorđević Dikić, Predrag Đurić, Zoran Jović, Marijan Spasić, Dragan Tavčiovski. Klinika za Kardiologiju, VMA.

55. Značaj određivanja parametara arterijske krutosti kod bolesnika sa koronarnom bolešću. Marija Bjelobrk, Tatjana Miljković, Slobodan Dodić, Milorad Maletin. Institut za kardiovaskularne bolesti Vojvodine

56. Aorto-caval fistula - Case Report. Dijana Račeta Mašić, Srđa Ilić, Zorka Badnjar, Danica Raičević, Predrag Račeta. Clinical Center Of Montenegro

57. Importance of combined imaging methods in a patient with Turner syndrome and bicuspid aortic valve. Kristina Anđelković, Dimitra Kalimanovska-Oštrić, Vidna Karadžić, Danijela Vasić, Snežana Matić, Vesna Radojković-Radivojević, Milan Petrović, Nemanja Menković, Igor Končar. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinika za radiologiju, Klinički Centar Srbije

58. Analiza miokardne mehanike u ranom postproceduralnom periodu u predikciji finalne veličine infarkta kod STEMI bolesnika lečenih pPCI. Danijela Trifunović, Gordana Krljanac, Dragana Šobić-Šaranović, Milika Ašanin, Isidora Grozdić, Igor Mrdović, Lidiya Savić, Zorana Vasiljević. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

59. Akutni aortni sindrom - Izazov za MDCT. Nemanja Menković, Ana Petković, Marija Ilić, Jelena Markov, Vladimir Cvetić, Dragan Mašulović. Centar za radiologiju i magnetnu rezonancu, Klinički centar Srbije

60. MDCT prikaz slučaja posttraumatske arteriovenske fistule. Nemanja Menković, Jelena Markov, Marija Ilić, Ana Petković, Borivoje Lukić, Dragan Mašulović. Centar za radiologiju i magnetnu rezonancu, Klinički centar Srbije

61. Kada je koronarna CT angiografija alternativa, a kada komplementarna metoda invazivnoj koronarnoj angiografiji? Ana Petkovic, Nemanja Menkovic, Dragan Masulovic. Centar za radiologiju i magnetnu rezonancu, Klinički centar Srbije

62. MDCT imidžing primarnih malignih tumora perikada. Nemanja Menkovic, Maja Vuckovic, Aleksandar Ivanovic, Ana Petkovic, Marija Ilic, Jelena Markov, Dragan Masulovic. Centar za radiologiju i magnetnu rezonancu, Klinički centar Srbije

63. Primena savremenih Cloud tehnologija kod imidžinga u kardiologiji. Ljubiša Veljović. Bolnica – Čačak

Utorak, 3. mart
Tuesday, March 3rd

64. Prognostička vrednost miokardne vijabilnosti pomoću SPECT scintigrafije kod pacijenata sa preležanim infarktom miokarda i srednjim stepenom miokardne disfunkcije. Zorica Petrasinovic, Miodrag Ostojic, Branko Beleslin, Dragana Sobic- Saranovic, Ana Đorđevic- Dikic, Jelena Stepanovic, Ivana Nedeljkovic, Jovica Saponjski, Milan Dobric, Klinika za kardiologiju, Centar za nuklearnu medicinu, Klinički Centar Srbije, Beograd

SRČANE MASE I IZVORI EMBOLUSA/CARDIAC MASSES AND SOURCE OF EMBOLI
Milan Petrović (Beograd, RS), Aleksandra Nikolić (Beograd, RS)

65. Prikaz slučaja - veliki miksom pretkomore. Nikola Ivanović, Ljubica Fodora. Dom zdravlja Šid

66. Tromb u desnoj pretkomori u sklopu paraneoplastičnog sindroma – prikaz slučaja. Tamara Jakimov, Marija Zdravković, Mirjana Krotin, Saša Hinić, Nebojša Ninković, Aleksandra Đoković, Jelena Šarić, Siniša Dimković.KBC Bežanijska Kosa

67. Tumor of pulmonary valve which was discovered incidentally-case report. Vidna Karadzic, Kristina Andelkovic, Danijela Vasic, Snezana Stevic-Dzelebdzic, Branislava Ivanovic.Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

