



CroEcho2013

7. hrvatski ehokardiografski skup
s međunarodnim sudjelovanjem

7th Croatian Echocardiography Meeting
with International Participation



KONAČNI PROGRAM FINAL PROGRAMME

23. do 25. svibnja 2013. / May 23rd - 25th, 2013
Hotel Valamar Lacroma,
Dubrovnik, Hrvatska / Croatia

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POZDRAVNO PISMO / WELCOME ADDRESS



Poštovane kolegice i poštovani kolege,

Posebno nam je zadovoljstvo pozdraviti Vas na 7. ehokardiografskom skupu, CroEcho 2013 u Dubrovniku. CroEcho je edukativni, stručni i znanstveni ehokardiografski skup s međunarodnim sudjelovanjem. To je i sedmi dvogodišnji sastanak u organizaciji Radne skupine za ehokardiografiju i slikovne metode u kardiologiji Hrvatskoga kardiološkog društva.

Prethodni CroEcho, održan 2011 g. u Opatiji, okupio je ehokardiografsku javnost Hrvatske i okolnih zemalja, uz veliki broj domaćih i inozemnih sudionika, predavača te izlagača, čime nastavlja biti najveći ehokardiografski skup u regiji.

Proteklo dvogodišnje razdoblje donijelo je nove spoznaje i stručni napredak u kardiologiji kojeg neminovno prati, a u znatnoj mjeri i potiče, ehokardiografija.

CroEcho 2013 je, stoga, iznimna prigoda za novo okupljanje.

Prigoda je i da se osvrnemo na nedavne promjene u Europskom ehokardiografskom udruženju koje je preraslo u udruženje za sve slikovne metode u kardiologiji: The European Association of Cardiovascular Imaging (EACVI). Ova je promjena odraz rastuće potrebe za racionalnim kliničkim dijagnosticiranjem čiji je oslonac ciljano i sveobuhvatno korištenje slikovnih pretraga u kardiologiji.

Ehokardiografija je temeljna i klinički usmjerena slikovna metoda, a kardiolozi koji je izvode kliničari upoznati s kliničkim problemom, stoga možemo očekivati da će kardiolozi koji se bave ehokardiografijom pokazati najviše interesa za cjelovit i objedinjen slikovni pristup u kardiologiji.

Shodno tome, posebna novost na CroEcho-u je cjeloviti dijagnostički slikovni pristup ishemijskoj bolesti srca koji objedinjuje sve slikovne metode u kardiologiji (ECHO, CT, CMR, SPECT) kroz prizmu okruglog stola.

Najveći dio programa posvećen je temeljnim i naprednim edukativnim sadržajima iz ehokardiografije, znanstvenim priopćenjima te interaktivnim slikovnim vježbaonicama. Težište edukativnog sadržaja

zauzima Tečaj osnova ehokardiografije namijenjen kardiolozima i specijalizantima kardiologije te svima onima koji žele svladati teoretske osnove ehokardiografije. Kvalitetu tečaja potvrdio je Edukacijski odbor EACVI-ja.

U skladu s ciljem poticanja višeg standarda profesionalne izvrsnosti u kardiologa specijaliziranih u području ehokardiografije i drugih slikovnih metoda, promicanje iste u kliničkoj dijagnostici, istraživanju i tehnološkom razvoju, znanstveni dio programa nudi vam mogućnost da prikazete znanstvene dosege vaših ehokardiografskih i drugih slikovnih laboratorija.

Prigoda za susret svih članova je godišnji sastanak Radne skupine za ehokardiografiju i slikovne metode u kardiologiji Hrvatskoga kardiološkog društva.

Predsjednici skupa



Jadranka Šeparović Hanževački



Viktor Peršić

A handwritten signature in black ink, appearing to be 'JŠH'.

A handwritten signature in black ink, appearing to be 'VP'.

Dear Colleagues,

It is our pleasure to welcome you in Dubrovnik on the 7th Croatian Echocardiography Meeting with International Participation. CroEcho is an educational, professional and scientific echocardiographic meeting organised by the Working Group on Echocardiography and Cardiac Imaging Modalities of the Croatian Cardiac Society.

The preceding CroEcho, held in 2011 in Opatija, gathered the echocardiographic professionals of Croatia and surrounding countries, with a great number of local and foreign participants, lecturers and exhibitors, thereby continuing its position as the largest echocardiographic meeting in the region. The preceding two-year period brought about new understandings and technical progress in cardiology, which is inevitably followed and, to a considerable extent, supported by echocardiography.

Therefore, CroEcho 2013 presents an exceptional opportunity for a new gathering.

It is an opportunity to look back upon the recent changes in the European Echocardiographic Association, which grew into an association for all imaging modalities in cardiology: The European Association of Cardiovascular Imaging (EACVI). This change reflects the growing need for rational clinical diagnostics founded upon targeted and all-encompassing use of imaging examinations in cardiology.

Echocardiography is a fundamental and clinically oriented imaging modality and cardiologists who perform it are clinicians familiar with the clinical problem, so we can expect that cardiologists who perform echocardiography will show most interest in an integrated and integral imaging approach in cardiology.

Consequently, a special novelty on CroEcho is an integrated diagnostic imaging approach to a ischaemic heart disease that includes all imaging modalities in cardiology (ECHO, CT, CMR, SPECT) through a prism of a round table.

The largest part of the programme will be dedicated to the basic and advanced educational content in echocardiography, scientific announcements and interactive imaging workshops. The emphasis in the educational programme has been put on the basic echocardiography

course intended for cardiologists, cardiology residents, internal medicine specialists, pediatricians, anesthesiologists, and all those who want to learn the basics of echocardiography. The course is certified by EACVI Education Committee.

In accordance with our goal to encourage higher standards of professional excellence for cardiologists specialized in the field of echocardiography and other imaging modalities and promoting them in clinical diagnostics, research and technological advancement, the scientific part of the programme offers you the possibility to show the scientific achievements of your echocardiographic and other imaging laboratories.

This event represents an opportunity for gathering of all members of the Working Group on Echocardiography and Cardiac Imaging Modalities of the Croatian Cardiac Society at our annual assembly.

Sincerely,

Meeting Directors



Jadranka Šeparović Hanževački



Viktor Peršić

A handwritten signature in black ink, appearing to read 'JŠH'.

A handwritten signature in black ink, appearing to read 'V Peršić'.

ORGANIZATORI / ORGANIZERS

Radna skupina za ehokardiografiju i slikovne metode u kardiologiji Hrvatskoga kardiološkog društva / Working Group on Echocardiography and Cardiac Imaging Modalities of the Croatian Cardiac Society



Radna skupina za ehokardiografiju i slikovne metode u kardiologiji



Hrvatsko kardiološko društvo

ORGANIZACIJSKI ODBOR / ORGANIZING COMMITTEE

Predsjednici skupa / Meeting Directors:

Jadranka Šeparović Hanževački, Viktor Peršić

Tajnik organizacijskog odbora / Secretary of the Organizing Committee: Daniel Lovrić

Organizacijski odbor / Organizing Committee:

Željko Baričević, Marko Boban, Nikola Bulj, Maja Čikeš, Irena Ivanac Vranešić, Mario Ivanuša, Jana Ljubas Maček, Vesna Pehar-Pejčinović, Vlatka Rešković Lukšić

Područni organizacijski odbor / Local Organizing Committee:

