European Association of
Cardiothoracic Anaesthesiologists

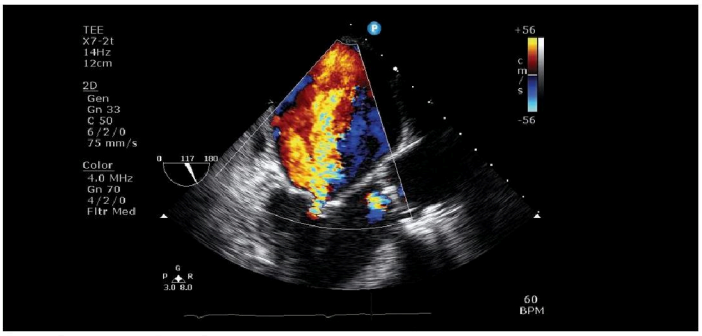
BASIC COURSE
ADVANCED COURSE
CERTIFICATION COURSE
HANDS-ON TRAINING

EACTA ECHO

WORLD FORUM
THE HAGUE, THE NETHERLANDS
SEPTEMBER 12–15, 2015

WWW.EACTA.ORG

New in 2015 !
Hands-on echo in Critical Care and Non-Cardiac Anaesthesia, Transthoracic Echocardiography, Lung Ultrasound and Vascular Access, 2 days of hands-on course,
1 expert instructor for max. 5 students



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Venue:

World Forum
Churchillplein 10
2517 JW The Hague
The Netherlands

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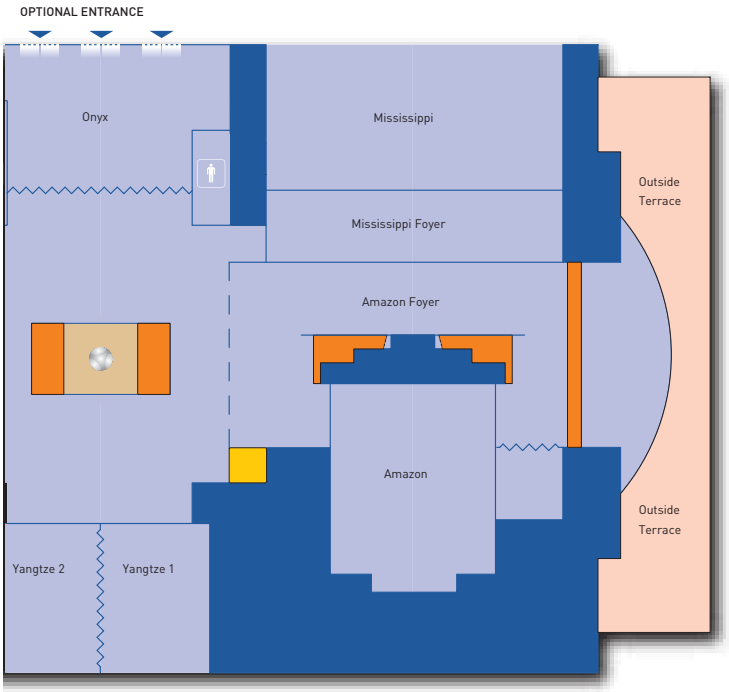
World Forum Floorplan

1 RIVERS



2 MOUNTAINS

Letter of Invitation

Dear colleagues,

On behalf of the European Association of Cardiothoracic Anaesthesiology (EACTA) it is a great pleasure to invite you to EACTA Echo 2015 which will take place from Saturday 12th to Tuesday 15th September 2015 in The Hague, The Netherlands.

The aim of the current program for EACTA Echo is to offer a platform where delegates can find knowledge suited to their needs in learning echocardiography. To this end, a basic, advanced and certification course will combine lectures, interactive case-discussions, workshops and quizzes structured to their level of experience. A new "hands-on" course "Echo in Anesthesia, Intensive Care and Emergency Medicine" (including vascular access and lung ultrasound) will be introduced, aiming for an audience of anesthesiologists, intensivists, and emergency physicians.

The ***Basic Course*** is aimed at beginners who have little or no experience in echocardiography. In order to practice the lecture-based information that refers mainly to transesophageal echo, each session is followed by a workshop. During these workshops participants will experience how to apply the knowledge "live" using echo machines, echo simulators and by interactive discussions.
A wet-lab with hands-on porcine heart dissection will facilitate a better understanding of the anatomy of the heart.