68. Smrtonosni ishod velikog flotirajućeg tromba u desnoj pretkomori - prikaz slučaja. Tamara Jakimov, Aleksandra Đoković, Saša Hinić, Jelena Šarić, Nebojša Ninković, Siniša Dimković, Mirjana Krotin, Marija Zdravković.KBC Bežanijska Kosa

69. Tumor desne komore - prikaz slučaja. Ivana Živković, Bosiljka Vujisić- Tešić, Mirjana Tomić, Marija Borićić, Ružica Maksimović, Nemanja Menković, Petar Seferović.Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije, Klinika za radiologiju KC Srbije

70. Tromboembolija pluća - slučajan nalaz, terapija ista? Tanja Popov, Aleksandra Vulin, Anastazija Stojić-Milosavljević, Jadranka Dejanović. Institut za kardiovaskularne bolesti Vojvodine

71. Pulmonary thromboembolism - can echocardiography help? Elizabeta Srbinovska Kostovska. University Clinic of Cardiology, Skopje, Macedonia

72. Tromb u levoj srčanoj komori u bolesnice sa infarktom miokarda i heparinom indukovanim trombocitopenijom. Nebojša Antonijević, Ana Karadžić, Jasminka Kostić, Nebojša Radovanović, S.Tadić, Dragan Matić, Lj.Jovanović, Slobodan Obradović, Vladan Vukčević, Jovan Peruničić. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije, Institut za transfuziju krvi, Beograd Klinika za urgentnu medicinu, Vojnomedicinska akademija, Beograd

Utorak, 3. mart
Tuesday, March 3rd

**IMIDŽING SRCA U SPECIFIČNIM POPULACIJAMA PACIJENATA/
HEART IMAGING IN SPECIFIC PATIENT POPULATIONS**

Milica Dekleva (Beograd, RS), Marija Zdravković (Beograd, RS)

73. Diastolic function in elite athletes- the impact of age and the type of sport. Milica Dekleva, Jelena Suzic Lazic, Milena Antic, Vojislav Parezanovic, Ivana Nedeljkovic, Biljana Đuric, Ivan Soldatovic, Slavica Suzic, Sanja Mazic. University Clinical Center "Zvezdara", Belgrade, Serbia

74. Uticaj dužine trajanja hipertenzije na ehokardiografske parametre i stepen dijastolne disfunkcije kod pacijenata sa očuvanom sistolnom funkcijom miokarda leve komore. Tatjana Miljković, Marija Bjelobrk, Biljana Radišić, Katica Pavlović. Institut za kardiovaskularne bolesti Vojvodine.

75. Uticaj dijabetes melitusa na dijastolnu funkciju lijeve komore. Marina Majkić, Ljiljana Kos, Vladimir Đurić. Univerzitska bolnica Klinički centar Banja Luka

76. Subclinical myocardial dysfunction in hypertensive patients with hyperuricemia. Angelina Stevanović, Milica Dekleva. Railway Health Care Institute

77. Značaj ehokardiografije u praćenju toka i trudnoće i planiranju porođaja kod bolesnika sa značajnom disfunkcijom leve komore. Lidija Jevđić, GAK, KCS

POSTERI MEDICINSKIH SESTARA/MEDICAL NURSES

Biljana Vukobrat-Vujanović (Beograd, RS), Marica Pivljanin (Beograd, RS)

78. Aktivnosti medicinske sestre kod transezofagusne ehokardiografije u otkrivanju pretkomorskih šantova. Gordana Isaković, Bosilka Vujisić-Tešić, Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

79. Značaj ergospirometrije kod bolesnika sa arterijskom hipertenzijom. Marija Ristić, Katarina Gačeša-Matejić, Marko Banović, Dejana Popović, Ivana Nedeljković. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

80. Značaj dobutamin stres ehokardiografije za procenu stepena aortne stenoze i ranu prognozu toka bolesti. Biljana Vukobrat Vujanović, Marko Banović. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

81. Dobutaminski test u otkrivanju živog miokarda kod bolesnika sa hroničnom ishemijskom disfunkcijom leve komore. Markovic Slavica Pivljanin Marica.Klinika za kardiologiju, Klinički Centar Srbije

82. Stresna ehokardiografija u dijagnostici ishemijske bolesti srca. Pivljanin Marica Đurović Jelena. Klinika za kardiologiju KCS