Antica Romić, Antun Car

**MEĐUNARODNI ZNANSTVENI ODBOR I POZVANI PREDAVAČI /
SCIENTIFIC COMMITTEE AND INVITED SPEAKERS**

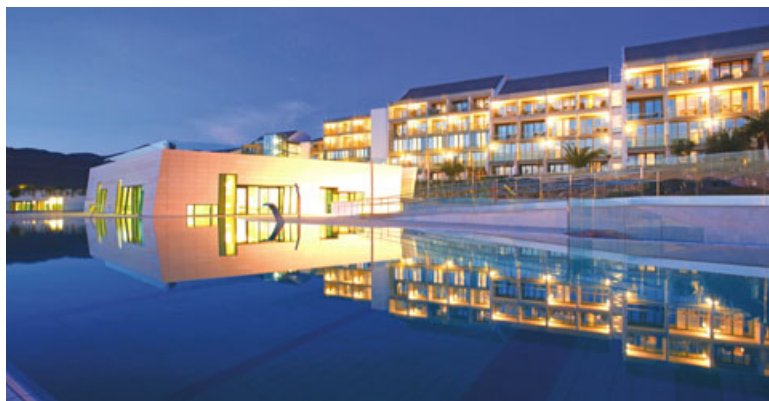
Jana Ambrožič (SLO)
Luigi Badano (I)
Željko Baričević (HR)
Gani Bajraktari (RKS)
Ivo Božić (HR)
Vojtjeh Brida (HR)
Nikola Bulj (HR)
Nataša Černič Šuligoj (SLO)
Maja Čikeš (HR)
Diana Delić-Brkljačić (HR)
Genevieve Derumeaux (F)
Nikša Drinković (HR)
Piet Claus (B)
Jan D'hooge (B)
Frank Flachskampf (S)
Gilbert Habib (F)
Irena Ivanac Vranešić (HR)
Lieven Herbots (B)
Mario Ivanuša (HR)
Mladen Jukić (HR)
Ksenija Kapov-Sviličić (HR)
Mislav Klobučić (HR)
Miroslaw Kowalski (PL)
Zumreta Kušljugić (BiH)
Patrizio Lancellotti (B)
Daniel Lovrić (F)

Davor Miličić (HR)
Jure Mirat (HR)
Aleksandar Nešković (SRB)
Vjeran Nikolić-Heitzler (HR)
Milan Nikšić (HR)
Vesna Pehar-Pejčinović (HR)
Viktor Peršić (HR)
Danijel Planinc (HR)
Janez Poklukar (SLO)
Frank Rademakers (B)
Vlatka Rešković Lukšić (HR)
Alen Ružić (HR)
Kristina Selthofer-Relatić (HR)
Jadranka Šeparović Hanževački (HR)
Elnur Smajić (BiH)
Elizabeta Srbinovska (MK)
Ivan Stanković (SRB)
Krešimir Šutalo (HR)
George R. Sutherland (GB)
Janez Tasić (SLO)
Aleksandar Trbović (HR)
Josip Vincelj (HR)
Jens Uwe Voigt (B)
Luka Zaputović (HR)
Davorka Žagar (HR)

MJESTO ODRŽAVANJA / VENUE

Skup se održava od četvrtka, 23. svibnja do subote 25. svibnja 2013., u hotelu Valamar Lacroma Dubrovnik.

/ The CroEcho 2013 Meeting takes place from Thursday, May 23rd to Saturday, May 25th, 2013, at the Valamar Lacroma Dubrovnik Hotel.



REGISTRACIJA / REGISTRATION

Mjesto za registraciju se nalazi u Business centru, Razina 1.

/ The registration area is located in in the Business Center, Level 1.

Radno vrijeme / Working Hours

Četvrtak / Thursday, May 23 rd , 2013	10:00 – 18:00
Petak / Friday, May 24 th , 2013	8:00 – 18:00
Subota / Saturday, May 25 th , 2013	8:00 – 17:00

PROSTORIJA ZA PREDAJU PREZENTACIJA / SLIDE PREVIEW ROOM

Prostorija za predaju prezentacija nalazi se u Business centru na Razini 1. / The Slide Preview Room is located in the Business Center on Level 1.

Radno vrijeme / Working Hours

Petak / Friday, May 24th, 2013 8:00 – 18:00

Subota / Saturday, May 25th, 2013 8:00 – 13:30

Molimo da svi predavači predaju svoje prezentacije dan prije njihovog predavanja, a najkasnije dva sata prije početka sekcije. Projekcija prezentacije s vlastitog prijenosnog računala nije dozvoljena.

/ All Speakers are kindly asked to hand in their presentation the day before their lecture or two hours prior to the commencement of the Session, at the latest. Please note that you may not use your laptop for your presentation in the lecture hall.

CroEcho 2013, u organizaciji Radne skupine za ehokardiografiju i slikovne metode u kardiologiji Hrvatskoga kardiološkoga društva nastavlja tradiciju dvogodišnjih ehokardiografskih skupova, dodajući nova znanja, vještine i iskustva.

Tijekom tri dana skupa odvijaju se paralelni sadržaji u plenarnim sekcijama, tečaju i radionicama.

U plenarnim sekcijama ehokardiografske teme su posvećene novim oblicima liječenja u bolestima miokarda, integriranom dijagnostičkom pristupu u ishemijskoj bolesti srca i izazovima u valvularnim greškama. Izabrana znanstvena izlaganja i zanimljivi klinički slučajevi na putu do dijagnoze sastavni su dio programa. Posebnost ove godine su interaktivne vježbovnice i radionice u kojima učimo uz vodstvo stručnjaka.

Cilj znanstvenog programa i radionica je daljnja naobrazba i usavršavanje ehokardiografske kompetencije i vještina kardiologa. Tečaj je usmjeren na stjecanje temeljnog ehokardiografskog znanja onih kolega koji tek kroče u ovo zahtjevno područje.

/ CroEcho 2013, organized by the Working Group on Echocardiography and Cardiac Imaging Modalities of the Croatian Cardiac Society, continues its tradition of bi-annual echocardiographic meetings, facilitating new knowledge, skills and experience.

The meeting lasts for three days and offers parallel content through plenary sections, course and workshops.

In plenary sections, echocardiographic topics are focused on new methods in treatment of myocardial diseases, integrated diagnostic approach to ischemic heart disease and challenges in valvular diseases. Selected scientific lectures and interesting clinical cases on the road to establishing diagnosis are an integral part of the program. This year we are introducing a novelty – interactive workshops and imaging campus where you can learn guided by experts.

The goal of the scientific program and workshops is to provide additional education and boost echocardiographic competences and skills of cardiologists. The course is focused on giving a basic echocardiographic knowledge to those colleagues who are just stepping into this demanding field.

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ZNANSTVENI PROGRAM / SCIENTIFIC PROGRAMME



ZNANSTVENI PROGRAM / SCIENTIFIC PROGRAMME
ČETVRTAK, 23. SVIBNJA 2013 / THURSDAY, MAY 23rd 2013

Elafiti Hall 3

14:00-16:00 IZABRANI SAŽETCI I / SELECTED ABSTRACTS I

Predsjedatelji / Chairpersons:

D. Duplančić, D. Planinc, D. Lovrić

A. Car: Athlete's heart in dubrovnik's professional water polo players

Ž. Baričević: Reduced radial strain in transplanted hearts

Z. Jurišić: Early detection of cardiac involvement in systemic sclerosis assessed by tissue Doppler echocardiography

A. Trbović: Six years of percutaneous occlusions of ASD and PFO - Where are we today?

J. Ambrožič: Slovenian experience in annular sizing in TAVI and its impact on clinical outcome

J. Ljubas Maček: Severe atrial dilatation in combination with severe mitral regurgitation predicts negative response to CRT

K. Selthofer-Relatić: Transthoracic echocardiography: adiposity, epicardial adipose tissue and right heart

D. Lovrić: Exercise pulmonary hypertension is associated with increased pulmonary artery dimension in systemic sclerosis

A. Ružić: Papillary fibroelastomas: our case series and brief literature review

16:00-16:30 Stanka uz kavu / Coffee break

16:30-17:30 **MINI SIMPOZIJ / MINI-SYMPOSIUM**

Organised by Servier

Ehokardiografijom do prognoze u zatajivanju srca - ivabradin u novim smjernicama / Using echocardiography to determine prognosis in heart failure - ivabradin in the new guidelines

18:15-20:00 **SVĚČANOST OTVARANJA / OPENING CEREMONY**

Počasno predavanje / Honorary lecture

G. Sutherland: The Pathophysiology of Acute LV Pressure Overload and its Potential Link to Sudden Death

20:00 **DOMJENAK DOBRODOŠLICE / WELCOME COCKTAIL**

Elafiti Hall 3

08:30-10:00 **INTEGRATIVNI PRISTUP RESINKRONIZACIJSKOJ TERAPIJI SRCA / INTEGRATIVE APPROACH TO CARDIAC RESYNCHRONIZATION THERAPY**

Predsjedatelji / Chairpersons:

G. Sutherland, D. Delić Brkljačić

EP corner: R. Bernat

I. Stanković: Vizualna procjena disinkronije / Visual dysynchrony assessment

L. Herbots: Integrativno praćenje bolesnika: provodljivost, kardiomehanika ili klinika? / Integrative follow-up: electrical, mechanical or clinical?

