



EUROECHO 2010



The fourteenth Annual Meeting of the European Association of Echocardiography, a Registered Branch of the ESC,
in cooperation with the Working Group on Echocardiography of the Danish Society of Cardiology

Join us in...

DENMARK
COPENHAGEN
8-11 December
2010

www.euroecho.org

ADVANCE PROGRAMME



INVITATION

Dear Friends and Colleagues,

We invite you to join us this December in Copenhagen for EUROECHO 2010. EUROECHO is not only the annual meeting of the European Association of Echocardiography (EAE), a registered branch of the European Society of Cardiology, but it has also become one of the greatest educational and scientific meetings on non-invasive cardiovascular diagnosis worldwide.

The main themes this year are non-invasive diagnosis of aorta and vascular diseases, including preclinical diagnosis and risk assessment of atherosclerosis (with a particular focus on multimodality imaging and molecular genetics), and echocardiography for selecting patients and monitoring procedures in the cath lab, including congenital, valve and coronary artery diseases. There will also be joint sessions with the Association of European Pediatric Cardiologists (AEPC) and the ESC Working Group on Grown-up Congenital Heart Disease, the European Association Cardio-Thoracic Anesthesiologists (EACTA), the American Society of Echocardiography (ASE) and the ECOSIAC. In addition, we have further strengthened our successful links with the ESC Working Groups on Cardiovascular Magnetic Resonance, Nuclear Cardiology and Computers in Cardiology with the aim of providing a wider spectrum of multimodality non-invasive assessment of the various cardiovascular conditions.

On Wednesday, there will be 7 advanced teaching courses organised for you: aortic stenosis, 3D echocardiography, congenital heart diseases, transesophageal echocardiography, cardiac mechanics and deformation imaging, contrast echocardiography, left ventricular diastolic function. The more general education course on echocardiography and the DICE clinical case sessions, organised by National Societies, continue throughout the meeting from Thursday to Saturday.

The symposia, DICE and abstract sessions will be organised into educational tracks (identified by colours in the final programme) in order to make it easier for delegates to follow topics of particular interest. Special sessions will be organised with our sister societies and there will also be sessions to present the latest recommendations documents developed by EAE. However, the core of EUROECHO is the presentation of original research and therefore we encourage you and your fellows to submit the results of your scientific studies to be selected for oral abstract sessions, poster sessions or to compete in the Young Investigators Award. In addition, we will continue the successful Imaging Campus, where you can become aware of and have a direct, hands-on trial of the latest software and hardware developments in cardiovascular imaging.

EUROECHO is not only science, but it is also a unique opportunity to meet the greatest experts on cardiovascular diagnosis in the world, to exchange ideas with colleagues with the same professional interest coming from all over the world, and to visit one of the largest exhibitions on cardiovascular imaging and related products. Finally, at EUROECHO you will have the unique chance to meet the newly elected EAE Board members, to know more about EAE and to join one of the EAE committees to contribute to development of non-invasive cardiovascular diagnosis in Europe.

You will be visiting Copenhagen at a festive time of year, when the famous Christmas markets are in full swing. This is a great opportunity to soak up Danish hospitality, learn about local traditions, shop and enjoy delicious seasonal food, while taking in the city's many famous sights and attractions.

Warmest regards,

Professor JL Zamorano
President EAE 2008-2010

Dr. L. Badano
Chairman Programme Committee



EUROECHO 2010 COMMITTEE

EUROECHO 2010 Programme Committee

Dr. P Badano
Chairperson
Programme Committee

Dr. JJ Gomez de Diego
Dr. Fausto Rigo
Scientific Programme Directors

Dr. Christian Hassager
Local Host

S Nagueh, *ASE Representative*

S Aakhus N Ozer
N Baun P Perrone Filardi
B Bjinens BA Popescu
T Buck R Sicari
J D'Hooge P Sogaard
H Frank R Winter
P Lancellotti JL Zamorano
A Neskovic

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President EAE

Dr. LP Badano
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EUROECHO, the Annual Meeting of the European Association of Echocardiography, has become the largest echo meeting in the world in terms of attendance and original scientific content presentation.

EAE is a registered branch of the European Society of Cardiology (ESC). Its mission is to promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular ultrasound in Europe.

EUROECHO 2010 makes **Aorta and vascular diseases** and **3D echo for guiding percutaneous procedures in the cath lab** its central themes.

SCIENTIFIC PROGRAMME

The Scientific Programme has been designed by the EUROECHO 2010 Programme Committee in close collaboration with the ESC Working Groups and Associations.

This year's main sessions will explore the topics of Aorta and vascular diseases and 3D echo for guiding percutaneous procedures in the cath lab. An objective is to focus on practical applications and actual clinical cases - cases will be brought to the audience throughout the different sessions, as **teaching courses, Digital Interactive Clinical Echocardiography, clinical pathways** and even **debates!**

The Scientific Programme of EUROECHO 2010 includes several joint sessions with ESC Working Groups and Sister Societies such as the ESC WG on Grown-up Congenital Heart Disease, AEPC, EACTA, ASE and ECOSIAC. It also illustrates the strong link with the ESC WGs on Cardiovascular Magnetic Resonance, Nuclear Cardiology and CT, and Computers in Cardiology, giving a wider spectrum of multimodality non-invasive assessment of the various cardiovascular conditions.

