26th Annual

State-of-the-Art ECHOCARDIOGRAPHY







February 10 - 13, 2013 InterContinental Montelucia

InterContinental Montelucia Scottsdale, AZ

Learning Lab

February 9 – 10, 2013

Co-Directors:

Roberto M. Lang, MD, FASE Bijoy K. Khandheria, MD, FASE Vera H. Rigolin, MD, FASE Matt Umland, RDCS, FASE

New Course Highlights

- Expanded learning laboratories making the diagnosis. The right and the wrong commonly encountered errors in measurements.
- Special session on case based learning
- Incorporating strain, 3D into daily practice of echocardiography
- Focus on structural heart disease
- Play to Learn: New game with audience participation. Cases, cases, and more cases





Program Information

Program Overview

State-of-the-Art Echocardiography is a premier educational venue for cardiovascular ultrasound in clinical practice. This superbly rated meeting is filled to capacity year after year. Although the course is refocused yearly to ensure the most up to date information, topics will include quantitative echocardiography, valvular and ischemic heart disease, stress/contrast echocardiography, advances in imaging in coronary disease, state-of-the-art and clinical applications of transesophageal echocardiography (TEE), diastology, physiological disease management and myopericardial diseases. Special workshops are available on focused topics of interest to general as well as specialty participants.

Participants should have a practical knowledge of echocardiography to benefit most fully from this program. The setting is ideal for participants to bring their families and take advantage of some vacation time.

The American Society of Echocardiography is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Learning Lab

A learning lab will be offered on Saturday, February 9th and Sunday, February 10th. This workshop requires separate registration and is a part of the total hours of educational content offered by the course.

This intimate workshop features easy access to faculty members. Individual computer workstations are provided to teach each participant how to quantitate fundamental aspects of clinical echocardiography. The small group environment allows the opportunity for virtually private instruction from top practitioners in the field.

Who Should Attend

The program is designed for adult and pediatric cardiologists, cardiovascular surgeons, anesthesiologists, radiologists, nurses, sonographers and fellows in training. Participants should have a practical knowledge of echocardiography.

Fee

Your registration will be confirmed by email only. Registration fee includes continental breakfasts, breaks, lunches, reception, and a memory stick containing course materials.

One of the many benefits of being an American Society of Echocardiography (ASE) member is that ASE members are eligible to receive a reduced registration fee for State-of-the-Art Echocardiography as well as for all ASE educational courses. If you are not currently a member and wish to become one, visit www.asecho.org.

Cancellations

If you cancel your participation in this course, your registration fee, less a \$100 administrative fee, will be refunded when written notification is received before Thursday, January 10, 2013. No refunds will be made after Thursday, January 10, 2013. No refund will be given for no-shows.

In the unlikely event the meeting/course is cancelled, ASE is responsible only for refund of the registration fee (minus any processing fee) and not for transportation, hotel accommodations or any miscellaneous expenses incurred by the participant.

Lodging

To secure your room at the InterContinental Montelucia, please call 888-627-3010 and state that you will be attending the **State-of-the-Art Echocardiography** program. The room rate is \$265 single/double a night. A deposit of one night room plus tax will be held at the time of reservation. Deposit will be forfeited for any cancellations occurring 21 days or less prior to Wednesday, February 6, 2013. Check-in time is 4:00 p.m. and check-out time is noon.

The room block is scheduled to be held until Sunday, January 6, 2013 but may be sold out before this date. Therefore, we advise you to register for the program and reserve your lodging as soon as possible. A daily housekeeping fee of \$3.00 per day will automatically be applied. When you make your reservation, please be sure to ask about any additional fees, early departure fees, or cancellation penalties. Note, there is no resort fee.

Transportation

The Phoenix Sky Harbor International Airport is located 8 miles from the Scottsdale area, where the InterContinental Montelucia is located. Transportation discounts on shuttle service from the airport and car rental will be available at www.asecho.org/StateoftheArt.