J. Šeparović Hanževački: Optimizacija uređaja - postoji li elektromehanička sinkronija poslije CRT-a? / Device optimization - is there electromechanical synchrony after CRT?

G. Sutherland: Kritički osvrt - komu je CRT od koristi? / Critical overview - who will benefit?

10:00-10:30 **Stanka uz kavu / Coffee break**

Pregled postera / Posters session

10:30-12:00 **BOLESTI SRČANOG MIŠIĆA: IZNIMNOSTI I IZAZOVI / CARDIOMYOPATHIES: PEARLS AND CHALLENGES**

Predsjedatelji / Chairpersons:

G. Habib / F. Flachskampf

F. Flachskampf: Funkcija lijeve klijetke pod kemoterapijom / Left ventricular function under chemotherapy

D. Planinc: Restriksijska kardiomiopatija / Restrictive cardiomyopathy

D. Lovrić: Ima li mjesta za nove ehokardiografske metode u u terminalnom zatajavanju i transplantaciji srca / Is there a place for novel echocardiography techniques in terminal heart failure and transplantation

G. Habib: Spužvasta kardiomiopatija / Left ventricular non-compaction

D. Miličić: Ehokardiografijom vođena mehanička potpora srcu / Echo-guided ventricular assist device therapy

12:00-12:30 **RADNI RUČAK / LUNCH SYMPOSIUM**

Organised by Genzyme

Nasljedna infiltracijska kardiomiopatija / Infiltrative genetic cardiomyopathy

A. Linhart: Uloga ehokardiografije u Fabrijevoj bolesti / The role of echocardiography in Fabri disease

12:30-13:00 **RADNI RUČAK / LUNCH SYMPOSIUM**

V. Peršić: Kardiovaskularno oslikavanje u fibrilaciji atrija u eri novih oralnih antikoagulantnih lijekova / Cardiovascular Imaging in Atrial Fibrillation in the era of new oral anticoagulant drugs

13:00-14:00 Stanka za ručak / Lunch break

14:30-16:00 **NAJBOLJE IZ REGIJE / BEST FROM THE REGION**

Predsjedatelji / Chairpersons:

L. Badano / Z. Kušljugić

A. Nešković: Smjernice za ehokardiografiju u hitnim stanjima / Recommendations for emergency echocardiography

E. Smajić: Dijastolička funkcija lijeve klijetke tijekom akutnog infarkta miokarda - prednosti i ograničenja / Diastolic function of the left ventricle during acute myocardial infarction - advantages and limitations

N. Černič Šuligoj: Uloga ehokardiografije u perkutanom zatvaranju aurikule lijeve pretkljetke / The role of echocardiography in percutaneous left atrial appendage occlusion

G. Bajraktari: Ehokardiografski predskazatelji u aortnoj stenozu / Echo predictors in aortic stenosis

E. Srbinovska: Uloga ehokardiografije u dijagnostici i prognozi plućne hipertenzije / Role of echocardiography in diagnosis and prognosis of pulmonary hypertension

16:00-16:30

Stanka uz kavu / Coffee break

Pregled postera / Posters session

16:30-18:00

NAPREDNE METODE U OSLIKAVANJU BOLESTI SRČANIH ZALISTAKA / ADVANCED IMAGING TECHNIQUES IN VALVULAR DISEASES

Predsjedatelji / Chairpersons:

G. Derumeaux, N. Drinković

G. Derumeaux: Ehokardiografska procjena u postupku postavljanja mitralne kopče / Echocardiographic evaluation for mitral clip procedure

L. Badano: Trodimenzijska ehokardiografija i trikuspidni zalistak / 3D echocardiography and tricuspid valve

J. Šeparović Hanževački: Višestruke bolesti zalistaka / Multiple valve diseases

P. Lancellotti: Zamke u procjeni težine aortne stenozu / Pitfalls in aortic stenosis assessment

20:00

ZAJEDNIČKA VEČERA / CONGRESS DINNER

ZNANSTVENI PROGRAM / SCIENTIFIC PROGRAMME
SUBOTA, 25. SVIBNJA 2013 / SATURDAY, MAY 25th 2013

Elafiti Hall 3

08:30-10:00 IZABRANI SAŽETCI II / SELECTED ABSTRACTS II

Predsjedatelji / Chairpersons:

J. Vincelj, J. Šeparović Hanževački, A. Ružić

B. Ilić: Systolic and diastolic left ventricular function in patients on dialysis

J. Breslieva: Echocardiography in diagnosis of children's heart murmurs

A. Batalli-Kepuska: Left ventricular thickness may be affected by higher arterial blood pressure and body-mass index in asymptomatic adolescents

N. Bulj: Bedside echocardiography in right ventricular dysfunction assessment in hemodynamically stable patients with pulmonary embolism

A. Anić: Intracardiac echocardiography validation in improving safety of transseptal puncture

Y. Vukušić Janjić: The most important echocardiographic characteristics in hypertensive outpatients

Y. Vukušić Janjić: The most important echocardiographic characteristics in hypertensive outpatients

A. Jović: Intracardiac echocardiography use during electrophysiology procedures to guide catheter ablations-single center experience from General Hospital Zadar

I. D. Gabrić: Echocardiography parameters before therapy cannot predict cardiotoxicity caused by Trastuzumab

10:00-10:30 Stanka uz kavu / Coffee break
Pregled postera / Posters session

10:30-12:00 **OKRUGLI STOL: PROCJENA ISHEMIJSKE
BOLESTI SRCA / ROUND TABLE: EVALUATION OF
ISCHAEMIC HEART DISEASE**

Predsjedatelji / Chairpersons:

F. Rademakers, V. Peršić, M. Jukić, V. Nikolić
Heitzler, M. Čikeš

F. Rademakers: Patofiziologijom ishemije do
razumijevanja oslikavanja / Pathophysiology of
ischaemia to understand imaging

V. Nikolić Heitzler: Uloga ehokardiografije u kasnoj
PCI bolesnika sa STEMI infarktomiokarda -
Uvodni prikaz slučaja / Role of echo in late PCI of a
patient with STEMI - Introductory case presentation

M. Čikeš: Korisnost dobutaminske stres
ehokardiografije - kada i zašto? / Usefulness of
dobutamine stress echocardiography - why and when?

M. Jukić: CCTA - Potpuno rješenje u oslikavanju
koronarne bolesti srca / CCTA - One stop shop
solution to CAD imaging

V. Peršić: Magnetska rezonanca u ishemijskoj
bolesti srca - više od strukturne analize / Magnetic
resonance imaging in ischemic heart disease:
beyond structural analysis

12:00-13:00 **RADNI RUČAK / LUNCH SYMPOSIUM**
Organised by Philips Healthcare

T. Buck: Kako koristim 3D ehokardiografiju za
kvantificiranje protoka u bolesti zalistaka / How do
I use 3D echocardiography for flow quantification in
valve disease?