SPECIAL FEATURES 2010



Imaging Campus

EUROECHO delegates are looking for more than simply viewing equipment on company stands.

You have specifically requested that we enable you to receive practical training in the latest echo techniques and/or the new clinical applications of existing ones. We have therefore decided to organise once again the successful educational

platform launched at EUROECHO 2008 known as the **Imaging Campus**.

The Imaging Campus is designed to offer delegates a unique opportunity for practical training and/or hands-on learning experience in key areas of noninvasive imaging with specific objectives and credit approval.

Each session will run four times daily on the same topic offering this new learning experience to a maximum number of delegates. The length of each session is approx 90 minutes.

Advanced Teaching Courses

The 7 Wednesday courses will this year cover:

- Aortic stenosis
- 3D echocardiography (organised with ASE)
- Congenital heart disease (organised with AEPC)
- Transesophageal echocardiography (organised with EACTA)
- Cardiac mechanics and deformation imaging
- Contrast echocardiography
- Left ventricular diastolic function (organised with ASE)

Educational Tracks

The symposia and DICE sessions will be organised into clearly identified tracks in order to avoid overlap among sessions dealing with the same topic, thereby facilitating delegate attendance.

CME ACCREDITATION



EUROECHO 2010 is under review for accreditation by the European Board for Accreditation in Cardiology (EBAC). The accreditation results will be announced on our

Web Site: www.esccardio.org/euroecho

CONTACTS

Venue

Bella Center
Center Boulevard 5
2300 - Copenhagen S, Denmark
Web Site: www.bellacenter.dk



The building is fully accessible to disabled people

Secretariat

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DON'T MISS

Opening Ceremony

The opening ceremony will take place on **Wednesday 8 December at 16:15 in Room ESBJERG**, featuring the Edler Lecture and the Award Ceremony. It will be followed by a cocktail reception in the Exhibition Area.

Teaching Course - Wednesday 8 December

These courses are aimed at all persons wishing to enhance their capabilities and visual experience in echocardiography and cover basic and typical clinical problems. Seven topics are proposed this year: Aortic valve stenosis - The clinical benefit of the third dimension - Deformation Imaging - Transesophageal Echocardiography - How to assess the adolescent and adult with congenital heart disease - Contrast Echocardiography - Diastole

The courses feature several interactive case study sessions and lectures oriented towards illustrative cases so as to ensure as much practical relevance and how-to education as possible

Teaching Course - Thursday 9 & Friday 10 December

These sessions will address CORE topics from basic to a more advanced approach.

Digital Interactive Clinical Echocardiography (DICE)

A complete programme of Digital Interactive Clinical Echocardiography sessions is organised by the working groups from several national societies on Echocardiography and ESC specialities working groups. These sessions are not to be missed! Ideal opportunity to interact on your topic of interest - audience participation and voting contributes to the success of the sessions.

Best from outside Europe

The Best from outside Europe session, starting with the traditional EUROECHO Lecture, will take place on **Thursday 9 December 2010 from 14:00 to 15:30 in room ESBJERG**.

Focus on Clinical Applications & Case Reviews

Clinical pathways sessions will address the recommendations / updates from the European Association of Echocardiography and present actual cases to illustrate these recommendations.

Abstract Sessions

EUROECHO 2010 invites all submitters to send in their original scientific contributions. We are grateful for the input on research these abstracts bring to the programme.

Selected Abstracts can be presented in three different formats:

- **Poster session:** a visual display of the research, the poster area is centrally located to ensure attendees can visit the area and have an opportunity (around session break) to meet the authors
- **Moderated Poster session:** a visual display of the research - during the coffee break, a session is organised to give the author the opportunity to present the findings in front of an appreciative audience and moderators - experts in the topic - animating the session.
- **Oral Abstract session:** *Thursday 9 & Friday 10 Decembre 2010 in room KOLDING*
Oral presentation, each oral abstract session is based on specific related topics.
Chaired by experts in these topics, the session will conclude with a review of the findings by one of the chairpersons. A great opportunity to hear about the latest research, clinical findings, cases and experiences from your peers. Every day in Room KOLDING.

Young Investigators Award Session

The best abstracts from junior investigators will be selected for presentation in Copenhagen, as part of the Young Investigators Award session. **Thursday 9 December 2010 from 12:45 to 13:45 in room RANDERS**.

A panel of experts will judge the competition and the first place winner will be invited to the next annual meeting of the American Society of Echocardiography (ASE 2011) to present his/her work.

EUROECHO 2010 Highlight Session

The audience enjoyed the EUROECHO 2009 Highlight Session - so we will also bring you these expert reviews on various topics to conclude the congress in 2010.

Wednesday 11 December from 11:00 to 12:30 in Room COPENHAGEN.

Looking for a specific area of interest?