The ***Advanced Course*** is aimed at more experienced echocardiographers. Experts in the field will share their experience at a "state-of-the-art" level for current and new echo techniques and applications. This year's topics include 3D TEE and myocardial imaging, dilemmas in valve surgery, echo in transcatheter procedures, heart failure and ICU related problems. A 3D learning lab will challenge the participant to be actively involved. To conclude the course, a new session is introduced in which delegates are invited to present short cases (max. 10 minutes) from their own practice with a discussion guided by an expert panel. This is a unique opportunity to share your experience with other echo-interested colleagues.

The ***Certification Course*** is aimed at delegates who are preparing for the EACTA/EACVI TEE exam. The course has been updated to a new format. The topics will be presented in a condensed form and each session is followed by an echo quiz with video-based MCQ's. This will allow delegates to better judge their knowledge required for the exam.

A brand new ***Hands-on Course*** will be introduced aiming for anesthesiologists, intensivists, emergency physicians and others interested in echo as a point-of-care technique. To this end, the participant has to acquire the theoretical knowledge in advance according to the FATE (Focused Assessed Transthoracic Echo) e-learning program. The course will be organized at two different levels. The first level (part 1) is aiming at the beginner and covers the fundamentals of FATE and vascular access. The second level (part 2) is intended for those who have passed the first level or have experience similar to the first level and covers the application of FATE with Doppler, hemodynamics, major pathology and lung ultrasound.

The Hague oozes culture, history and excitement with the most historic sites per square meter in the Netherlands. The venue for the meeting is located within minutes from the beach and major boulevards, and has a large in-house hotel with several others nearby. There are many cultural attractions, restaurants and high quality shopping within easy reach from the venue. Visit The Hague monuments such as the Binnenhof (the Houses of Parliament), Noordeinde Palace, and the Peace Palace. Discover the largest painting in the Netherlands: Panorama Mesdag. Admire the exquisite works of Rembrandt, Vermeer and Mondriaan at the Mauritshuis and Gemeentemuseum. Enjoy a drink and meet colleagues and friends at the beach to finish off your day at the meeting.

We look forward to welcoming you to EACTA Echo 2015 in The Hague.

Joost van der Maaten and **Arno Nierich**, chairs local organizing committee

1

Basic Course Programme

EACTA Echo BASIC COURSE			
Day 1 – SEPTEMBER 12, 2015		**Room**	**Speaker**
08.00-08.15	Welcome and introduction	Everest 1 & 2	A. Nierich P. Wouters
IMAGING AND VIEWS		**Everest 1 & 2**	**Chair: H. Skinner**
08.15-08.45	Ultrasound basic physics		J. Erb
08.45-09.15	The basic TEE views		E. Korsten
09.15-09.45	The basic TTE views		E. Sloth
09.45-10.15	How to create the best image: optimization and knobology		H. Skinner
BREAK		**Amazon Foyer**	
WORKSHOPS			
10.45-12.15 (30 min - Rotation in each Workshop)	Workshop 1: TEE views	Kilimanjaro 1	J.S. Jainandunsing R. Bergman
	Workshop 2: Image optimization	Kilimanjaro 2	H. Skinner J. Erb
	Workshop 3: TTE views	Summit Foyer	E. Sloth E. Korsten
LUNCH		**Amazon Foyer**	
VENTRICULAR FUNCTION AND HEMODYNAMICS		**Everest 1 & 2**	**Chair: M. Seeberger**
13.15-13.45	The LV: wall motion and systolic function		M. Seeberger
13.45-14.15	Basic concept of Doppler measurements		J. Wink
14.15-14.45	Hemodynamics made easy		S. Treskatsch
BREAK		**Amazon Foyer**	
WORKSHOPS			
15.15-16.45 (30 min - Rotation in each Workshop)	Workshop 1: Left ventricle	Kilimanjaro 1	M. Seeberger G. Culas
	Workshop 2: Doppler measurement	Kilimanjaro 2	J. Wink H. J. Friedericy
	Workshop 3: Essential hemodynamics	Summit Foyer	S. Treskatsch I. Michaux
PORCINE HEART WET-LAB		**Everest 1 & 2**	**Chair: B. Woltersom**
16.45-18.15	Hands-on porcine heart dissection with anatomy-echo correlation		I. J. Den Hamer J. vdMaaten E. Korsten J. Wink B. Woltersom
WELCOME RECEPTION		**Amazon Foyer**	
18.15-19.00	Welcome reception		