13:00-13:30 **Stanka za ručak / Lunch break**
Pregled postera / Posters session

13:30-14:30 **GODIŠNJI SASTANAK RADNE SKUPINE ZA EHOKARDIOGRAFIJU I SLIKOVNE METODE U KARDIOLOGIJI / ANNUAL MEETING OF THE WORKING GROUP ON ECHOCARDIOGRAPHY AND CARDIAC IMAGING MODALITIES**

14:30-16:30 **PUT DO DIJAGNOZE - NAJZANIMLJIVIJI SLUČAJEVI IZ KLINIČKE PRAKSE / ROAD TO DIAGNOSIS - MOST INTERESTING CASES FROM CLINICAL PRACTICE**

Predsjedatelji / Chairpersons:

E. Srbinovska, I. Božić, A. Nešković

J. Vincelj: Three-dimensional echocardiography in unicuspid mitral valve

J. Poklukar: Assessment of quadricuspid aortic valve with real-time 3D TTE

V. Pehar-Pejčinović: Development of dyspnea in young female patient with D transposition of great vessels operated by Seening procedure

F. Ferati: The effects of rhythm changes in function and EF of the LV - the need for conversion

M. Klobučić: Imaging in carcinoid heart disease

J. Cmrečnjak: A case of transient constrictive pericarditis in a 42-year old patient

M. Boban: Persistent Left Superior Vena Cava with almost complete anomalous pulmonary venous connection and atrial septal defect mimicking Eisenmenger's syndrome in an adult symptomatic female patient

K. Kapov Sviličić: One possible way to treat a 76-years old patient with the congenital heart disease and coronary artery disease

I. Stanković: Tricuspid valve leaflets identification in standard echo views – would you dare make a bet?

16:30-17:00 **ZATVARANJE SKUPA / CLOSING CEREMONY**

08:30-17:00

RITMOLOGIJA / RYTHMOLOGY

Voditelji: D. Žagar, K. Šutalo, A. Ružić, I. Božić

A. Anić, Z. Bakotić, M. Bištirlić, K. Librenjak, I. Pavić, M. Harapin, D. Kasap, A. Jović: Common pulmonary veins anatomic variants assessed by routine preprocedural multislice computed tomography angiography and its impact on success of atrial fibrillation ablation – single center experience in 75 cases

G. Bajraktari, F. Rönn, P. Ibrahim, F. Jashari, S. M. Jensen, M. Y. Henein: Total isovolumic time, a marker of global left ventricular dyssynchrony, optimizes patient's selection for cardiac resynchronization therapy

G. Bajraktari, F. Rönn, P. Ibrahim, F. Jashari, S. M. Jensen, M. Y. Henein: Total isovolumic time, a marker of global left ventricular dyssynchrony, predicts response to cardiac resynchronization therapy in heart failure patients with atrial fibrillation

G. Bajraktari, P. Lindqvist, M. Y. Henein: Total isovolumic time, a marker of left ventricular global dyssynchrony, is prolonged with age

PROCJENA SRČANE FUNKCIJE / EVALUATION OF CARDIAC FUNCTION

A. Batalli, G. Bajraktari, I. Kurtishi, N. Rexhepaj, R. Tafarshiku, P. Ibrahim, F. Jashari, R. Alihajdari, A. Poniku, S. Elezi, M. Y. Henein: Total isovolumic time predict limited exercise capacity in male patients with heart failure, but in female

P. Ibrahim, G. Bajraktari, A. Poniku, V. Hysenaj, A. Ahmeti, F. Jashari, E. Haliti, M. Y. Henein: Right ventricular dysfunction predict limited exercise capacity in heart failure with reduced ejection fraction

N. Jakuš, G. R. Sutherland, M. Čikeš, P. Haemers, JU. Voigt, F. Rademakers, J. D'hooge, P. Claus:

How rapidly can diastolic function alter with acute afterloading? Insights from a closed chest/closed pericardium acute afterload porcine model

N. Jakuš, G. R. Sutherland, M. Čikeš, P. Haemers, JU. Voigt, F. Rademakers, J. D'hooge, P. Claus: Acute Cardiac Remodeling in Short Term Acute Afterload Increase - the Effect of Pericardial Constraint

D. Lovrić, D. Miličić, J. Samardžić, V. Rešković Lukšić, Ž. Baričević, M. Čikeš, B. Skorić, I. Škorak, J. Ljubas Maček, I. Ivanac Vranešić, J. Šeparović Hanževački: Evaluation of early left-ventricular remodeling 6 months after heart transplantation

V. Perić, P. Otašević: Presence of risk factors for cardiovascular disease in patients with dilated cardiomyopathy with and without preserved left ventricular contractile reserve

A. Fabris, M. Jakovljević: Speckle tracking exercise stress echocardiography

VALVULARNE BOLESTI / VALVULAR DISEASES

E. Idoski, T. Angusheva, Z. Mitrev: Reverse left ventricular remodelling after surgical correction of ischaemic mitral regurgitation

D. Klepo, J. Mirat: Valvuloarterial impedance - parameter of overall load in aortic stenosis and hypertension

S. Makarović, Z. Makarović, M. Maras, A. Džumhur, D. Novosel: Incidence of tricuspid regurgitation and the total number of tricuspid valve surgery in patients with mitral valve disease, on Clinical department of Cardiology Clinical Hospital Center Osijek

I. Planinc, Ž. Baričević, V. Rešković Lukšić, D. Lovrić, S. Večerić, J. Šeparović Hanževački: Three-dimensional echocardiography in classification of Ebstein's anomaly: a case report on agenesis of the tricuspid valve posterior leaflet

**08:30-17:00 DRUGE METODE OSLIKAVANJA SRCA / OTHER
CARDIAC IMAGING MODALITIES****Voditelji:** D. Žagar, K. Šutalo, A. Ružić, I. Božić**I. Peovska, E. Srbinovska-Kostovska, M. Otljanska, F. Arnaudova, M. Vavlukis, N. Kostova, E. Hristova:**

Myocardial gated SPECT imaging in asymptomatic diabetic patients: clinical decision and optimal therapeutic approach

D. Lovrić, F. Thuny, C. Carmona, F. Schnell, L. Ernande, H. Thibault, C. Bergerot, J. Ninet, P. Croisille, G. A. Derumeaux:

Quantification of Myocardial Extracellular Volume Fraction by Cardiac Magnetic Resonance for Early Detection of Left Ventricle Involvement in Systemic Sclerosis

F. Thuny, C. Carmona, D. Lovrić, F. Schnell, L. Potton, C. Bergerot, M. Barthelet, S. Thivolet, C. Lacote-Roiron, L. Boyer, V. Cottin, JF Cordier, A. Hot, J. Ninet, L. Ernande, H. Thibault, P. Croisille, G. Derumeaux:

Detecting Early Myocardial Involvement in Systemic Sclerosis Using Cardiac Magnetic Resonance T1 Mapping and Speckle Tracking Echocardiography in Correlation with Plasma Concentration of C-Terminal Pro-Endothelin-1

N. Mešanović, E. Smajić: Future possibilities in advanced cardiac image analysis

**PRIKAZI KLINIČKIH SLUČAJEVA / CLINICAL CASES
PRESENTATIONS****M. Marković, Nj. Gredelj Šimec, T. Letilović, A. Planinc-Peraica, S. Ostojić Kolonić:** Left ventricular mycotic mass and diffuse mycotic myocarditis in a patient with hemophagocytic syndrome – case report**S. Biočić, D. Rudan, Ž. Đurašević, J. Vincelj:**

Fibroelastoma or atheromatous plaque: a case report

N. Drinković Jr, N. Drinković, J. Šeparović Hanževački, S. Ceković, V. Rešković Lukšić, K. Marić Bešić:

Right heart echo case selection - possible pitfalls

A. Džumhur, L. Maričić, K. Jelić, S. Makarović: Case report -pulmonary embolism and necessity of use heart echocardiography in Emergency Department

B. Glavaš Konja, M. Strozzi, D. Anić, S. Večerić, S. Ceković, J. Šeparović Hanževački: Pulmonary Regurgitation and Pulmonary Branch Kinking: Long-term Complication in Adults with Repaired Tetralogy of Fallot

S. Jordanova, A. Nikolov: Myxoma in right atrium-case report

I. Peovska, E. Srbinovska-Kostovska, M. Bosevski: Urgent bed site echocardiography in diagnosis of acute massive pulmonary embolism presenting with cardiogenic shock- case report

I. Petrović Juren, V. Soukup Podravec, A. Čleković-Kovačić, M. Klobučić, K. Milevoj Križić: Suppurative cystadenoma of ovary with left ventricular thrombus: a case report

M. Brida, I. Ivanac Vranešić, V. Nakić, J. Šeparović Hanževački, A. Šmalcelj, E. Margetić, P. Angebrandt: Accidental discovery of left ventricular diverticulum

M. Balaban Kumpare, D. Raljević, K. Milas, D. Dodić. N. Jukić, V. Peršić: Right atrial myxoma associated with atrial flutter rhythm

V. Rešković Lukšić, K. Marić Bešić, N. Drinković Jr, M. Strozzi, B. Belev, B. Biočina, J. Šeparović Hanževački, N. Drinković: Right atrial metastatic endometrial adenocarcinoma- case report