When browsing through the programme, you can easily identify sessions on:

- Heart valve
- Multimodality imaging
- Cardiomyopathies
- Congenital heart disease
- Left ventricular function

	<p>Course Aortic valve stenosis Organised with the Scandinavian working group on Echocardiography</p>	<p>Course Diastole</p>	<p>Course The clinical benefit of the third dimension Organised with the American Society of Echocardiography (ASE)</p>	<p>Course Deformation Imaging</p>	<p>Course Transesophageal echocardiography Organised with the European Association of Cardiothoracic Anesthesiologists (EACTA)</p>	<p>Course How to assess the adolescent and adult with congenital heart disease Organised with the working group on Grown-up Congenital Heart disease (GUCH) and the European Association of Paediatric Cardiologists (EAPC)</p>	<p>Course Contrast Echocardiography</p>
	<p>COPENHAGEN</p>	<p>AARHUS</p>	<p>ODENSE</p>	<p>AALBORG</p>	<p>ESBJERG</p>	<p>RANDERS</p>	<p>KOLDING</p>
09:00	<p>Diagnosis and assessment</p> <ul style="list-style-type: none"> Aortic stenosis: a valvular or vascular disease? Traditional Doppler and beyond. Pressure recovery and valvulo-arterial impedance. How to assess ventricular function. Ergometer and Dobutamin stress echo in aortic stenosis. Indications and interpretations. The asymptomatic patient: what did we learn from SEAS? 	<p>What is diastole and how to assess it?</p> <ul style="list-style-type: none"> What is diastole? Physiology insights. Mitral inflow. Pulmonary vein flow. Tissue Doppler velocities. Strain/untwisting. 	<p>How and why to assess cardiac chambers</p> <ul style="list-style-type: none"> Left ventricular geometry and function. Right ventricular geometry and function. Stress echocardiography. Left atrium and atrial appendage. 	<p>Strain & strain rate - Things you always wanted to know ...</p> <ul style="list-style-type: none"> How to describe function? From fibre function to deformation / -rate. How to measure deformation? Comparing Doppler- and 2D Strain. How to interpret findings? Normal and pathologic patterns. Does it really work? Cases live from the workstation. 	<p>Course on Transesophageal Echocardiography</p>	<p>Everything you wanted to know about shunts but were frightened to ask</p> <ul style="list-style-type: none"> Shunts causing left heart dilatation. Shunts causing right heart dilatation. Spectrum of right to left shunting. Extra cardiac shunts: clinical presentation and assessment (venous/ ven of Galen/ pulmonary AVMs) 	<p>Course on Contrast Echo</p> <p>Basic Principles</p> <ul style="list-style-type: none"> Basic principles and instrumentation for contrast ultrasound. Tips and tricks for good LVO. Tips and tricks for assessing myocardial opacification. Safety and regulatory issues.
10:30							
10:30 - 11:00	<p>Visit the exhibition hall</p>						
11:00	<p>Monitoring therapeutic options and the post-op patient</p> <ul style="list-style-type: none"> How to monitor the asymptomatic patient with severe aortic stenosis. Aortic stenosis and the fear of after load reduction - ACEI and ARB. How should the valve be replaced? Post-op I: patient/prosthesis mismatch. How to evaluate and when to act. Post-op II: dysfunction of aortic valve prosthesis. 	<p>Recommendations for special patient populations</p> <ul style="list-style-type: none"> The patient with reduced ejection fraction. The patient with normal ejection fraction. The patient with atrial fibrillation. Grading LV diastolic dysfunction. 	<p>3D assessment of heart valves</p> <ul style="list-style-type: none"> Mitral valve and mitral annulus. Aortic valve and aortic root. Right-sided valves. Quantitative assessment of regurgitation. 	<p>Strain & strain rate in everyday practice ...</p> <ul style="list-style-type: none"> Hypokinesia and post systolic shortening: the art to diagnose ischemic substrates. Load and function I: evaluating valve lesions. Load and function II: the peculiarities of the right ventricle. Does it really work? Cases live from the workstation. 	<p>Course on Transesophageal Echocardiography</p>	<p>The operated adult congenital heart patient</p> <ul style="list-style-type: none"> Tetralogy of Fallot. Atrioventricular septal defect. Fontan circulation. Coarctation of the aorta. 	<p>Course on Contrast Echo</p> <p>Current applications</p> <ul style="list-style-type: none"> LV Opacification: quality standards. Body imaging. Perfusion stress (2D/3D). Viability measurements: the gold standards ?
12:30							
12:45 - 13:45	<p>Visit the exhibition hall</p>						
14:00	<p>Clinical decision making: controversies</p> <ul style="list-style-type: none"> The asymptomatic patient with aortic stenosis and a valve area of 0.6 cm². PRO: operate now why wait? CON: watchful waiting is enough. The symptomatic patient with aortic stenosis and a valve area of 1.1 cm². How much information do I need to decide whether or not to operate? PRO: nothing. CON: everything I can get. Summary by the chairman. 	<p>Challenges in diastology case based session</p> <ul style="list-style-type: none"> The patient with hypertrophic cardiomyopathy. The patient with valvular heart disease. The patient with coronary artery disease. The patient with pericardial constriction. Diastolic stress testing. 	<p>Future developments</p> <ul style="list-style-type: none"> 3D strain. 3D echo-contrast to assess myocardial perfusion. 3D echocardiographic imaging and modelling: towards the patientspecific virtual mitral valve. My personal visualisation cave: 3D chocardiography at my desk. 	<p>Strain & strain rate under development</p> <ul style="list-style-type: none"> Flash, rocking on others: added value in DCM and CRT. 2D tracking derived parameters: a beautiful new world? 3D deformation: added clinical value? Wall stress and contractility: the next challenge. 	<p>Course on Transesophageal Echocardiography</p>	<p>Transposition of the great arteries</p> <ul style="list-style-type: none"> Preoperative assessment/diagnostics. Follow-up following the arterial switch. Follow-up following atrial redirection (Mustard/Senning). Follow after other surgeries – Rastelli-type. 	<p>Course on Contrast Echo</p> <p>Featured Research</p> <ul style="list-style-type: none"> Stem cells. Imaging the vasa-vasorum. Ultrasound assisted thrombolysis. Therapeutic applications and summary.
15:30							