EACTA Echo BASIC COURSE			
Day 2 – SEPTEMBER 13, 2015		**Room**	**Speaker**
VALVE STRUCTURE AND FUNCTION		**Everest 1 & 2**	**Chair: D. Bettex**
08.30-09.00	Mitral valve: from anatomy to pathology		D. Bettex
09.00-09.30	Aortic valve: from anatomy to pathology		J. Swanevelder
09.30-10.00	The right heart: valves and RV systolic function		P. Wouters
BREAK		**Amazon Foyer**	
WORKSHOPS			
10.30-12.30 (30 min - Rotation in each Workshop)	Workshop 1: TEE views	Kilimanjaro 1	J.S. Jainandunsing R. Bergman
	Workshop 2: Mitral valve TTE views	Kilimanjaro 2	D. Bettex F. Guarracino
	Workshop 3: Aortic Valve TTE Views	Summit Foyer	J. Swanevelder E. Sloth
LUNCH		**Amazon Foyer**	
EXTRA CARDIAC PATHOLOGY		**Everest 1 & 2**	**Chair: G. Culas**
13.30-14.00	Aorta and great vessels		J. vdMaaten
14.00-14.30	Pericardial effusions and tamponade		F. Guarracino
14.30-15.00	Artifacts and pitfalls		G. Culas
BREAK		**Amazon Foyer**	
INDICATIONS, SAFETY AND REPORTING		**Everest 1 & 2**	**Chair: O. Erdemli**
15.30-16.00	Indications and safety of TEE		O. Erdemli
16.00-16.30	The importance of documentation and reporting the echo exam		D. Greenhalgh
ECHO QUIZ		**Everest 1 & 2**	**Chairs:** **D. Greenhalgh** **G. Culas**
16.30-17.30	Putting it all together: Echo quiz		
ADJOURN			**O. Erdemli** **A. Nierich**

2 Advanced Course Programme

EACTA Echo ADVANCED COURSE			
Day 1 – SEPTEMBER 12, 2015		**Room**	**Speaker**
08.00-08.15	Welcome and introduction	Amazon	D. Greenhalgh J. vdMaaten
3D TEE AND MYOCARDIAL IMAGING		**Amazon**	**Chair: G. Mackensen**
08.15-08.45	3D TEE: How do I get started?		S. Bouchez
08.45-09.15	3D TEE of the mitral valve		F. Mahmood
09.15-09.45	3D TEE of the aortic valve		M. Van Dyck
09.45-10.15	Quantitative 3D TEE of the LV / RV (EF, volume)		G. Mackensen
BREAK		**Amazon Foyer**	
3D TEE AND MYOCARDIAL IMAGING		**Amazon**	**Chair: S. Bouchez**
10.45-11.15	Tissue Doppler and strain imaging: How do I do it?		J. Voigt
11.15-11.45	Application of tissue Doppler and strain imaging for quantification of ventricular function		J. vdMaaten
11.45-12.15	3D interactive case presentations		S. Bouchez F. Mahmood M. van Dyck
LUNCH		**Amazon Foyer**	
LEARNING LAB. 3D AND MYOCARDIAL IMAGING			
13.15-15.15 (40 min - Rotation in each Workshop)	Workshop 1: Acquisition of 3D datasets	Amazon	G. Mackensen S. Bouchez
	Workshop 2: Measurements (valves, ventricles) in 3D	Kilimanjaro 1	J. Ender F. Mahmood
	Workshop 3: Application of tissue Doppler/Strain/Speckle	Kilimanjaro 2	J. Voigt
BREAK		**Amazon Foyer**	
DILEMMAS IN VALVE SURGERY		**Amazon**	**Chair: F. Mahmood**
16:00-16:30	Aortic root replacement: Should the aortic valve be repaired or replaced?		M. Van Dyck
16:30-17:00	How do I use 2D/3D TEE in mitral valve repair		F. Mahmood
17:00-17:30	TAVR vs. SAVR: For whom and why?		C. Mukherjee
17:30-18:00	Tricuspid regurgitation in left heart surgery: repair or leave it alone?		A. Berrebi
WELCOME RECEPTION		**Amazon Foyer**	
18.00-19.00	Welcome reception		