V. Rešković Lukšić, K. Marić Bešić, N. Drinković Jr, N. Drinković, J. Šeparović Hanževački: Paravalvular aortic abscess - role of echocardiography

D. Rudan, S. Biočić, Ž. Đurašević, J. Vincelj: Ruptured Aneurysm of the Noncoronary Sinus of Valsalva into the Right Atrium

3

TEČAJ OSNOVA EHOKARDIOGRAFIJE /
BASIC ECHOCARDIOGRAPHY COURSE



Cilj tečaja je steći i/ili obnoviti osnovna znanja i vještine u ehokardiografiji, u skladu sa smjernicama nastavnog programa EACVI-ja. Uz pomoć odabranih predavača iz Hrvatske i inozemstva, teorijskim dijelom tečaja obuhvatit će se teme u rasponu od fizikalnih osnova ehokardiografije, optimiziranja prikaza i osnova rada s ehokardiografskim uređajem do procjene funkcije srca, srčanih zalistaka i hemodinamike, uz osvrt na najčešće bolesti srčanog mišića, prirodene bolesti srca, endokarditise nativnih i umjetnih srčanih zalistaka te otkrivanje novotvorina srca. Nakon svakog teorijskog dijela slijedi tematska slikovna vježbaonica gdje će sudionici uz stručno vodstvo raditi na radnim stanicama. Vježbaonice su osmišljene tako da svaki sudionik može kroz primjenu teorijskog znanja usvojiti nove vještine u mjerenjima i analizi pohranjenih slikovnih podataka stvarnih slučajeva iz kliničke prakse. Tečaj osnova ehokardiografije ima ulogu utvrđivanja opsega temeljnog znanja ehokardiografičara te predstavlja osnovu za proces nacionalne akreditacije iz ehokardiografije. Za vrijeme tečaja interaktivno će se prikazivati i primjeri zadataka s ispita za nacionalnu akreditaciju. Na kraju tečaja provest će se anketa o tečaju i ispit znanja. Uspješno položen ispit vrjednovat će se u postupku nacionalne akreditacije.

/ The goal of this course is to acquire and/or renew basic theoretical knowledge and practical skills in accordance with the guidelines defined by the core syllabus of EACVI. Faculty is comprised of both domestic and european leading experts, and interactive lectures will encompass everything from physical principles of echocardiography through image optimization up to the evaluation of valves, cardiac function and hemodynamics. Special attention will be placed on the most common myocardial diseases, congenital heart diseases, infections of both native and artificial valves, and detection of cardiac tumors. Besides the theoretical part, imaging campus will provide six hands-on thematic workshops that will give participants a chance to acquire new skills and apply their knowledge on clinical cases through echocardiographic workstations.

The role of Basic Echocardiography Course is to determine the scope of basic echocardiography knowledge and delineates the foundation for the process of national accreditation in echocardiography. The course will offer an opportunity to interactively address examples from the national accreditation exam. Evaluation of the course and exam will be held at the end of the course. Successful passing of the exam will be valuated in the accreditation process.

Elafiti Hall 2

14:00-15:30 **FIZIKALNI I TEHNIČKI TEMELJI**
EHOKARDIOGRAFIJE / PHYSICAL AND TECHNICAL
PRINCIPLES OF ECHOCARDIOGRAPHY

Moderator: A. Ružić

J. Šeparović Hanževački: Fizikalni temelji
ehokardiografije / Physical fundamentals of
echocardiography

A. Ružić: 2D & M-prikaz ehokardiografija / 2D &
M-mode echocardiography

M. Čikeš: Dopplerska ehokardiografija / Doppler
echocardiography

15:30-16:00 *Stanka uz kavu, Slikovna vježbaonica /*
Coffee break, Imaging campus

16:00-17:30 **STANDARDIZIRANI EHOKARDIOGRAFSKI PREGLED**
/ STANDARDIZED ECHOCARDIOGRAPHIC
EXAMINATION

Moderator: M. Ivanuša

V. Rešković Lukšić: Optimizacija ehokardiografskog
prikaza / Optimization of echocardiographic display

M. Ivanuša: Potpuni ehokardiografski pregled /
Complete echocardiographic examination

L. Badano: Ehokardiografija i anatomske odnose /
Echocardiography and anatomical correlates

18:15-20:00 **SVEČANOST OTVARANJA / OPENING CEREMONY**
Počasno predavanje / Honorary lecture
G. Sutherland: The Pathophysiology of Acute LV
Pressure Overload and its Potential Link to Sudden
Death

20:00 **DOMJENAK DOBRODOŠLICE / WELCOME COCKTAIL**

Elafiti Hall 2

08:30-10:00 **FUNKCIJA I HEMODINAMIKA / FUNCTION AND HEMODYNAMICS****Moderator:** M. Čikeš**A. Nešković:** Procjena volumena i sistoličke funkcije lijeve klijetke / Assessment of left ventricular volume and systolic function**F. Flachskampf:** Procjena dijastoličke funkcije / Assessment of diastolic function**M. Čikeš:** Ehokardiografija u nein vazivnoj procjeni hemodinamike / Echocardiography in non-invasive assessment of hemodynamics

10:00-11:00 Stanka uz kavu, Slikovna vježbaonica /
Coffee break, Imaging campus

11:00-12:00 **SRČANA PRILAGODBA / CARDIAC REMODELLING****Moderator:** M. Nikšić**A. Ružić:** Srce u volumnom opterećenju / Heart in volume overload**I. Božić:** Srce u tlačnom opterećenju / Heart in pressure overload

12:00-14:00 Stanka za ručak, Slikovna vježbaonica /
Lunch break, Imaging campus

14:00-16:00 **PROCJENA MITRALNOG I AORTNOG ZALISTKA / MITRAL AND AORTIC VALVE ASSESSMENT****Moderator:** K. Šutalo**N. Bulj:** Mitralni zalistak - Morfologija i procjena stenoze / Mitral valve - Morphology and assessment of stenosis**N. Drinković:** Mitralni zalistak - Procjena regurgitacije / Mitral valve - Assessment of regurgitation

K. Šutalo: Aortni zalistak - Morfologija i procjena stenozе / Aortic valve - Morphology and assessment of stenosis

D. Delić-Brkljačić: Aortni zalistak - Procjena regurgitacije / Aortic valve - Assessment of regurgitation

16:00-16:30 Stanka uz kavu, Slikovna vježbaonica /
Coffee break, Imaging campus

16:30-18:30 **DESNO SRCE, PRIROĐENE SRČANE BOLESTI I
SMJERNICE / RIGHT HEART, CONGENITAL HEART
DISEASES AND GUIDELINES**

Moderator: D. Planinc

M. Kowalski: Najčešće prirodene srčane bolesti /
Most common congenital heart diseases

L. Herbots: Pregled desnog srca i procjena tlakova
u plućnoj cirkulaciji / Overview of right heart and
assessment of pressures in lung circulation

D. Planinc: Desnostrani srčani zalistci - Morfološka
i funkcijska procjena / Right-sided heart valves -
Morphological and functional assessment

Ž. Baričević: EACVI/ASE smjernice za primjenu
ehokardiografije u kliničkoj praksi / EACVI/ASE
recommendations for echocardiography in clinical
practice