	COPENHAGEN	AARHUS	ODENSE	AALBORG	ESBJERG	RANDERS	KOLDING	POSTER AREA
	MAIN SESSIONS Aorta and vascular diseases	TEACHING COURSE	SYMPOSIA	SYMPOSIA	SYMPOSIA	DICE SESSION	ABSTRACT	
08:30	<p>Understanding the mechanisms underlying aorta dilatation</p> <ul style="list-style-type: none"> How to measure the aortic diameters and their reference values in multimodality imaging era. Aortic wall and flow properties: what do we want to quantify and how do we approach it? Molecular genetics and biology of aortopathy in bicuspid aortic disease. How flow-based measurements can be used as clinical predictors of complications. 	<p>Core Basics in imaging</p> <ul style="list-style-type: none"> Physics and instruments. Image optimization. Storage, communication and compatibility. Quality assessment. 	<p>The right ventricle</p> <ul style="list-style-type: none"> From anatomy and function evaluation to prognosis. Modern echo assessment of RV function. Multimodality imaging for RV function assessment. Response of the right ventricle to surgical and catheter intervention in congenital heart diseases. 	<p>Intracardiac flow field and flow dynamics</p> <ul style="list-style-type: none"> Ultrasonic visualization of intracardiac flow field and fluid dynamics quantification. Physiopathological insights from analysis of vortex flow in the left ventricle. A novel method of dynamo flow analysis to define diastolic function. Vector imaging: a new way to look intracardiac pressures. 	<p>How to select and assess patients for aortic valve reconstruction</p> <ul style="list-style-type: none"> Aortic valve complex functional anatomy. Segmental analysis of the aortic valve by echo. Operative techniques for aortic valve reconstruction. Long term follow-up of aortic valve repair. 	<p>Digital Interactive Clinical Echocardiography Organised by the SCANDINAVIAN Working Group on Echocardiography</p>	ORAL ABSTRACT SESSION	P O S T E R
10:00								
Coffee Break - Moderated Posters - Posters - Exhibition								
11:00	<p>Acute aortic syndromes</p> <ul style="list-style-type: none"> Role of imaging techniques in aortic dissection. Intramural hematoma and penetrating ulcer. Aortic trauma. Follow up of patients after an acute aortic event. 	<p>Core The echocardiographic examination</p> <ul style="list-style-type: none"> The complete echocardiographic study. Assessment of LV systolic function. Assessment of LV diastolic function. Assessment of left atrial size and function. 	<p>Doppler-Echo assessment of prosthetic heart valves <i>Joint Session with Canada</i></p> <ul style="list-style-type: none"> Evaluation of prosthetic valve function: perspectives from the 2009 guidelines. High prosthetic gradient: is this prosthesis dysfunction or prosthesis-patient mismatch? Role of echo in diagnosis and management of prosthetic valve thrombosis. Role of echo in the diagnosis and management of prosthetic valve endocarditis. 	<p>Evaluation of the response to exercise in athletes</p> <ul style="list-style-type: none"> Left ventricular hypertrophy: when to get suspicious. Left Ventricular hypertrophy in elite athletes: adaptation or pathology? Right ventricular function-physiological response to exercise. Right ventricular response to endurance training: how big is too big? 	<p>Echo in resynchronization in 2010</p> <ul style="list-style-type: none"> Putting PROSPECT in the right perspective. Hopes and reality of new technologies: speckle tracking and 3D. Optimizing CRT in a daily clinical setting. Non responders in CRT: illustrative cases from clinical practice. 	<p>Congenital Heart Disease Session</p> <p>Digital Interactive Clinical Echocardiography Organised with the Working Group on Growth-up Congenital Heart disease (GUCh)</p>	ORAL ABSTRACT SESSION	S E S S I O N
12:30								
12:45 13:45			Satellite Symposia			YIA ABSTRACT SESSION	Satellite Symposia	