For the full State-of-the-Art Echocardiography program, visit www.asecho.org/StateoftheArt

Learning Lab SUNDAY, FEBRUARY 10, 2013 SATURDAY, FEBRUARY 9, 2013 Continuation of Learning Lab: A Road to Comprehensive **Quantification Using ASE Guidelines** A Road to Comprehensive Quantification Using ASE **Guidelines Continental Breakfast** 7:30 am 7:00 am -**Continental Breakfast** Alhambra Foyer 8:00 am 8:00 am **Right Ventricle: Size and Function** 8:00 am Welcome and Introduction to the Classroom B. Khandheria, M. Umland R. Lang, B. Khandheria 8:30 am **Myocardial Mechanics: Beyond 101** 8:15 am **Introduction to Software and Computers** P. Sengupta, C. Kramer M. Umland Prosthetic Heart Valves: Gradient, Valve Area 9:00 am B. Khandheria, M. Umland Basic Measurements: LV, LA, RV, Biplane Simpson 8:30 am 3D LVEF 9:30 am **Pulmonary Hypertension: Comprehensive** R. Lang, G. Lammertin **Evaluation** R. Lang, K. Collins Basic Doppler: VTI, SV, CO, CI, RVSP 9:00 am B. Khandheria, M. Umland **Time to Practice Again** 10:00 am Aortic Valve: Vena Contracta, Regurgitant Orifice 9:30 am All Faculty R. Lang, K. Collins 11:00 am **Question and Answer** 10:00 am **Break** All Faculty 10:30 am Aortic Valve: Mean Gradient, Valve Area, TAVR **Main Conference** Measurements **SUNDAY, FEBRUARY 10, 2013** B. Khandheria, C. Kramer Registration 7:00 am 11:00 am Shop, Oops, Trace Till You Drop Alhambra Foyer (Several cases will be available to practice 8:45 am Welcome and Introduction tracing/measuring) B. Khandheria, R. Lang, V. Rigolin Mitral Stenosis: 2D, Doppler, 3D 11:45 am 9:00 am What? You Are Not a Member of ASE? What Does it R. Lang, G. Lammertin do For Me? Why Should I Join? **Question and Answer** 12:15 pm P. Pellikka 12:30 pm Lunch Start to Finish: Taking Congenital Heart Disease from Beginning to End-A Case-Based Seminar 1:30 pm Mitral Regurgitation: Vena Contracta, ERO B. Khandheria, M. Umland R. Humes, presiding Location: Alhambra Ballroom 2:00 pm Diastolic Function 101: Commonly Used **Parameters** PART I B. Khandheria, M. Umland 9:15 am **Adults with Congenital Heart Disease** 2:30 pm **Challenges in Diastolic Function** J. Kovach B Khandheria, C. Kramer 9:30 am ASD, VSD 3:00 pm **Myocardial Mechanics 101** R. Humes P. Sengupta, C. Kramer 10:00 am **AV Canal** Mystery Cases, 3D cases, Challenging Cases R. Humes 3:45 pm R. Lang, B. Khandheria, M. Umland, K. Collins Coarctation 10:15 am **Refreshment Break** J. Kovach 4:15 pm **Practice, Practice and More Practice** 10:30 am Single Ventricle complexes 4:30 pm I. Kovach M. Umland, C. Kramer, G. Lammertin, K. Collins 11:00 am Refreshment Break and Visit Exhibits 5:15 pm **Questions and Answers** Valencia Ballroom All Faculty PART II 5:30 pm Adjourn **Tetralogy of Fallot** 11:15 am