20:00 **ZAJEDNIČKA VEČERA / CONGRESS DINNER**

TEČAJ / COURSE

SUBOTA, 25. SVIBNJA 2013 / SATURDAY, MAY 25th 2013

Elafiti Hall 2

08:30-10:00 **BOLESTI SRČANOG MIŠIĆA / MYOCARDIAL DISEASES**

Moderator: V. Peršić

V. Peršić: Dilatacijska kardiomiopatija / Dilatative cardiomyopathy

F. Rademakers: Hipertrofijska i restriksijska kardiomiopatija / Hypertrophic and restrictive cardiomyopathy

D. Lovrić: Ehokardiografija u ishemijskoj bolesti srca / Echocardiography in ischaemic heart disease

10:00-11:00 Stanka uz kavu, Slikovna vježbaonica /
Coffee break, Imaging campus

11:00-13:00 **EHOKARDIOGRAFIJA U KLINIČKOJ PRAKSI I ULOGA TEE-A / ECHO IN CLINICAL PRACTICE AND THE ROLE OF TOE**

Moderator: N. Bulj

N. Bulj: Osnove TEE-a i procjena u akutnom aortnom sindromu / The basics of TEE and assessment of acute aortic syndrome

J. Vincelj: Procjena endokarditisa / Assessment of endocarditis

D. Žagar: Srčane novotvorine / Cardiac tumors

M. Nikšić: Bolesti perikarda / Pericardial diseases

V. Brida: Procjena umjetnih srčanih zalistaka / Assessment of artificial heart valves



13:00-14:30 Stanka za ručak, Slikovna vježbaonica /
Lunch break, Imaging campus

14:30-16:30 **OSVRT I PROVJERA ZNANJA / OVERVIEW AND
EXAMINATION**

16:30-17:00 **ZATVARANJE SKUPA / CLOSING CEREMONY**

4

RADIONICE / HANDS-ON WORKSHOPS



O RADIONICAMA / ABOUT THE HANDS-ON WORKSHOPS

Radionice su praktični dio programa, odvijaju se u posebno priređenoj dvorani, u grupi do 30 sudionika. Praktičan rad je zamišljen na nekoliko razina kako bi svaki sudionik pronašao najkorisniji praktični sadržaj. U radionicama možete sudjelovati u ehokardiografskom pregledu iskusnog ehokardiografičara u živo, raditi na radnim stanicama tijekom slikovnih vježbaonica, kako u sklopu osnova ehokardiografije tako i naprednih ehokardiografskih metoda.

Radionice su posebna prigoda za učenje od najpoznatijih europskih stručnjaka za trodimenzionalnu ehokardiografiju i deformaciju miokarda, kao i izazov u stjecanju iskustva u radu s programskim podrškama za naknadnu ehokardiografsku analizu na radnim stanicama.

/ Workshops are a practical part of the program, being organized in groups of 30 participants and in separate halls. The practical work will take place in several courses so that each participant can chose the most useful practical content for him/her. In workshops you can participate in echocardiographic examination by an experienced echo-cardiographer on site, work on workstations in imaging workshops, both within the framework of basic echocardiography and advanced echocardiographic methods. Workshops provide an excellent occasion to learn from renowned European experts for three-dimensional echocardiography and myocardial deformation as well as a great opportunity for you to gain experience in the software support for subsequent echocardiographic analysis on workstations.

RADIONICE / HANDS-ON WORKSHOPS

ČETVRTAK, 23. SVIBNJA 2013 / THURSDAY, MAY 23rd 2013

Elafiti Hall 1

15:30-16:30 **SLIKOVNA VJEŽBAONICA I / IMAGING CAMPUS I**
2D, M-prikaz i Dopplerska ehokardiografija,
Optimizacija prikaza / 2D, M-mode & Doppler,
Optimization

Moderator: M. Brida

18:15-20:00 **SVEČANOST OTVARANJA / OPENING CEREMONY**
Počasno predavanje / Honorary lecture
G. Sutherland: The Pathophysiology of Acute LV
Pressure Overload and its Potential Link to Sudden
Death

20:00 **DOMJENAK DOBRODOŠLICE / WELCOME COCKTAIL**

RADIONICE / HANDS-ON WORKSHOPS
PETAK, 24. SVIBNJA 2013 / FRIDAY, MAY 24th 2013

Elafiti Hall 1

- 08:30-10:00** **PREGLED SA STRUČNJAKOM / SCANNING WITH AN EXPERT**
Moderator: D. Planinc
-
- 10:00-11:00** **SLIKOVNA VJEŽBAONICA II / IMAGING CAMPUS II**
Hemodinamske procjene / Hemodynamic assessments
Moderator: M. Čikeš
-
- 11:00-12:00** **ZAJEDNO SA STRUČNJAKOM: TRODIMENZIJSKA EHOKARDIOGRAFIJA / WORKING WITH AN EXPERT: 3D ECHOCARDIOGRAPHY**
Moderator: L. Badano
-
- 12:00-13:00** **SLIKOVNA VJEŽBAONICA III / IMAGING CAMPUS III**
Procjena mitralnog zalistka / Mitral valve assessment
Moderator: V. Rešković Lukšić
-
- 14:00-15:30** **ZAJEDNO SA STRUČNJAKOM: DVODIMENZIJSKA PROCJENA DEFORMACIJE MIOKARDA / WORKING WITH AN EXPERT: 2D STRAIN/SPECKLE TRACKING DEFORMATION IMAGING**
Moderator: M. Kowalski
-
- 16:00-17:00** **SLIKOVNA VJEŽBAONICA IV / IMAGING CAMPUS IV**
Procjena aortnog zalistka / Aortic valve assessment
Moderator: Ž. Baričević
-
- 17:00-18:00** **PHILIPS HEALTHCARE RADIONICA / PHILIPS HEALTHCARE HANDS-ON WORKSHOP**
-
- 20:00** **ZAJEDNIČKA VEČERA / CONGRESS DINNER**

Elafiti Hall 1

08:00-10:00 **ZAJEDNO SA STRUČNJAKOM: PROCJENA FUNKCIJE DESNOG SRCA / WORKING WITH AN EXPERT: EVALUATION OF THE RIGHT HEART**

Moderator: A. van Dijk

10:00-11:00 **SLIKOVNA VJEŽBAONICA V / IMAGING CAMPUS V**
Procjena desnog srca, prirođene srčane bolesti /
Right heart assessment, GUCH

Moderator: D. Žagar

11:00-13:00 **ZAJEDNO SA STRUČNJAKOM: PROCJENA FUNKCIJE DESNOG SRCA / WORKING WITH AN EXPERT: EVALUATION OF THE RIGHT HEART**

Moderator: A. van Dijk

13:00-14:00 **SLIKOVNA VJEŽBAONICA VI / IMAGING CAMPUS VI**
Bolesti srčanog mišića i ishemijska bolest srca /
Cardiomyopathies and ischaemic heart disease

Moderator: J. Ljubas Maček

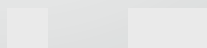
14:00-16:30 **ZAJEDNO SA STRUČNJAKOM: PROCJENA FUNKCIJE DESNOG SRCA / WORKING WITH AN EXPERT: EVALUATION OF THE RIGHT HEART**

Moderator: A. van Dijk

16:30-17:00 **ZATVARANJE SKUPA / CLOSING CEREMONY**

5

INFORMACIJE / INFORMATION



USMENA IZLAGANJA / ORAL PRESENTATIONS

- Pozvani predavači: 15 minuta + 5 minuta rasprave
- Usmena izlaganja: 10 minuta + 3 minute rasprave
- Molimo sve predavače da se izričito pridržavaju satnice.
- Predavanja se izlažu na hrvatskom, a inozemni gosti na engleskom.
- Mole se svi predavači da pripreme Power Point prezentaciju na engleskom jeziku.

- Invited speakers: 15 minutes + 5 minutes discussion
- Oral presentations: 10 minutes + 3 minutes discussion
- All presenters are kindly asked to strictly adhere to the timetable.
- All speakers are required to prepare Power Point presentations in English.

IZLAGANJA POSTERA / POSTER PRESENTATIONS

- Posteri će biti izloženi na panoima i mogu biti pripremljeni na hrvatskom ili engleskom jeziku.
- Maksimalne dimenzije postera: 90 cm širina x 120 cm visina
- Najbolji posteri će biti nagrađeni.
- Posteri se izlažu u dvije sekcije u petak i subotu.
- Svi posteri koji se izlažu taj dan moraju biti izvješeni prije 08:30 i skinuti poslije 17:00h.
- Odbor za ocjenjivanje će obilaziti i ocjenjivati postere u petak 10:00 - 10:30, 16:00 - 16:30; i u subotu 10:00 - 10:30, 13:00 - 13:30.
- Mole se izlagači da u navedeno vrijeme budu pored svojih postera.

- The posters can be prepared in English or Croatian language and will be displayed on the poster boards.
- The poster should not exceed 90 cm width x 120 cm height/ portrait-style.
- The best posters will be awarded.
- Posters will be presented in two sessions on Friday and Saturday
- All posters presented on that day should be put up before 8:30 AM and removed after 5:00 PM.
- Dedicated experts will visit and evaluate the posters on Friday 10:00 - 10:30 AM, 4:00 - 4:30 PM; on Saturday 10:00 - 10:30, 1:00 - 1:30 PM.
- All presenters are kindly asked to be present at that time alongside their posters.