THURSDAY 9 DECEMBER 2010 - AFTERNOON

	COPENHAGEN	AARHUS	ODENSE	AALBORG	ESBJERG	RANDERS	KOLDING	POSTER AREA	
	MAIN SESSIONS Aorta and vascular diseases	TEACHING COURSE Core Right ventricular function and non invasive hemodynamic assessment of cardiac function <ul style="list-style-type: none"> Right ventricular function and right heart overload. Regional left ventricular systolic function at rest and during stress. Non invasive hemodynamics at rest. 	SYMPOSIA Angels and demons in the cardiac imaging lab <ul style="list-style-type: none"> MRI: paramagnetic contrast side effects. Contrast echo: really safe after all? CT and contrast induced nephropathy. The radiation issue: image gently in cardiology. 	SYMPOSIA Heart failure with normal ejection fraction: what is it all about? <ul style="list-style-type: none"> Left ventricular diastolic dysfunction is the main mechanism. Increased arterial stiffness and altered ventricular-arterial coupling play the central role. Impaired LV twist / untwist are essential. Impaired functional reserve during exercise is key. 	SYMPOSIA The best outside Europe Including the EUROECHO lecture 2010	DICE SESSION Digital Interactive Clinical Echocardiography Organised by ECOSIAC	ABSTRACT	P O S T E R	
14:00	Aortopathy in bicuspid aortic valve and Marfan diseases <ul style="list-style-type: none"> Epidemiology of bicuspid aortic valve disease and the risk of sudden death. Diagnostic imaging of aorta bicuspid aortic valve and Marfan's disease. Timing of surgery for aortopathy in bicuspid and Marfan's diseases. Which imaging modality should we use to follow patients after aortic surgery? 	Core Valve disease I <ul style="list-style-type: none"> Aortic stenosis. Aortic regurgitation and the disease of the aorta. Mitral stenosis and suitability for valvotomy. Mitral regurgitation: organic and functional. 	Cancer and the heart <ul style="list-style-type: none"> Imaging cardiac tumors: which imaging modality/modalities should be used for which purpose? Cardiac complications of anthracyclines and new cancer treatments. Newer methods for detection of chemotherapy and radiotherapy induced cardiotoxicity. The hot question: when do I have to stop the chemotherapy in my patient? 	Advances in the assessment of left ventricular function <ul style="list-style-type: none"> Speckle tracking strain. Normal patterns of rotation and torsion and age-related changes. Ventriculo-arterial coupling. Clinical application: a case-based perspective. 	Debates in echocardiography <ul style="list-style-type: none"> Echo to guide PFO/ASD closure. Pro intracardiac echo Pro TEE echo Tissue Doppler imaging is clearly more useful than speckle tracking echocardiography for left ventricular function assessment. PRO CONTRA 	Digital Interactive Clinical Echocardiography Organised by the POLISH Working Group on Echocardiography: Unusual cases of aortic stenosis	ORAL ABSTRACT SESSION		S E S S I O N
15:30	Preclinical diagnosis and risk assessment of atherosclerosis <ul style="list-style-type: none"> What a cardiologist needs to know about carotid atherosclerosis Ultrasound as a gatekeeper of preclinical atherosclerosis Vaso-vasorum and plaque neovascularization Aortic valve sclerosis and cardiac calcification 	Core Valve disease I <ul style="list-style-type: none"> Aortic stenosis. Aortic regurgitation and the disease of the aorta. Mitral stenosis and suitability for valvotomy. Mitral regurgitation: organic and functional. 	Coffee Break - Moderated Posters - Posters - Exhibition						
15:30 - 16:30	Preclinical diagnosis and risk assessment of atherosclerosis <ul style="list-style-type: none"> What a cardiologist needs to know about carotid atherosclerosis Ultrasound as a gatekeeper of preclinical atherosclerosis Vaso-vasorum and plaque neovascularization Aortic valve sclerosis and cardiac calcification 	Core Valve disease I <ul style="list-style-type: none"> Aortic stenosis. Aortic regurgitation and the disease of the aorta. Mitral stenosis and suitability for valvotomy. Mitral regurgitation: organic and functional. 							
16:30	Preclinical diagnosis and risk assessment of atherosclerosis <ul style="list-style-type: none"> What a cardiologist needs to know about carotid atherosclerosis Ultrasound as a gatekeeper of preclinical atherosclerosis Vaso-vasorum and plaque neovascularization Aortic valve sclerosis and cardiac calcification 	Core Valve disease I <ul style="list-style-type: none"> Aortic stenosis. Aortic regurgitation and the disease of the aorta. Mitral stenosis and suitability for valvotomy. Mitral regurgitation: organic and functional. 							
18:00									
18:15 19:45	Satellite Symposia								