Utorak, 3. mart
Tuesday, March 3rd

83. Zivot posle infarkta. Đurović Jelena, Pivljanin Marica. Klinika za kardiologiju KCS

84. Značaj transezofagealne ehokardiografije u dijagnostikovanju disekantne aneurizme torakalne aorte. Sanela Birač, Isaković Gordana, Vujanović-Vukobrat Biljana, Bosiljka Vujisic-Tešić, Milan Petrović-Ljka, Petrović Milan. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

85. Risk factors control in female patients treated with primary PCI. Dragana Bacic, Jelena Kostic, Vojislav Giga, Jelena Stepanovic, Ivana Paunovic, Branko Beleslin, Ana Đorđevic-Dikic. Medicinski fakultet, Univerzitet u Beogradu, Klinika za kardiologiju, Klinički Centar Srbije

86. Stress echocardiography and heart rate recovery in patients with metabolic syndrome. Nikola Bosković, Milan Dobrić, Vojislav Giga, Zlatko, Mehmedbegović, Marija Polovina, Srdjan Alek sandric, Milorad Tešić, Ivana, Paunović, Marko Banović, Danijela Trifunović, Ivana Nedeljković, Ana Djodrdjević-Dikić, Branko Beleslin, Miodrag Ostojić, Jelena Stepanović. Klinika za kardiologiju, Klinički centar Srbije, Beograd

11:00-12:30

Imidžing kampus organizovan od strane kompanije General Electric

Imaging campus organized by company General Electric

Bogdan Popescu (Bukurešt, RO)

Savremene ehokardiografske tehnike u kliničkoj praksi –interaktivna radionica

Modern echo techniques in clinical practice - hands on workshop

Utorak, 3. mart
Tuesday, March 3rd

11:00-12:30 Preporučena sesija/*Recommended session*

Sala 1

ULOGA I MOGUĆNOSTI IMIDŽING METODA U SAVREMENOJ PEJSMEJKER TERAPIJI SRČANIH OBOLJENJA

*THE ROLL AND POSSIBILITIES OF IMAGING TECHNIQUES IN
CONTEMPORARY PACEMAKER THERAPY OF THE HEART DISEASES*

Predsedništvo/Chairpersons: G. Milašinović (Beograd, RS), S. Pavlović (Beograd, RS), A. Đorđević-Dikić (Beograd, RS)

11:00 Evolucija uloge i značaja ehokardiografije za CRT
(S. Djordjević, Beograd, RS)

Evolution of the role and importance of echocardiography for CRT

11:22 Nove mogućnosti ehokardiografije za selekciju bolesnika za CRT
(I. Stanković, Beograd, RS)

New possibilities of echocardiography in patient selection for CRT

**11:44 Mesto i značaj imidžing metoda za procenu kliničkog toka pacijenata
sa implantiranim pejsmejkera** (S. Raspopović, Beograd, RS)

The role of imaging techniques in clinical assessment of patients with implanted pacemakers

**12:06 Savremeno hemodinamsko programiranje pejsmejkera: uz pomoć
ehokardiografije ili savremenim elektronskim algoritmima?**
(G. Milašinović, Beograd, RS)

Contemporary hemodynamic pacemaker programming: with the use echocardiography or with contemporary electronic algorithms?

Utorak, 3. mart
Tuesday, March 3rd

11:00-12:30 Multimodaliteti imidžinga/*Multimodality imaging*

Sala 2

BOLESTI AORTE - MULTIMODALITETI IMIDŽINGA: KOJA OPCIJA JE NAJBOLJA?

AORTIC DISEASES - MULTIMODALITY IMAGING: WHAT IS THE BEST OPTION?

Predsedništvo/Chairpersons:B. Vujisić-Tešić(Beograd, RS)A. Lazarević (Banja Luka, RS),V. Ivanovic (Sremska Kamenica, RS)

11:00 **EHO u AAS** (M. Petrović, Beograd, RS)

The role of ECHO in AAS diagnosis

11:22 **CT u dijagnozi AAS** (V. Ivanović, Sremska Kamenica, RS)

CT in AAS diagnosis

11:44 **Patologija torakalne aorte - hronična aneurizma: Kada intervenisati?**

(A. Lazarevic, Banja Luka, RS)

Thoracic aorta pathology - chronic aneurysms: When the intervention should be performed?