P. Gupta

P. Gupta

Transposition Complexes

11:35 am

11:55 am	Special Circumstances	9:15 am	TAVR: State-of-the-Art 2013		
	A. Eisenmenger's Syndrome		B. Khandheria		
	B. The Pregnant Patient J. Kovach	9:40 am	Aortic Stenosis: Cases		
12:30 pm	Lunch and Visit Exhibits Valencia Ballroom		Low gradient, normal function AS – R. Lang Subvalvular stenosis, supra valvular stenosis –		
CODONAL			M. Saric What is the source of error in this calculation? – S. Goldstein Oops, what is wrong here? – M. Umland		
V. Rigolin, Presiding					
2:00 pm	Stress Echocardiography: The Right Way, the Wrong Way; 101 and Beyond V. Rigolin		Low output, low gradient AS – <i>I. Kronzon</i> Complication during TAVR – <i>P. Sengupta, I.Kronzon,</i> <i>S. Goldstein, B. Khandheria.</i>		
2:25 pm	Contrast Enhanced Stress Echocardiogram: Those Little Details – Technique, Machine Settings and Reimbursement. How Can You Be Denied Reimbursement? M. Umland	10:40 am	Refreshment Break and Visit Exhibits Valencia Ballroom		
		STRUCTURAL HEART DISEASE			
		M. Saric, presiding			
2:50 pm	Case Studies in Stress Echocardiography. Single vessel disease – <i>R.Lang</i> Subtle, but sure – single vessel disease – <i>H. Chaliki</i> Multi vessel disease – <i>V. Rigolin</i>	11:10 am	Aortic Regurgitation: Comprehensive Evaluation Using 2D and 3D Echocardiography; ERO, Vena Contracta and Visual Evaluation R. Lang		
F					
	False positive – <i>C. Kramer</i>	11:35 am	Pathologies of the Aortic Root, Aorta Causing		
	Hypertensive response – P. Sengupta	11.55 am	Aortic Regurgitation. Illustrative Examples in 2D		
	False negative – M. Umland Contract on home add asyed the day. D. Kraell.		and 3D Imaging		
	Contrast enhanced saved the day – <i>P. Knoll</i> Contrast enhanced – BOO! – <i>M. Saric</i>		H. Chaliki		
3:30 pm	Acute Coronary Syndromes, Complications of	11:50 am	Morphologic Abnormalities of the Aortic Valve:		
3.50 pm	Myocardial Infarction: Illustrative Cases		Illustrative Examples Quadricuspid valve - C. Kramer		
	What ails the apex - B. Khandheria		Bicuspid valve - P. Knoll		
	Right ventricle - S. Goldstein		Unicuspid valve - G. Lammertin		
	Lumps, bumps and OMG! - B. Khandheria Mitral valve - S. Goldstein	12:15 pm	Aortic Regurgitation: Natural History, Timing of		
	I followed the ACC/AHA guidelines for use of echo		Operation and What Drugs to use, If Any		
	in ACS and look what I got - M. Saric		S. Goldstein		
4:40 pm	Walks Like a Duck, Quacks Like a Duck, But is Not	12:40 pm	Question and Answer		
	a Duck: What is Not CAD?		All Faculty		
- 10	B. Khandheria, S. Goldstein, R. Lang, M. Saric	1:00 pm	Lunch and Visit Exhibits		
5:10 pm	Question and Answer	CTDIICTII	Valencia Ballroom		
5:30 pm	Adjourn		IRAL HEART DISEASE a, presiding		
MONDAY,	FEBRUARY 11, 2013	2:15 pm	Morpho-anatomy of the Mitral Valve		
7:00 am	Continental Breakfast and Visit Exhibits Valencia Ballroom	2:45 pm	R. Lang		
STRUCTU	STRUCTURAL HEART DISEASE		2D, 3D Evaluation of Mitral Regurgitation. How to Quantitate?		
H. Chaliki	H. Chaliki, presiding		What Pathologies Cause MR? Pitfalls of ERO. Is Vena		
8:00 am	What is Structural Heart Disease? Why Bother? R. Lang		Contracta Adequate? M. Saric		
8:20 am	Aortic Stenosis: The Changing Spectrum	3:20 pm	Mitral Regurgitation and Ischemic Heart Disease: What Should an Echocardiographer Know? Are		
	of the Disease and the Essential Role of	-			
	Echocardiography B. Khandheria		Quantification Values the Same as in Organic Heart Disease?		
0.50			Quantification of regurgitation		
8:50 am	Aortic Stenosis: What Images Should a Sonographer Acquire Pre- and Post-TAVR C. Kramer		R. Lang		