SLUŽBENI JEZIK / OFFICIAL LANGUAGE

Službeni jezici skupa su hrvatski i engleski. Simultano prevođenje neće biti omogućeno. / The official languages of the meeting are Croatian and English. Simultaneous translation will not be available.

KNJIGA SAŽETAKA / ABSTRACT BOOK

Svi prihvaćeni sažetci bit će objavljeni u *Cardiologia Croatica*, službenom časopisu Hrvatskog kardiološkog društva (indeksiran u EBSCO). <http://www.kardio.hr/cardiologia-croatica/arhiva.html>

/ All accepted abstracts will be published in *Cardiologia Croatica*, journal of the Croatian Cardiac Society (indexed in EBSCO).
<http://www.kardio.hr/cardiologia-croatica/arhiva.html>



WEB STRANICE / WEB SITE

Detaljne informacije o skupu možete vidjeti na web stranicama skupa: croecho2013.kardio.hr / For more detailed information about the Meeting please visit the meeting's web site: croecho2013.kardio.hr



DRUŠTVENI PROGRAM / SOCIAL PROGRAMME

SVEČANOST OTVARANJA: 23. svibnja 2013. u 18:15 sati,
Glavna kongresna dvorana Elafiti, hotel Valamar Lacroma

DOMJENAK DOBRODOŠLICE: 23. svibnja 2013. u 20:00 sati,
Hotel Valamar Lacroma

ZAJEDNIČKA VEČERA: 24. svibnja 2013 u 20:00 sati,
Hotel Valamar Lacroma

OPENING CEREMONY: May 23rd, 2013 6:15 PM,
Main congress hall Elafiti, hotel Valamar Lacroma

WELCOME COCKTAIL: May 23rd, 2013 8:00 PM,
Hotel Valamar Lacroma

CONGRESS DINNER: May 24th, 2013 8:00 PM,
Hotel Valamar Lacroma

VRJEDNOVANJE I POTVRDA O SUDJELOVANJU / ACCREDITATION AND CERTIFICATE OF ATTENDANCE

Potvrda o sudjelovanju dodijeliti će se svim sudionicima koji su prisustvovali znanstvenom programu, tečaju ili sudjelovali u radionicama s prethodno plaćenom kotizacijom.

/ Certificate of Attendance will be issued for all participants attending the Meeting.



Europski odbor za akreditaciju u kardiologiji (EBAC) priznaje sudjelovanje na CroEcho-u 2013 s najviše 14 sati i dodjeljuje 14 CME bodova. Bodovi se priznaju samo za one sate koji su provedeni u edukativnoj aktivnosti. EBAC djeluje u skladu s mjerilima kvalitete Europskog akreditacijskog udruženja za trajno medicinsko obrazovanje (EACCME), koji je u sastavu Europskog saveza medicinskih specijalista (UEMS).

/ CroEcho 2013 is accredited by the European Board for Accreditation in Cardiology (EBAC) for 14 hours of External CME credits. Each participant should claim only those hours of credit that have actually been spent in the educational activity. EBAC works according to the quality standards of the European Accreditation Council for Continuing Medical Education (EACCME), which is an institution of the European Union of Medical Specialists (UEMS).



Europsko udruženje kardiovaskularnog oslikavanja (EACVI) potvrdilo je kvalitetu tečaja, koja je u skladu s nastavnim sadržajima i uvjetima koje propisuje Edukacijski odbor EACVI-ja, te je tečaju CroEcho 2013 dodijeljen naslov "Ehokardiografski tečaj s potvrdom EACVI-ja".

/European Association on Cardiovascular Imaging (EACVI) Education Committee and Leadership has acknowledged CroEcho 2013 course as an «EACVI certified echocardiography course».

CLIMATE

The climate along in the Dubrovnik region is typically Mediterranean. May is usually warm with daytime maximum temperatures up to 28 °C, and night temperature decrease to around 15 °C. The sea is warm enough for swimming.

TIME DIFFERENCE

Croatia is on Central European Time, one hour ahead of GMT. It observes Daylight Savings Time, so remains one hour ahead of the UK, and six hours ahead of New York, all year round.

SAFETY

Dubrovnik is as safe as any other European tourist city. Participants are advised to take the usual prudent precautions.

ELECTRICITY

The electricity power supply in Croatia is 220 Volt and uses a European standard plug of round 2-pin type.

GENERAL EMERGENCY CALLS

The emergency and assistance services are available on the number 112.

CREDIT CARDS

All major credit cards are accepted in hotels and ATMs are available.

BANKS

Banks are generally open Monday through Friday, 7:30-19:00 and are closed on Saturdays, Sundays and holidays.

CURRENCY EXCHANGE

The official currency in Croatia is Kuna (HRK). Kuna notes are issued in denominations of 10, 20, 50, 100, 200, 500 and 1000. Coins come in denominations of 1, 2 & 5 Kuna and 50, 20, 10, 5, 2 and 1 lipa pieces. Exchange can be carried out in banks, exchange offices and most hotels. There is a limit on the amount of foreign currency which may be brought in or out of the country (10.000,00) EUR.



TRANSPORTATION

Dubrovnik has convenient public bus transportation. Line 6 takes you from Babin Kuk (Congress Venue) to Pile gate in city center and back. Additional information is available at the registration desk. Taxi is about 65 kunas (8 EUR).

RESTAURANTS IN DUBROVNIK

Restaurants in Dubrovnik offer various types of cuisine and country's diverse variety of wine. More information on restaurant reservation is available at the Info desk in the registration area.

INTERNET

Free wireless internet is available in all Valamar hotels. For more information please visit the Info desk in the Valamar Lacroma Dubrovnik Hotel.

MOBILE PHONES

In Croatia, mobile phones use the frequency bands GSM-900 and GSM-1800. As a courtesy to other participants, please turn off your mobile phone when entering any of the meeting rooms.

INSURANCE

It is strongly recommended that participants take out adequate cover for health, travel and private liability insurance. The organisers cannot accept responsibility for personal injury, loss or damage to private property belonging to the congress participants and accompanying persons.



LOST PROPERTY

If you see any unattended items or objects, please report immediately to one of the congress staff members. Should you lose anything at the Congress Venue or the Exhibition, please enquire at the registration desk where any lost property will be held.

ACCESS/SECURITY

Participants and accompanying persons are requested to wear their badges at all times during the Meeting, social events and functions. Please do not leave any of your personal belongings unattended during the Meeting.

SERVICES FOR THE DISABLED

The Congress Centre, Valamar Complex and Exhibition are accessible to delegates with disabilities.

SMOKING POLICY

The Congress is smoke-free and smoking is not permitted in the Congress Venue and the Exhibition area.

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KOTIZACIJE / REGISTRATION FEES

RANA KOTIZACIJA uplaćena do 15. veljače 2013. / EARLY REGISTRATION FEE paid until February 15th, 2013

Sudionik / Participant	300,00 €
Članovi Radne skupine / Members of the Working Group	280,00 €
Sudionik < 35 godina / Participant < 35 y	200,00 €

KASNA KOTIZACIJA uplaćena nakon 16. veljače 2013. / LATE REGISTRATION FEE paid from February 16th, 2013

Sudionik / Participant	400,00 €
Članovi Radne skupine / Members of the Working Group	380,00 €
Sudionik < 35 godina / Participant < 35 y	300,00 €

KOTIZACIJA NA KONGRESU od 17. svibnja 2013. / ON SITE REGISTRATION FEE from May 17th, 2013

Sudionik / Participant	480,00 €
Članovi Radne skupine / Members of the Working Group	450,00 €
Sudionik < 35 godina / Participant < 35 y	330,00 €

Osobe u pratnji / Accompanying persons	80,00 €
Izlagači / Exhibitors	200,00 €

KOTIZACIJA UKLJUČUJE: sudjelovanje u znanstvenom programu skupa, pristup izložbenom prostoru, materijale skupa, prisustvovanje otvorenju skupa s koktelom dobrodošlice, pristup satelitskim simpozijima, kave u stankama, ručkove i svečanu večeru.