EACTA Echo ADVANCED COURSE			
Day 2 – SEPTEMBER 13, 2015		**Room**	**Speaker**
ECHO IN TRANSCATHETER PROCEDURES		**Amazon**	**Chair: C. Mukherjee**
08.30-09.00	How I use echo for mitral clip procedures		G. Mackensen
09.00-09.30	What are the critical elements in TAVR ?		C. Mukherjee
09.30-10.00	How to manage complications in transcatheter procedures: Interactive case presentations		G. Mackensen C. Mukherjee
BREAK		**Amazon Foyer**	
ECHO IN HEART FAILURE		**Amazon**	**Chair: D. Greenhalgh**
10.30-11.00	How I use echo for pre- and post VAD insertion		E. De Waal
11.00-11.30	Integrating lung ultrasound in the hemodynamic evaluation of acute circulatory failure		D. Lichtenstein
11.30-12.00	TEE in guiding right heart failure		D. Greenhalgh
12.00-12.30	Echo in extracorporeal life support (ECLS): problems in veno-venous and veno-arterial ECLS		I. Fedor
LUNCH		**Amazon Foyer**	
HOW TO USE ECHOCARDIOGRAPHY IN THE OR AND ICU TO MAKE CLINICAL DIAGNOSIS (SMALL GROUPS CASE DISCUSSIONS)			
13.30-15.30 (40 min - Rotation in each Case Discussion)	Case 1: Acute aortic syndrome	Amazon	A. Nierich J. Swanevelder
	Case 2: Misfortune after valve repair	Kilimanjaro 1	J. Ender G. Mackensen
	Case 3: Hemodynamic instability in the ICU	Kilimanjaro 2	I. Michaux I. Fedor
BREAK		**Amazon Foyer**	
INTERESTING CASE PRESENTATIONS WITH AUDIENCE AND EXPERT PANEL		**Amazon**	**Chairs:** **A. Nierich** **J. vdMaaten**
16:00-17:30	The audience is invited to present short cases (max. 10 min) to discuss with an expert panel		
ADJOURN			**J. vdMaaten**

3 Certification Course Programme

EACTA Echo CERTIFICATION COURSE			
Day 3 – SEPTEMBER 14, 2015		**Room**	**Speaker**
08.00-08.15	Welcome and introduction	Amazon	H. Skinner A. Nierich
FROM IMAGING TO REPORTING		**Amazon**	**Chair: H. Skinner**
08.15-08.35	EACTA/EACVI certification in adult TOE		H. Skinner
08.35-08.55	Know your echo-machine and optimize!		J. Erb
08.55-09.15	Safety, indications and complications of TOE		O. Erdemli
09.15-09.40	Comprehensive TOE exam, measurements and normal values		P. Rosseel
09.40-10.00	How to write a comprehensive TOE report		M. Hogan
BREAK		**Amazon Foyer**	
WHAT ABOUT THE VENTRICLES?		**Amazon**	**Chair: F. Guarracino**
10.30-10.55	LV systolic function and newer modes of assessment		M. Seeberger
10.55-11.20	LV diastolic function		F. Guarracino
11.20-11.45	RV function		D. Greenhalgh
11.45-12.15	Echo quiz with questions and answers on ventricular function		M. Seeberger F. Guarracino D. Greenhalgh
LUNCH		**Amazon Foyer**	
THE MITRAL VALVE		**Amazon**	**Chair: D. Bettex**
13.15-13.45	Mitral valve: a systematic evaluation		D. Bettex
13.45-14.15	Mitral valve pathologies: repair or replace?		J. Ender
14.15-14.45	Echo quiz with questions and answers on the mitral valve		D. Bettex J. Ender
BREAK		**Amazon Foyer**	
THE AORTIC VALVE		**Amazon**	**Chair: J. Swanevelder**
15.15-15.40	Aortic valve: A systematic evaluation		J. Swanevelder
15.40-16.10	Aortic valve pathologies: Repair or replace?		H. Skinner
16.10-16.40	Echo quiz with questions and answers on the aortic valve		J. Swanevelder H. Skinner
POTPOURRI		**Amazon**	**Chair: J. Fassl**
16.40-17.05	Cardiac masses and sources of embolism incl. echo quiz		J. Fassl
17.05- 17.30	Congenital heart and GUCH incl. echo quiz		J. P. Van Melle
ADJOURN			**A. Nierich**