3:45 pm	Natural History of Mitral Regurgitation: Timing of Operation. Too Early? Too Late?	AORTA AND ATRIAL SEPTUM			
		S. Goldstein, presiding			
4:10 pm	B. Khandheria Illustrative Cases of Mitral Valve Pathology Mitral clip and echocardiography - B. Khandheria Percutaneous mitral baloon valvuloplasty - I. Kronzon Mitral Stenosis: Pitfalls in calculation of severity - M. Saric Question and Answer Moderator: P. Sengupta B. Khandheria, S. Goldstein R. Lang, V. Rigolin, I. Kronzon	8:30 am	2D/3D Imaging of Aortic Aneurysm, Aortic Dissection, Aortic Transection H. Chaliki		
		8:55 am	My Patient Has Atherosclerosis of the Aorta: Should I Worry? I. Kronzon		
4:25 pm		9:20 am	I Found a PFO During a TEE. Implications, Closure? S. Goldstein		
		9:45 am	Rapid Fire Cases Penetrating ulcer – S. Goldstein		
4:30 pm	Break and Visit Exhibits <i>Valencia Ballroom</i>		Is it ASD or PFO? – <i>V. Rigolin</i> Amyloid heart – <i>M. Saric</i> Hemochromatosis – <i>H. Chaliki</i>		
STRUCTU	RAL HEART DISEASE		HIV and the heart – <i>P. Sengupta</i>		
H. Chaliki,	presiding	10: 20 am	Panel Discussion		
5:00 pm	Tricuspid Regurgitation: Comprehensive 2D/ Doppler Evaluation Using the ASE Guidelines I. Kronzon	10:30 am	Break and Visit Exhibits Valencia Ballroom		
5:25 pm	Evaluating the Patient with Prosthetic Valves: What do the ASE Guidelines Recommend?	INTERVE	STUDIES FROM THE OPERATING ROOM, RVENTIONAL LABORATORY ric, Presiding		
5:50 pm	B. Khandheria Case Studies Percutaneous repair of paravalvular leaks – I. Kronzon Endocarditis on native valve – R. Lang Endocarditis on prosthetic material – S. Goldstein What is wrong with this patient tricuspid valve entrapment? – P. Sengupta What drug did this patient take to make the tricuspid valve sad? – H. Chaliki Mitral intervalvular fibrosa from endocarditis – M. Saric	11:00 am	LA Appendage Occluders B. Khandheria		
		11:15 am	VSD Closure I. Kronzon		
		11:30 am	ASD, PFO Closure M. Saric		
		11:45 am	Mitral Valve Repair P. Sengupta		
		12:00 pm	Mystery case I. Kronzon		
6:25 pm	Adjourn	12:15 pm	Panel Discussion		
6:30 pm	Welcome Reception Valencia Ballroom	12:30 pm	Hypertrophic Cardiomyopathy: Morphologic Variants. Role of Myocardial Mechanics		
	FEBRUARY 12, 2013	1.00	S. Goldstein		
7:00 am	Continental Breakfast and Visit Exhibits Valencia Ballroom	1:00 pm	Lunch and Visit Exhibits Valencia Ballroom		
7:30 am	Early Bird Case Studies	1:30 pm	SPECIAL FEATURE: Game Show		
	P. Knoll, presiding 3 common errors in evaluating the LV systolic function – P. Knoll 3 common errors in evaluation of the LA – C. Kramer 3 challenging hemodynamic cases – I. Kronzon	HEART FAILURE: CARDIA RESYCHRONIZATION AND LVAD H. Chaliki, presiding			
		2:30 pm	Essential Role of Echocardiography in Heart Failure with Reduced Function R. Lang		
		2:55 pm	CRT 2013: Optimization, Dyssynchrony, Myocardial Mechanic. Sonographer and Physician M. Umland, P. Sengupta		