12:06 **Nove vizuelizacione tehnike aneurizme adbominalne aorte u proceni rizika za rupturu – pogled u budućnost** (I. Končar, Beograd, RS)

Abdominal aortic aneurysm - new imaging techniques for rupture risk assessment - a look into the future

12:30-13:00 Pauza za ručak/ Lunch break

Utorak, 3. mart
Tuesday, March 3rd

13:00-14:30 Klinički seminar/*Clinical focus session*

Sala1

OPTIMIZACIJA SELEKCIJE BOLESNIKA ZA PLASTIKU MITRALNE VALVULE

OPTIMIZING PATIENT SELECTION FOR MITRAL VALVE REPAIR

Predsedništvo/Chairpersons: A.Apor (Budimpešta, HU), S. Putnik (Beograd, RS), Lj. Jovović (Beograd, RS)

13:00 Kako odabrati kandidata za rekonstrukciju mitralne valvule: osnovni ehokardiografski pristup (D. Trifunović, Beograd RS)

How to choose a patient for mitral valve repair: Basic echocardiographic approach

13:18 3D TEE i plastika mitralne valvule: od odabira bolesnika do hirurške sale (A. Apor, Budimpešta, Hun)

3D TEE and mitral valve repair: from patient selection to the operating room

13:36 Šta treba da zna ehokardiografista o hirurškim tehnikama za rekonstrukciju mitralne valvule? (S. Putnik, Beograd RS)

What an echo sonographer should know about surgical techniques for mitral valve repair?

13:54 Ehokardiografska procena uspešnosti i otkrivanje komplikacija posle rekonstrukcije mitralne valvule (Lj. Jovović, Beograd, RS)

Echocardiographic assessment of surgical results and complication detection after MV repair

14:12 Klipsevi za mitralnu valvulu: od selekcije pacijenata do implantacije (S. Hinić, Beograd, RS)

Mitral valve clips: from patient selection to implantation.

Utorak, 3. mart
Tuesday, March 3rd

13:00-14:30 Klinički seminar/ Clinically focused session

Sala 2

IZAZOVI U AORTNOJ STENOZI
CHALLENGES IN AORTIC STENOSIS

Predsedništvo/Chairpersons:B. Beleslin(Beograd, RS), B. Obrenović-Kirčanski (Beograd, RS), M. Nedeljkovic (Beograd, RS)

13:00 **Aortna stenoza niskog gradijenta** (B. Obrenović-Kirčanski, Beograd, RS)
Low gradient aortic stenosis

13:15 **Dobutaminski stres echo u aortnoj stenozi: odgovor na dileme**
(M. Banović, Beograd, RS)

Dobutamine stress echo in aortic stenosis

13:30 **Test fizičkim opterećenjem u aortnoj stenozi: da li je potreban?**
(I. Ivanov, Sremska Kamenica, RS)

13:45 **Kada i kome TAVI?** (B. Beleslin, Beograd, RS)
When and whom TAVI?

14:00 **Šta meriti u pripremi pacijenta za TAVI: echo i MSCT**
(M. Tešić, Beograd, RS)

What to measure for TAVI patient: echo and MSCT

14:15 **TAVI u Srbiji: inicijalna iskustva** (M. Nedeljkovic, Beograd, RS)
TAVI in Serbia: initial experience

14:30 – 14:45 Simpozijum/Symposium

Sala 1

SIMPOZIJUM BIOTEC INTERNATIONAL/ SYMPOSIUM BIOTEC INTERNATIONAL

14:30 **Cobra PzF – novi koronarni stent – prevučen inertnim patentiranim polimerom** (Tatjana Zdravković-Nešić, Beograd, RS)

Cobra PzF – new coronary stent – surface modified stent- coated with an inert patented polymer

14:45-15:00 Pauza / Coffee break

Utorak, 3. mart
Tuesday, March 3rd

15:00-16:30 Preporučena sesija/*Recommended session*

Sala 1

3D EHOKARDIOGRAFIJA *3D ECHOCARDIOGRAPHY*

Predsedništvo/Chairpersons: B. Popescu (Bukurešť, RO), M. Bervar (Ljubljana, SI), A. Apor (Budimpešta, HU)

15:00 Twist LK: principi i aplikacija (B. Popescu, Bukurešť, RO)

Left ventricular twist dynamics: principles and applications.