EACTA Echo CERTIFICATION COURSE			
Day 4 – SEPTEMBER 15, 2015		**Room**	**Speaker**
MORE ON VALVES: TRICUSPID, PULMONARY AND PROSTHETIC VALVES		**Amazon**	**Chair: C. Mukherjee**
08.30-08.55	Tricuspid and pulmonary valves		J. Fassl
08.55-09.30	Evaluation of prosthetic valves		C. Mukherjee
09.30-10.00	Echo quiz with questions and answers on tricuspid, pulmonary and prosthetic valves		J. Fassl C. Mukherjee
BREAK		**Amazon Foyer**	
ADVANCED IMAGING		**Amazon**	**Chair: P. Wouters**
10.30-11.05	Myocardial deformation imaging: tissue/Doppler/Strain/Speckle		P. Wouters
11.05-11.45	The basic 3D exam and clinical applications of 3D echocardiography		S. Bouchez
11.45-12.15	Echo quiz with questions and answers on myocardial deformation and 3D echo		P. Wouters S. Bouchez
LUNCH		**Amazon Foyer**	
CARDIAC PATHOLOGIES AND MORE		**Amazon**	**Chair: M. Hogan**
13.15-13.40	Tamponade and pericardial disease		F. Guarracino
13.40-14.05	Pathologies of the aorta		A. Nierich
14.05-14.30	Endocarditis		M. Hogan
14.30-15.00	Echo quiz with questions and answers on pericardium, aorta and endocarditis		F. Guarracino A. Nierich M. Hogan
BREAK		**Amazon Foyer**	
POTPOURRI		**Amazon**	**Chair: J. Erb**
15.30-15.55	Artifacts and pitfalls		J. Erb
15.55-16.20	TOE in transcatheter procedures (TAVI, Mitraclip)		C. Mukherjee
16.20-16.45	Essential hemodynamics		S. Treskatsch
16.45-17.15	Echo quiz with questions and answers on artifacts/pifalls, transcatheter procedures and hemodynamics		J. Erb C. Mukherjee S. Treskatsch
CLOSING REMARKS AND ADJOURN			**A. Nierich** **P. Rosseel**

4 Hands-On Training Part 1 Programme

HANDS-ON TRAINING: ECHO in Anaesthesia, Intensive Care and Emergency Medicine	
This course offers a combination of pre-course e-learning and hands-on training. Both are included in the fee. Part 1 and Part 2 will be organized on both days and can be followed apart as well as together.	
Part 1 – SEPTEMBER 14 and SEPTEMBER 15, 2015 FUNDAMENTALS OF FOCUS ASSESSED TRANSTHORACIC ECHO (FATE) AND VASCULAR ACCESS	**Room**
SESSION 1: WELCOME, IMAGING, KNOBOLOGY AND BASIC VIEWS	**Everest 1 & 2**
08.00-08.15	Welcome and Introduction. Highlights of imaging, knobology and basic "Focus Assessed Transthoracic Echo" (FATE) views (subcostal 4-chamber, apical 4 chamber, parasternal long and short axis, pleural)
08.15-09.15	Hands-on training (TTE on human models)
SESSION 2: GLOBAL VENTRICULAR FUNCTION, M-MODE, KNOBOLOGY	**Everest 1 & 2**
09.15-09.30	Highlights of global ventricular function (dimensions, contractility), M-mode, knobology.
09.30-10.30	Hands-on training
BREAK	**Amazon Foyer**
SESSION 3: EXTENDED VIEWS, KNOBOLOGY	**Everest 1 & 2**
11.00-11.15	Highlights of extended views (subcostal vena cava, apical 2-chamber / 5-chamber / long axis, parasternal short axis mitral and aortic view), knobology
11.15-12.15	Hands-on training
LUNCH	**Amazon Foyer**
SESSION 4: CLINICAL SCENARIO TRAINING	**Everest 1 & 2**
13.15-14.45	Hands-on training based on evaluation of important cardiac pathology (dilatation of cardiac chambers, contractility, hypertrophy, pericardial effusion) including imaging on simulator
BREAK	**Amazon Foyer**
SESSION 5: VASCULAR CENTRAL AND PERIPHERAL ACCESS, COURSE EVALUATION	**Everest 1 & 2**
15.15-15.45	Application of echo in vascular access (central and peripheral)
15.45-16.45	Hands-on training (human models and phantoms)
CLOSING REMARKS AND ADJOURN	

FACULTY MEMBERS		
Chief Instructors:	J. van der Maaten	E. Sloth
Instructors:	R. Bergman	R. Lindeman
	J. M. Droogh	E. Metz
	E. de Felice	I. Michaux
	H. J. Friedericy	J. Wink
	E. Korsten	