FRIDAY 10 DECEMBER 2010 - MORNING

	COPENHAGEN	AARHUS	ODENSE	AALBORG	ESBJERG	RANDERS	KOLDING	POSTER AREA	
	MAIN SESSIONS Echo for guiding percutaneous procedures in the cath lab	TEACHING COURSE	SYMPOSIUM	SYMPOSIUM	SYMPOSIUM	DICE SESSION	ABSTRACT		
08:30	Echo for selecting and monitoring procedures in congenital heart diseases <i>Joint session with the European Association of Paediatric Cardiologists (EAPC)</i> <ul style="list-style-type: none"> Atrial septal defect and patent foramen ovale. Interventricular septum. Aortic stenosis. Pulmonary stenosis. The problem of aortic coarctation. 	Core Valve disease II <ul style="list-style-type: none"> Tricuspid valve diseases. Prosthetic valves evaluation. Use of exercise echo to assess hemodynamic severity of valve disease Infective endocarditis. 	Echo for guiding percutaneous procedures in the cath Mitral regurgitation: State of the art <ul style="list-style-type: none"> Physiology of the mitral annulus: new 3D insights. Pathophysiology of ischemic MR by 3D echo. Assessing severity and decision making in functional mitral regurgitation. Intraoperative assessment of valve repair results. 	How to manage patients for ventricular assist device (VAD) implantation <ul style="list-style-type: none"> Echocardiographic assessment prior to VAD implantation. Normal findings in patients with LVAD. Echo assessment of patients with an ECMO device. How to diagnose and manage complications in patients with ventricular assist devices. 	Teleechocardiography: is it the future? <i>Joint session with the working group on computers in cardiology</i> <ul style="list-style-type: none"> The clinical need for tele-echocardiography. Principles of tele-echocardiography and image compression. A multimodality image environment. The next step: remote controlled robotic arm for real-time echocardiography. 	Digital Interactive Clinical Echocardiography Organised by the PORTUGUESE Working Group on Echocardiography	ORAL ABSTRACT SESSION	P	
10:00								O	
10:00 - 11:00	Coffee Break - Moderated Posters - Posters - Exhibition								S
11:00	Echo for selecting and monitoring procedures in mitral valve diseases <i>Joint session with the Working Group on Valvular Heart Diseases</i> <ul style="list-style-type: none"> Mitral balloon valvuloplasty. Percutaneous edge-to-edge mitral valve repair. Echo to help to position annuloplasty devices. Paraprosthetic leaks. 	Core Cardiomyopathies <ul style="list-style-type: none"> Hypertrophic cardiomyopathy and differential diagnosis. Dilated cardiomyopathy and differential diagnosis. Restrictive cardiomyopathy and differential diagnosis. Arrhythmic right ventricle dysplasia. 	Imaging coronary artery disease in 2010 <ul style="list-style-type: none"> Echocardiography. Nuclear. MRI. CT. 	Fibrosis imaging: the next frontier in imaging myocardial disease? <ul style="list-style-type: none"> What do we call fibrosis and how does MRI image it? Can deformation imaging detect myocardial fibrosis? Imaging techniques to detect fibrosis in cardiomyopathies. Fibrosis and left ventricular diastolic function. 	Coronary flow reserve in non atherosclerotic diseases <ul style="list-style-type: none"> Microvascular diseases. Heart valve diseases. Dilated and hypertrophic cardiomyopathies. Transplant patients. 	Digital Interactive Clinical Echocardiography Organised by the ROMANIAN Working Group on Echocardiography	ORAL ABSTRACT SESSION	E	
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12:45 13:45	Satellite Symposia								S
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FRIDAY 10 DECEMBER 2010 - AFTERNOON