15:18 Evaluacija funkcije srca 3D ehokardiografijom: levo srce u fokusu(M. Bervar, Ljubljana, SL).

Evaluation of cardiac function with 3D echocardiography: focus on left heart chambers

15:36 Srčane valvule (A. Apor, Budimpešta, HU)

Heart valves

15:54 Proteze i ugradni aparati (P. Scisło, Varšava, PL)

Prostheses and devices

16:12 Mogućnosti 4D ehokardiografije u srčanoj insuficijenciji (A. Šljivić, Beograd, RS)

Possibilities of 4D echocardiography in heart failure



Utorak, 3. mart
Tuesday, March 3rd

15:00-16:30 *Multimodaliteti imidžinga/Multimodality imaging*

Sala 2

ZNAČAJ IMIDŽINGA U PREVENCICI KARDIOVASKULARNOG TROMBOEMBOLIZMA

THE IMPORTANCE OF IMAGING IN CARDIOVASCULAR TROMBOEMBOLISM PREVENTION

Predsedništvo/Chairpersons: V. Ivanović (Sremska Kamenica, RS), D. Vasić (Beograd, RS), T. Potpara (Beograd, RS)

15:00 Procena efekta karotidne endarterektomije na hemodinamiku i morfologiju pomoću kolor duplex ultrasonografije (D. Vasić, Beograd, RS)

Assessment of the effect of carotid endarterectomy on haemodynamics and morphology by color duplex ultrasonography

15:22 Preoperativni screening karotidne bolesti kod pacijenata kod kojih se planira by – pass hirurgija (A. Vulin, Sremska KameVica, RS)

Preoperative screening of carotid disease in patients who are planned for by-pass surgery

15:44 Uloga imidžinga u rutinskoj proceni pacijenata sa atrijalnom fibrilacijom (T. Potpara Beograd, RS)

The role of imaging in the routine assessment of patients with atrial fibrillation

16:06 Ehokardiografija u prevenciji tromboembolizma kod bolesnika sa sistolnom disfunkcijom leve komore (D. Bastać, Zaječar, RS)

Echocardiography in thromboembolism prevention in patients with left ventricular systolic dysfunction

Utorak, 3. mart
Tuesday, March 3rd

16:30-17:30 DICE

Sala 1

DICE II: MISTERIJE KARDIOVASKULARNOG IMIDŽINGA

DICE II: MYSTERIES OF CARDIOVASCULAR IMAGING

Predsedništvo/Chairpersons: T. Popov (Sremska Kamenica, RS), M. Dekleva (Beograd, RS), D. Kaimanovska-Oštrić (Beograd, RS)

16:30 Ispitivanje i lečenje odrasle bolesnice sa aorto-pulmonalnim prozorom(K. Anđelković, Beograd RS)

Diagnostic process and treatment of an adult woman with aorto-pulmonary shunt

16:42 Šta sve može ličiti na tromb u vrhu leve komore? (S.Kačar, Beograd, RS)

Differential diagnosis of left ventricular apical thrombus

16:54 Od uroinfekcije, preko tromboflebitisa i discitisa do (R. Pesić, Beograd, RS)

From urinary infection, thrombophlebitis and discitis to....

17:06 Bol u gudima kod trudnice (S. Tadić, Sremska Kamenica, RS)

Chest pain in pregnancy

17:18 Ples sa đavolom (T. Popov, Sremska Kamenica, RS)

Dance with the devil

Utorak, 3. mart
Tuesday, March 3rd

16:30-17:30 Multimodaliteti imidžinga/*Multimodality imaging*

Sala 2

MIOKARDNA FIBROZA KROZ MULTIMODALITETE IMIDŽINGA *MULTIMODALITY IMAGING OF MYOCARDIAL FIBROSIS*

Predsedništvo/Chairpersons: I. Nedeljković (Beograd,RS), R. Maksimović (Beograd,RS), D. Šobić Šaranović (Beograd,RS), V. Giga (Beograd,RS)