/ REGISTRATION FEE INCLUDES: participation in the scientific programme of the Meeting, access to the exhibition area, materials of the Meeting, welcome cocktail, access to the Satellite Symposiums, coffee breaks, lunches and the gala dinner.

TROŠKOVI OTKAZIVANJA KOTIZACIJA BIT ĆE PRIMIJENJENI:

Trošak administracije od 25,00€ bit će zaračunat za svaku promjenu podataka u registraciji. Otkazi primljeni do 15. veljače 2013. bit će izvršen potpuni povrat sredstava umanjen za administrativni trošak od 25,00€. Otkazi primljeni od 16. veljače do 1. svibnja 2013. bit

će izvršen potpuni povrat sredstava umanjen za administrativni trošak od 50,00€. Za otkaze primljene nakon 2. svibnja 2013. povrat sredstava nije moguć.

O svakoj promjeni rezervacije ili otkazivanju pismeno nas obavijestite na e-mail info@361events.hr

/ THE FOLLOWING CANCELLATION FEES WILL APPLY: participation Administrative fee of 25.00€ will be charged for every change in the participants registration information. Cancellations received until February 15th, 2013: Refund minus the administrative fee of 25.00€. Cancellations received from February 16th, till May 1st, 2013: Refund minus administrative fee of 50.00€ . Cancellations received after May 2nd, 2013: No refund is possible. In case you wish to make any changes in your registration, please contact us by e-mail info@361events.hr

SMJEŠTAJ / ACCOMMODATION

Hotelski smještaj osiguran je po posebnim cijenama za sudionike skupa u Hotelu Valamar Lacroma 4* i hotelu Argosy 3*. / Hotel accommodation is offered at special rates for participants of the Symposium in Hotel Valamar Lacroma 4* and hotel Argosy 3*.

Hotel name	Kategorija	Jednokrevetna	Dvokrevetna	Napomena
Valamar Lacroma pogled park	4	145	155	Kongresni hotel
Valamar Lacroma pogled more	4	167	178	Kongresni hotel
Valamar Argosy	3	97	108	3 minute hoda

Cijena je izražena u eurima po sobi s uključenim noćenjem s doručkom, boravišnom pristojbom i PDV (10%)

Hotel name	Star rating	Single	Double	Remarks
Valamar Lacroma park view	4	145	155	Venue
Valamar Lacroma sea view	4	167	178	Venue
Valamar Argosy	3	97	108	3 minutes walk

Price in EUR includes: price per room, per night, breakfast, VAT (10%) and city tax.



Dobrodošli u Dubrovnik – grad tisućljetne tradicije koji pruža ponešto za svakoga.

Dubrovnik je srednjovjekovni grad na hrvatskom dijelu Jadranske obale i riznica kulturno-povijesnih spomenika koji su nastajali tijekom tisućgodišnjeg razdoblja njegovog postojanja.

U prošlosti, to je bio Grad-Republika, uz Veneciju i jedan od najpoznatijih kulturnih i gospodarskih središta na Mediteranu. U novije vrijeme, postao je centar suvremenih kulturnih i turističkih zbivanja: grad ljetnih festivala - međunarodne smotre vrhunskih dostignuća glazbenog i scenskog stvaralaštva te grad muzeja i galerija. Te vrijednosti stvorile su od Dubrovnik a prostor koji pruža bogat izbor raznovrsnih doživljaja i uzbuđenja, ali i potpuni odmor u tihom i smirujućem, blagom mediteranskom ambijentu prekrasnih primorskih pejzaža.

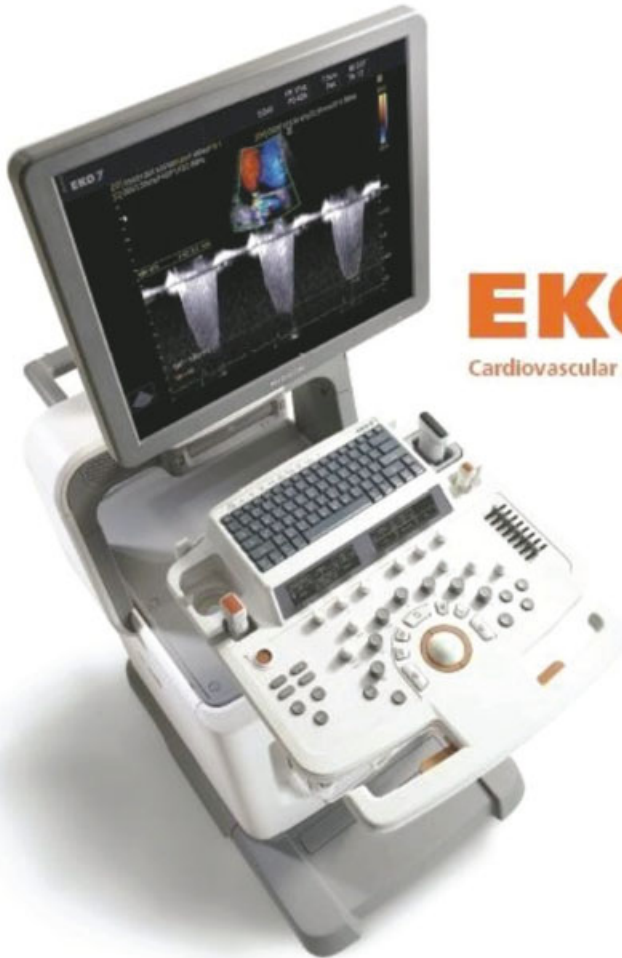
Dubrovačke zidine su pojasom savršeno očuvani kompleks javnih i privatnih, sakralnih i svjetovnih građevina iz svih perioda gradske povijesti, od samog osnutka u 7. stoljeću. Od 1979. godine Dubrovnik je u registru UNESCO-a kao zaštićena svjetska baština. Poseban naglasak treba staviti na glavnoj gradskoj ulici u staroj povijesnoj jezgri - Stradun, Knežev dvor, Sv. Vlaha, Katedrala, tri velika samostana, carinarnice i Gradska vijećnica.

/ Welcome to Dubrovnik – a city of thousand year old tradition that offers something for everyone.



It's a medieval city on the Croatian side of the Adriatic coastline and a treasure trove of cultural and historical monuments that were created throughout its thousand years of existence. In the past, it was a City Republic, and alongside Venice one of the most famous cultural and economic centers on the Mediterranean. In more recent times, it has become the center of modern cultural and tourist events: a city of summer festivals – an international parade of top musical and theatrical achievements and a city of museums and galleries. These values have turned Dubrovnik into a place that offers a rich selection of various experiences and excitement, but also a complete holiday in quiet and calming, mild Mediterranean ambience with wonderful seaside landscapes.

The walls of Dubrovnik girdle a perfectly preserved complex of public and private, sacral and secular buildings representing all periods of the City's history, beginning with its founding in the 7th century. Since 1979 Dubrovnik is in UNESCO register as a protected World heritage. Particular mention should be made of the city's main street in the old historical center – Stradun, Rector's Palace, St. Blaise's Church, Cathedral, three large monasteries, Custom's Office and the City Hall. The Republic of Dubrovnik was the centre of a separate political and territorial entity, and was proud of its culture, its achievements in commerce and especially of its freedom, preserved in the course of the stormy centuries.



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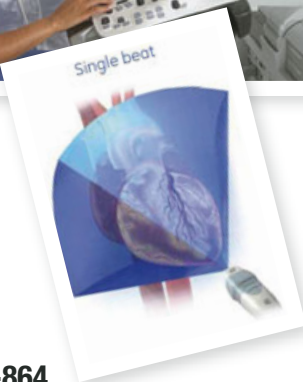
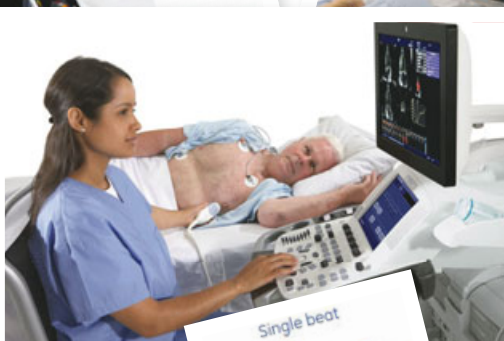
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