WEDNESDAY, FEBRUARY 13, 2013

7:30 am Continental Breakfast and Visit Exhibits
Valencia Ballroom

MYOCARDIAL AND PERICARDIAL DISEASE

M. Saric, presiding

Constrictive Pericarditis: How to Diagnose? Pitfalls in 8:00 am Diagnosis P. Sengupta 8:20 am Echo Guided Pericardiocentesis: Why? How To? S. Goldstein 8:40 am Isolated Non-Compaction of the Left Ventricle: 2013 B. Khandheria 9:00 am Athlete's Heart: Echocardiographic Considerations R. Lang Cardio Oncology: Why? Who? How? 9:20 am B. Khandheria **Panel Discussion** 9:40 am 10:00 am Refreshment Break and Visit Exhibits Valencia Ballroom

Heart Failure with Preserved EF and Pulmonary Hypertension

H. Chaliki, presiding

10:30 am

11:45 am

Adjourn

Epidemiology, Pathophysiology and Diagnosis M. Saric

10:50 am Integrated Imaging in Pulmonary Hypertension V. Rigolin

11:10 am Illustrative Cases
Pulmonary hypertension - M. Saric
Heart failure with preserved EF - P. Sengupta
Pulmonary embolism - V. Rigolin
What blood test identifies the cause - H. Chaliki
I am sparkling and I have elevated filling pressure
- M. Saric

Heart Failure with Preserved Systolic Function:

See you next year at the 27th Annual State-of-the-Art Echocardiography! February 9 – 12, 2014 Montelucia Resort and Spa Scottsdale, AZ





26th Annual State-of-the-Art Echocardiography REGISTRATION FORM

February 10 – 13, 2013 • InterContinental Montelucia, Scottsdale, AZ

Your State-of-the-Art Echo	ocardiography reg	istration fee incl	udes continental	breakfasts, breaks, lu	nches, and a w	elcome reception.
Name:						
First Na	ime		Middle Initial		Last N	lame
Credential: MD ASE Member Number: _	DO	PhD	RN	RCS	RDCS	Other
Institution:						
Email Address:						
(All	correspondence re	garding your regi	stration including	your confirmation wi	ll be sent to this	email address.)
Which is your preferred r	nailing address?	Work/Busin	ness	Home		
Street Address:				- 		
City:	State/	Province:	Zip/Postal	Code:	Cou	ıntry:
Telephone:			Fax:			
If you need disability	accommodation	ıs, please check	here and advise	us of vour needs at l	east two weeks	s before the program.
Special Needs: ASE encowill help ASE to better se	urages participat	ion by all indivi	duals. If you have	e a disability or other	r specific need	s, advance notification
Special Dietary Needs:	•	•				
Registration Fees:						
State-of-the-Art Ed	chocardiogra	aphy • Febra	uary 10 – 13,	2013		
ASE Physician Memb (\$725)	oer Ph	ysician on-Member (\$82		ASE Sonographer/A Health Member* (\$4		 Sonographer/Allied Heal Non-Member* (\$575)
*Registrants in the Allied Healt	h category include So	nographers, Nurses,	Physician Assistants	and Fellows in Training.		
One-day Rate (only one o	day can be select	ed)				
Sunday		onday		Tuesday		Wednesday
Learning Lab • Fell Attendees must register f More information on this ASE Member (\$325)	or this workshops workshop will b	in advance in o	•	ue to limited seating	available.	
Payment Informate Payment must accompany						
Check (payable to Ame		chocardiography i	in U.S. dollars drai	vn on a U.S. bank)		
Credit Card:	Visa	Master		American Express		
Cardholder's Name:						
Card Number:						

Register online and receive an immediate receipt! www.asecho.org/StateoftheArt

American Society of Echocardiography 2100 Gateway Centre Blvd., Suite 310, Morrisville, NC 27560 Telephone: (919) 861-5574, Fax: (919) 882-9900 Email: ase@asecho.org, Web site: www.asecho.org/StateoftheArt



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Learning Lab February 9 – 10, 2013

Register now at www.asecho.org/StateoftheArt