	COPENHAGEN	AARHUS	ODENSE	AALBORG	ESBJERG	RANDERS	KOLDING	POSTER AREA	
	MAIN SESSIONS Echo for guiding percutaneous procedures in the cath lab	TEACHING COURSE	SYMPOSIA	SYMPOSIA	SYMPOSIA	DICE SESSION	ABSTRACT		
14:00	<p>Echo for selecting and monitoring procedures in aortic valve diseases <i>Joint session with the working group on Valvular Heart Diseases</i></p> <ul style="list-style-type: none"> Trans thoracic and transesophageal echo before aortic valve implantation. The role of multimodality cardiac imaging: luxury or necessary? 2D and 3D transesophageal echo during implantation. Paraprosthetic leaks. 	<p>Core Congenital heart disease</p> <ul style="list-style-type: none"> Basics of adult congenital heart disease assessment. Cyanotic diseases. Non cyanotic diseases. Intracardiac shunts. 	<p>Tako-subo cardiomyopathy</p> <ul style="list-style-type: none"> Morphological and functional assessment. Coronary flow velocity pattern and coronary flow reserve. Can clinical and echocardiographic be enough to diagnose the tako-subo syndrome? Which is the value of cardiac magnetic resonance in the diagnostic work-up? 	<p>Atrial function and atrial fibrillation</p> <ul style="list-style-type: none"> Atrial volume: how to measure and prognostic implications. Left atrium contribution to left ventricle filling Atrial fibrillation: how to assess tromboembolism risk. Atrial fibrillation: deformation images before and after cardioversion. 	<p>Clinical pathways: difficult cases in stress echo</p> <ul style="list-style-type: none"> Conference: EAE recommendations in stress echo. Reading with the experts: challenging cases of stress echo: The patient dependent of RV pacing. Dobutamine viability testing. Coronary flow reserve. Evaluation of dyspnea: does it make any sense to perform diastolic stress echo? 	<p>Digital Interactive Clinical Echocardiography Organised by Working Groups on NORDIC COUNTRIES</p>	<p>ORAL ABSTRACT SESSION</p>	P	
15:30								O	
15:30 - 16:30	Coffee Break - Moderated Posters - Posters - Exhibition								S
16:30	<p>Advanced techniques in cath lab</p> <ul style="list-style-type: none"> Transluminal septal myocardial ablation. Left appendage closure. Imaging in electrophysiology lab. Echo for support of stenting procedures in aorta. 	<p>Advanced specialised techniques</p> <ul style="list-style-type: none"> Real time 3D echo implementation in clinical practice. Stress echo protocols and techniques. TDI and speckle tracking current applications. Contrast echo current applications. 	<p>Upcoming EAE recommendations</p> <ul style="list-style-type: none"> Echo in infective endocarditis. Valvular regurgitation. 3D echocardiography. Myocardial mechanics. 	<p>The patient with aortic valve stenosis and associated cardiac abnormalities</p> <ul style="list-style-type: none"> ... and coronary heart disease. Pulmonary hypertension and right ventricular dysfunction. ... and LV dysfunction. ... and mitral regurgitation. 	<p>Debates in diastology</p> <ul style="list-style-type: none"> Echo is the standard technique to evaluate diastolic left ventricular function: PRO CONTRA E/e' is an essential estimator of left ventricular filling pressures: PRO CONTRA 	<p>Digital Interactive Clinical Echocardiography Organised by the BULGARIAN Working Group on Echocardiography</p>	<p>ORAL ABSTRACT SESSION</p>	E	
18:00								S	
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COPENHAGEN		AARHUS		ODENSE		RANDERS		POSTER AREA	
MAIN SESSION		TEACHING COURSE		SYMPOSIUM		DICE SESSIONS			
08:30	<p>CLINICAL PATHWAYS</p> <p>The difficult patient with mitral regurgitation</p> <ul style="list-style-type: none"> • Conference: update of clinical imaging of mitral regurgitation in clinical practice. • Reading with the experts: challenging cases of mitral regurgitation: • The unquantifiable mitral regurgitation. • Ischemic MR: to operate or not operate . • Stress echo can be the best tool. • The poorly contracting LV with severe mitral regurgitation. 	<p>Source of emboli, systemic diseases, cardiac masses and aorta</p> <ul style="list-style-type: none"> • Source of embolism. • Echo in systemic diseases. • Cardiac masses: pitfalls and interpretation difficulties. • Assessment of aorta. 	<p>Advanced</p> <p>Source of emboli, systemic diseases, cardiac masses and aorta</p>	<p>Multimodality imaging in left ventricular dysfunction</p> <ul style="list-style-type: none"> • When is echocardiography enough? • When is nuclear imaging helpful? • When may CT scan be useful? • What does MRI add for clinicians? 	<p>Digital Interactive Clinical Echocardiography Organised by the BRITISH Working Group on Echocardiography:</p> <p>Echo in transcatheter aortic valve implant</p>			P	
10:00								O	
10:00 - 11:00	Coffee Break - Moderated Posters - Exhibition								S
11:00	<p>EUROECHO HIGHLIGHT SESSION</p>	<p>Advanced</p> <p>Echo in Emergencies</p> <ul style="list-style-type: none"> • Mechanical complications of acute myocardial infarction. • Acute aortic syndromes. • Pericardial effusion and tamponade. • Pulmonary embolism. 		<p>Echocardiographic assessment of cardiomyopathies</p> <ul style="list-style-type: none"> • Hypertrophic cardiomyopathy: from genetics to echocardiography. • Ischemic and non-ischemic cardiomyopathy. • Non-compacted myocardium: diagnostic criteria and management. • Implications of the new diagnostic criteria for ARVC. 	<p>Digital Interactive Clinical Echocardiography Organised by the MEXICAN Working Group on Echocardiography</p>			S	
12:30								S	

EAE ACTIVITIES

EAE/ESC stand

Find out about EAE activities, including membership, accreditation activities, educational courses, research grants, the European Journal of Echocardiography and EUROECHO 2011 (7-10 December 2011, Budapest - Hungary).
Get information on all ESC scientific services and products such as journals, educational activities and the ESC Congress to be held in Paris in 2011.
Come and visit us on the EAE/ESC stand in the Exhibition Area.

EAE Members Lounge

The EAE members lounge is an exclusive area providing all EAE members 2010 with a pleasant and cosy environment to meet with colleagues, read emails or simply enjoy a cup of coffee.

EAE Individual Accreditation Exams

Take advantage of your presence in Copenhagen to sit one of the three accreditation exams organised by EAE:

- Accreditation in Adult Transthoracic Echocardiography (TTE)
Thursday 9 December 2010 from 13:00 to 18:00
- Accreditation in Adult Transesophageal Echocardiography (TEE)
Friday 10 December 2010 from 08:00 to 13:00
- Accreditation in Congenital Heart Disease Echocardiography (CHD)
Friday 10 December 2010 from 15:00 to 20:00

Registration conditions and the enrolment form can be found on the EAE Web Site: www.escardio.org/EAE

EAE General Assembly

Don't miss the EAE General Assembly where you can discover the new EAE Board 2010-2012 and obtain the report on the EAE activities.

All participants are encouraged to attend.

REGISTRATION

Priority to Membership!