5 Hands-On Training Part 2 Programme

HANDS-ON TRAINING: ECHO in Anaesthesia, Intensive Care and Emergency Medicine		
This course offers a combination of pre-course e-learning and hands-on training. Both are included in the fee. Part 1 and Part 2 will be organized on both days and can be followed apart as well as together.		
Part 2 – SEPTEMBER 14 and SEPTEMBER 15, 2015 APPLICATION OF FOCUS ASSESSED TRANSTHORACIC ECHO (FATE) WITH DOPPLER, HEMODYNAMICS, MAJOR PATHOLOGY AND LUNG ULTRASOUND.		**Room**
SESSION 1: WELCOME, BASIC FATE AND EXTENDED VIEWS		**Everest 1 & 2**
08.00-08.15	Welcome and Introduction. Highlights of basic FATE and extended views	
08.15-09.15	Hands-on training (TTE on human models)	
SESSION 2: DOPPLER KNOBOLOGY		**Everest 1 & 2**
09.15-09.30	Highlights of Doppler (colour Doppler, pulsed wave Doppler (PWD) and continuous wave Doppler (CWD)	
09.30-10.30	Hands-on training	
BREAK		**Amazon Foyer**
SESSION 3: ESSENTIAL HEMODYNAMICS		**Everest 1 & 2**
11.00-11.15	Highlights of essential hemodynamics including pressure estimation, cardiac output, and basic diastology	
11.15-12.15	Hands-on training	
LUNCH		**Amazon Foyer**
SESSION 4: CLINICAL SCENARIO TRAINING		**Everest 1 & 2**
13.15-14.45	Hands-on training based on evaluation of important cardiac pathology (heart failure, volume overload, aortic stenosis, mitral regurgitation, pulmonary embolus)	
BREAK		**Amazon Foyer**
SESSION 5: LUNG ULTRASOUND AND COURSE EVALUATION		**Everest 1 & 2**
15.15-15.45	Lung ultrasound: pleural effusion, lungconsolidation, and interventions	
15.45-16.45	Hands-on training (human models and phantoms)	
CLOSING REMARKS AND ADJOURN		

FACULTY MEMBERS		
Chief Instructors:	J. van der Maaten	E. Sloth
Instructors:	R. Bergman	R. Lindeman
	J. M. Droogh	E. Metz
	E. de Felice	I. Michaux
	H. J. Friedericy	J. Wink
	E. Korsten	

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EACTA Membership Benefits

» Access to **EACTA vMembership Area**-
your non-stop shop for all EACTA Services

» **Free Online-Access**
to electronic version of JCVA

» **Reduced fees for**
- » EACTA Annual Congress and ECHO Course
- » EACTA eAcademy
- » TOE course (basic, advanced), exam and accreditation
- » selected international meetings

» **EACTA Newsletter**
Regular update on relevant news

» **Clinical Fellowships and Research Grants**

… and many more

For more information please refer to: www.eacta.org/membership

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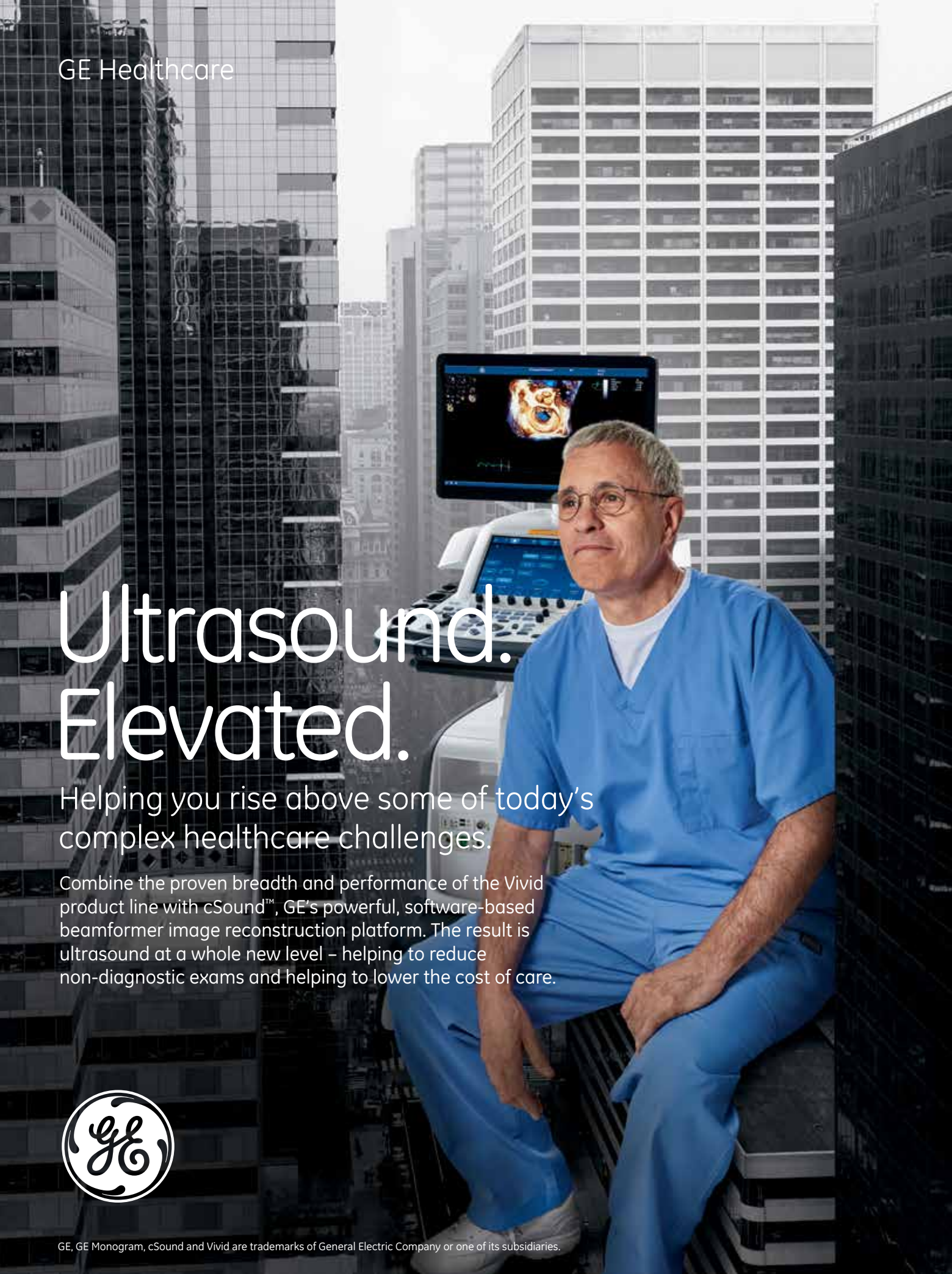
GE Healthcare
Ultrasound.
Elevated.
Helping you rise above some of today's complex healthcare challenges.
Combine the proven breadth and performance of the Vivid product line with cSound™, GE's powerful, software-based beamformer image reconstruction platform. The result is ultrasound at a whole new level – helping to reduce non-diagnostic exams and helping to lower the cost of care.
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Sponsors Profiles