16:30 **Miokardna fibroza: biohemijski i funkcionalni markeri**(J. Stepanović, Beograd, RS)

Myocardial fibrosis: biochemical and functional markers

16:50 **PET/SPECT: izazovi u nuklearnoj kardiologiji** (D. Šobić-Šaranović, Beograd, RS)

PET/SPECT: Challenges of nuclear cardiology

17:10 **Miokardna fibroza vidjena očima magnetne rezonance** (B. Banko, Beograd, RS)

Myocardial fibrosis seen through the eyes of MRI

16:30-18:00

Imidžing kampus organizovan od strane kompanije General Electric

Imaging campus organized by company General Electric

Bogdan Popescu (Bukurešt, RO)

Savremene ehokardiografske tehnike u kliničkoj praksi –interaktivna radionica

Modern echo techniques in clinical practice - hands on workshop

Utorak, 3. mart
Tuesday, March 3rd

17:30-18:30 Preporučena sesija/*Recommended session*

Sala 1

ONKOLOŠKA TERAPIJA I KARDIOTOKSIČNI LEKOVI *CANCER TREATMENT AND CARDIOTOXICITY: TOO MUCH OR TOO LITTLE?*

Predsedništvo/Chairpersons: B. Ivanović (Beograd, RS), A. Stojšić (Sremska, Kamenica, RS)

17:30 **Onkološka terapija i njene kardiološke posledice: o kolikom problemu je reč?** (S. Ćirić, Niš, RS)

Cancer treatment and its cardiac effects: what is the scope of the problem?

17:50 **Vizuelizacija kardioloških posledica radioterapije** (O. Petrović, Beograd, RS)

Radiotherapy -Imaging of its cardiological consequences

18:10 **Preporuke za praćenje kardiotoksičnosti posle hemoterapije**
(B. Ivanović, Beograd RS)

Recommendations for monitoring cardiotoxicity after chemotherapy

Utorak, 3. mart
Tuesday, March 3rd

17:30-18:30 Preporučena sesija/*Recommended session*

Sala 2

KARDIOVASKULARNI IMIDŽING KOD SPORTISTA: ISTINE I ZABLUGE

*CARDIOVASCULAR IMAGING IN ATHLETES:
CONCEPTIONS AND MISCONCEPTIONS*

Predsedništvo/Chairpersons: A. Aranđelović (Beograd,RS), V. Giga (Beograd,RS), M. Petrović(Beograd,RS)

17:30 Rutinski Imaging kod sportista: da ili ne? (V. Giga, Beograd, RS)
Routine imaging in athletes: yes or no?

17:50 Normalno vs. atletsko srce: novi ehokardiografski indeksi
(A. Aranđelović, Beograd, RS)

Normal vs. athlete's heart: new echocardiographic indexes

18:10 Prevencija naprasne srčane smrti kod sportista: mogućnosti i ograničenja imidžinga(M. Zdravković, Beograd, RS)
Sudden cardiac death prevention in athletes: The possibilities and limitations of imaging methods

19:00-19:30 ZATVARANJE KONGRESA/Closing ceremony
Sala 1 + Sala 2

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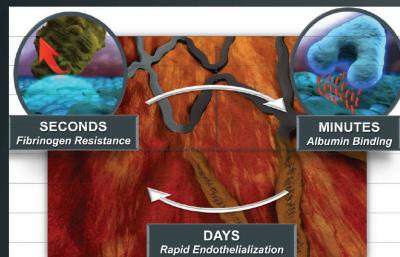
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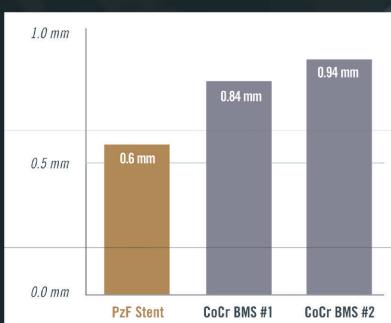
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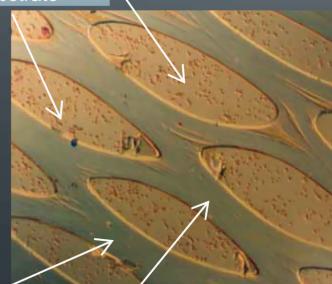
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