New this year:

- One single fee for EAE Members 2010, automatically including Membership for 2011.
- Package fees available for nurses, sonographers and delegates under 30 years of age.

Registration Fees

The following registration fees entitle delegates to:

- Entry to the Opening Ceremony and the Opening Cocktail on Wednesday 8 December 2010
- Entry to all scientific sessions and the exhibition
- A copy of the Final Programme
- Coffee breaks from Thursday 9 to Saturday 11 December 2010

	PACKAGE FEES* (including EAE Membership 2011)				STANDARD FEES		
	EAE Members 2010	Non member	Nurse / Sonographer**	Born after 01/01/1980**	Non member	Nurse / Sonographer**	Born after 01/01/1980**
Early Until 30/09/2010	€530	€600	€370	€370	€575	€350	€350
Late Until 31/10/2010	€670	€740	€425	€425	€715	€400	€400
On-site From 07/12/2010	€735	€805	€485	€485	€780	€460	€460

***Package Fees:** include registration to the congress and EAE membership for 2011 at a reduced price. (including EAE membership benefits for 2011). For more details see registration conditions.

****Reduced Fees:** A copy of ID card or passport for the Born After Fee and a Statement from the head of your department for the Nurse/Sonographer must be provided.

Online registration via "My ESC" is available on the ESC Web Site: www.escardio.org/euroecho

For further information, please contact the ESC Registration Department: EERegistration@escardio.org

HOTEL ACCOMMODATION

The ESC has reserved a limited number of rooms in Copenhagen in various price category hotels.

Rates in Danish Crown per night, per room including Breakfast and Tax (25%).

Rooms are available from 7-11 December 2010. All other nights are upon request and subject to availability.

All above hotels have access to the congress centre by local transport. No shuttles or transfers are provided by the ESC.

Online registration via "My ESC" is available on the ESC Web Site: www.escardio.org/euroecho

For further information, please contact the ESC Hotel Department: EEhotels@escardio.org

HOTEL	Single Rate DKK	Double rate DKK
Crowne Plaza Tower 4*	1 612,00	1 612,00
Copenhagen Admiral hotel 4*	1920,00	2 050,00
71 Nyhavn Hotel 4*	1 250,00	1 400,00
Grand Hotel Copenhagen 4*	1 195,00	1 345,00
Phoenix Hotel Copenhagen 4*	1 150,00	1 300,00
Clarion hotel Neptun 4*	1 095,00	1 295,00
Copenhagen Strand Hotel 3*	990,00	1 100,00
Opera Hotel 3*	940,00	1 035,00
Cabinn Metro Hotel 2*	805,00	865,00

CONGRESS TIMETABLE

	Tuesday 7 December	Wednesday 8 December	Thursday 9 December	Friday 10 December	Saturday 11 December
07:30					
08:00					
08:30					
09:00					
09:30		SESSIONS	SESSIONS	SESSIONS	SESSIONS
10:00			IMAGING CAMPUS	IMAGING CAMPUS	
10:30			MODERATED POSTERS	MODERATED POSTERS	
11:00			SESSIONS	SESSIONS	SESSIONS
11:30		SESSIONS	IMAGING CAMPUS	IMAGING CAMPUS	
12:00					
12:30					
13:00		SATELLITE SYMPOSIA	SATELLITE SYMPOSIA	SATELLITE SYMPOSIA	
13:30			YIA		
14:00					
14:30		SESSIONS	SESSIONS	SESSIONS	
15:00			IMAGING CAMPUS	IMAGING CAMPUS	
15:30					
16:00			MODERATED POSTERS	MODERATED POSTERS	
16:30					
17:00		OPENING CEREMONY	SESSIONS	SESSIONS	
17:30		OPENING COCKTAIL	IMAGING CAMPUS	IMAGING CAMPUS	
18:00					
18:30					
19:00			SATELLITE SYMPOSIA		
19:30					
20:00					

UPDATE & WIN

BE A WINNER

By completing your "My ESC" profile, you will be automatically entered into a prize draw

20 Lucky Winners will each win

■ an iPod touch

(loaded with all available e-versions of Abridged ESC Practice Guidelines)



Photo courtesy of Apple

PLUS



■ a Compendium of Abridged ESC Guidelines (New Edition)

BE THE FIRST TO KNOW

"Less is More"

By sharing your contact information and fields of interest with us, you will receive only the very latest & most relevant information to you

Receive your journal on time*



BE SEEN TO ACT RESPONSIBLY

Identify yourself within your scientific community & enhance your active contribution to the Society

Provide your electronic contact details to reduce unnecessary printing & mailing.

Resources that can be better used on our **life-saving, scientific & educational initiatives**

BE ENVIRONMENTALLY FRIENDLY

By providing us with your contact details & subscribing to electronic communications you will help us **save paper, reduce unnecessary mailings & reduce waste**

The leading international conference on echocardiography goes to the **greenest major city in Europe, Copenhagen**



Visit www.escardio.org/raisemyprofile to enter your details

Deadline: last day of the ESC Congress 2010 (1 September 2010)

Join us also at the ESC Congress 2010 in the European Green Capital, Stockholm (28 August - 1 September)

**Together we are making a difference...
Thank you for your cooperation!**



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