In Alphabetical Order

CAE Healthcare delivers leading-edge simulation training solutions to hospitals, physicians, nurses, students, emergency responders and the military around the world. Each product is developed in partnership with clinicians and clinical educators whose aim is to ensure physiological accuracy and educational relevance.

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

The HeartWorks system comprises an outstanding suite of echocardiography educational tools. A high fidelity beating heart model supports TEE and TTE mannequin simulation, with 2D, M-mode and Doppler imaging as well as measurement capability. The addition of an ever-increasing range of pathological heart models continues to broaden learning objectives.

Creating a healthier future, together:
At Philips, we look beyond technology to the experiences of patients, providers and caregivers across the health continuum.

We unlock insights leading to solutions for the most meaningul moments of care, whether in the hospital or the home. We bring together clinical breadth and depth of expertise, technology and services, actionable data, consultative new business models and partnerships. Together, with our customers, we take risks and share responsibility – so that we can transform how care is delivered and experienced. It's a unique perspective empowering us all to create a healthier future.

secma
medical innovation

Secma is the exclusive dealer for a few of world's most outstanding producers in the field of medical equipment and disposables. Ultrasound from SonoSite, echogenic needles from Temena and sterile transducer covers from Safersonic. We only sell clinical approved, user friendly and high quality products.

Siemens Healthcare: pioneering ultrasound. The influence of the medical image in healthcare is constantly growing. Diseases are detected earlier and treatments become more effective. With Siemens pioneering ultrasound technologies, your patients can depend on you to provide accurate diagnoses and help them to make the best decisions for their care.

SIEMENS

stroke2prevent
A view saves the brain

A-View resolves the blind spot in Trans Esophageal Echocardiogram (TEE) by placing a patented, saline-filled balloon catheter in the trachea. This makes it possible to assess the embolism risk level related to atherosclerosis in the Thoracic Aorta and Carotids area.

A-View enhanced TEE; a valid method to support peri-operative decision-making.

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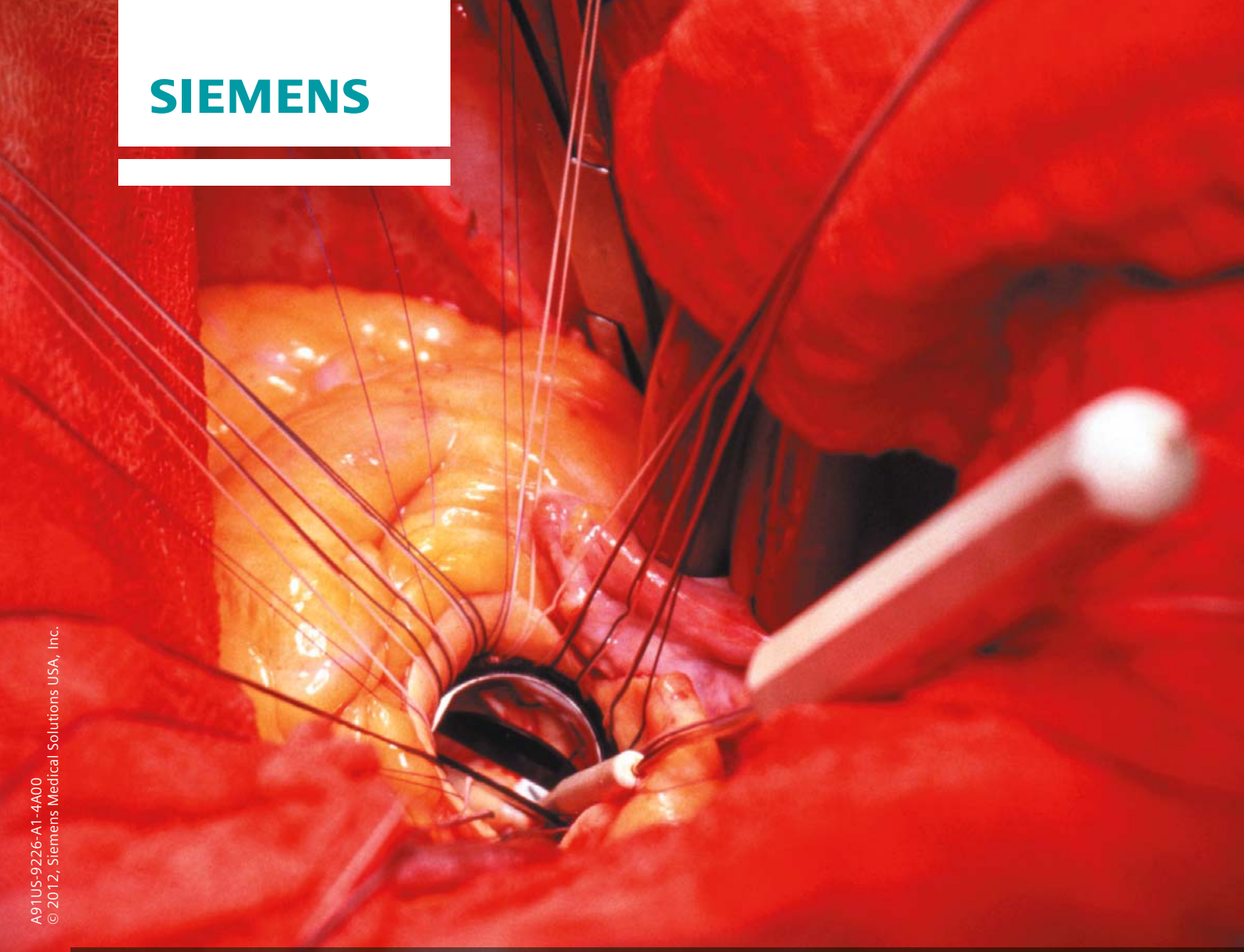

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The first time she touched his heart, she wasn't wearing gloves.

www.siemens.com/ultrasound

When Dr. Emily Chan walked into the operating room, she already knew what to expect—she had, after all, been following the progress of her patient's mitral valve disease for years.

Utilizing volumetric imaging and volume color Doppler quantification through eSie PISA™ volume analysis, Dr. Chan was able to confidently proceed with surgery for her patient's asymptomatic mitral value regurgitation. Measurements of the effective regurgitant orifice area, regurgitant volumes, and regurgitant fractions made without 2D geometric assumptions provided the extra insight and assurance she needed to schedule the surgery.

Siemens develops ultrasound solutions that provide vital information about the heart: detailed spatial resolution of intricate structures, real-time visualization of blood flow, and full-volume images made without stitching or gating. We pioneer ultrasound so that you can treat patients with confidence.

Siemens. The Ultrasound Pioneers.

Answers for life.

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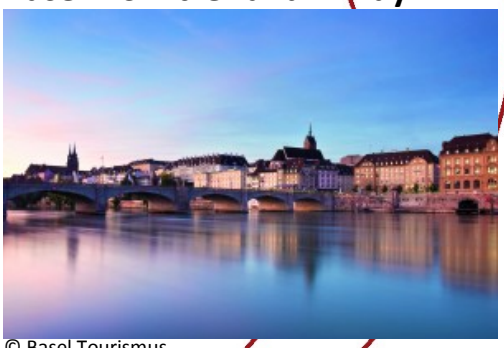

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