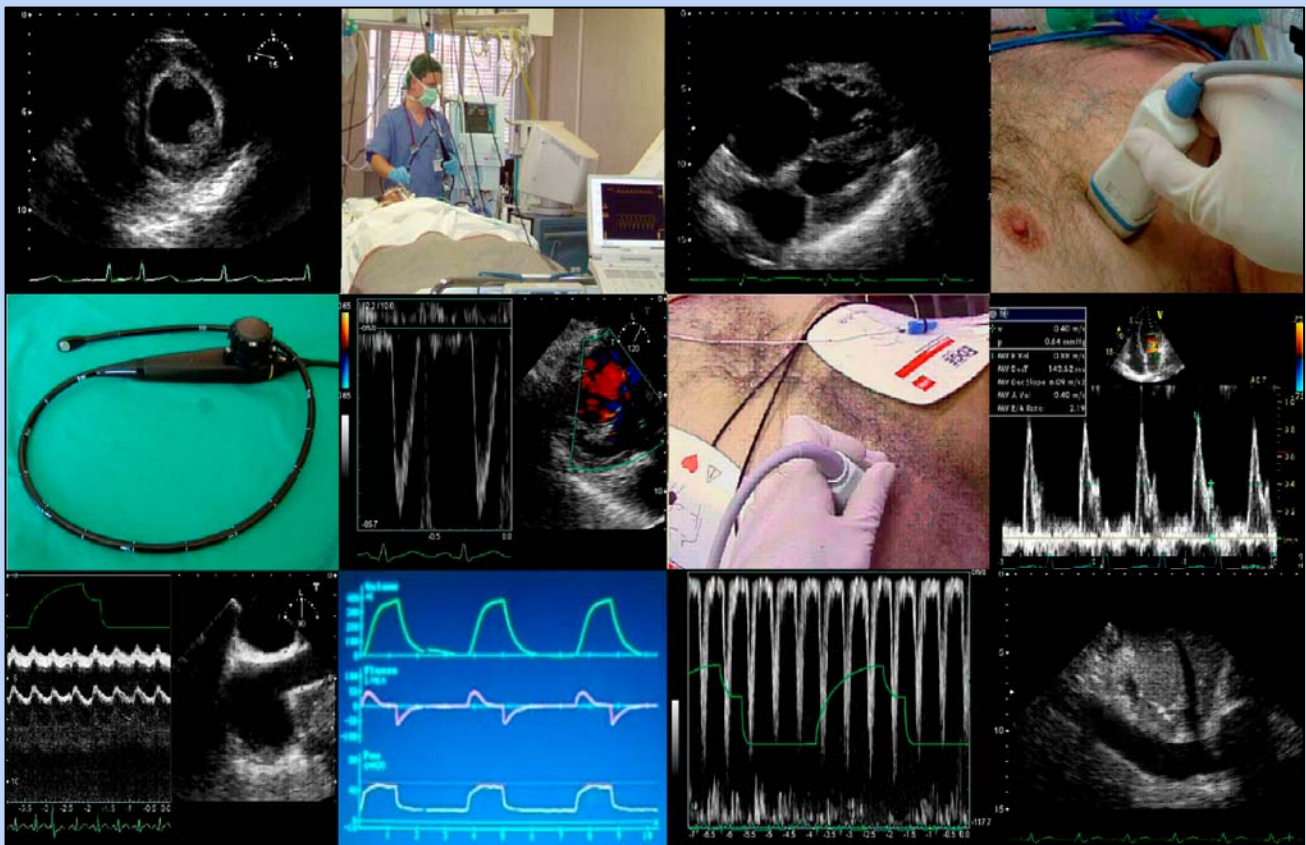




ECHOCARDIOGRAPHY for INTENSIVISTS

Milan (Italy), May 4th - 6th 2009

Ospedale L. Sacco, Dipartimento Scienze Precliniche LITA



Italian CME Credits applied for



BSE re-accreditation Credits applied for

A course on Echocardiography specifically designed for Intensivists working in General ICUs, with 2 different training pathways, tailored to different needs of trainees. The first (**“ECHO MODULE 1 - FOCUSED ECHOCARDIOGRAPHY IN CRITICAL CARE AND EMERGENCY MEDICINE”**) is targeted at intensive and critical care physicians who are new to Echocardiography and covers the use of Transthoracic Echocardiography (**TTE**) in the setting of cardiac arrest/peri-resuscitation, and as a screening tool for the unstable patient in the ICU. This module on basic Echo will include the internationally well-known formats of FEEL (Focused Echocardiography Evaluation in Life support) and FATE (Focused Assessment with Transthoracic Echocardiography), and might also be of interest to more Echo-experienced intensivists wishing to make their focused Echo assessments more effective. The second course (**“ECHO MODULE 2 – ECHODYNAMICS: HEMODYNAMIC MONITORING WITH ECHOCARDIOGRAPHY”**) is targeted at physicians who already practice Echocardiography, and wish to learn **the specialty-specific use in the critical patient of both Transthoracic (TTE) and Transesophageal (TEE) Echocardiography in a “hemodynamic fashion”**: a goal-oriented approach, aimed at providing the clinician with key cardiovascular information to noninvasively manage the hemodynamically unstable patient. Trainees will be able to register separately for a single module or for both modules in combination, depending on their training needs.

The faculty gathers some of the world’s major experts in the use of Echocardiography in ICU, and this course represents the second part of an Echo training programme which follows a dedicated **E-learning course**: participants will have free access to a web-based modular training format in the months preceding the course, so as to maximize their learning and minimise time spent in **formal lectures** during the course itself. **Interactive clinical scenarios, Live Sessions from the ICU, the EmEchoSimTest, and HOT Sessions**, (Hands On Training), therefore represent the core of this course.

Un corso di Ecocardiografia specificamente dedicato agli intensivisti delle Rianimazioni Generali, suddiviso in 2 differenti percorsi formativi, ritagliati sulle diverse esigenze dei partecipanti. Un primo percorso (**“ECHO MODULE 1 - FOCUSED ECHOCARDIOGRAPHY IN CRITICAL CARE AND EMERGENCY MEDICINE”**) rivolto agli intensivisti e medici d’urgenza che si accostano per la prima volta all’Ecocardiografia: verrà insegnato un impiego mirato dell’Ecocardiografia Transtoracica (**TTE**) nel contesto dell’arresto cardiaco / nei setting di “peri-resuscitation”, e come strumento di screening nel paziente instabile emodinamicamente in rianimazione. Il training di questa applicazione “basic” dell’echocardiografia, alla portata di tutti, consterà dei format già noti a livello internazionale del FEEL (Focused Echocardiography Evaluation in Life support) e del FATE (Focused Assessment with Transthoracic Echocardiography), e si rivolge anche a coloro che già impieghino l’Ecocardiografia (intensivisti, emergenzisti e cardiologi) e che vogliano renderne il loro impiego mirato nel malato critico più efficace. Un secondo corso (**“ECHO MODULE 2 - HEMODYNAMIC MONITORING WITH ECHOCARDIOGRAPHY”**) sarà invece rivolto agli intensivisti che già praticano routinariamente l’Ecocardiografia, e vogliono apprendere **l’impiego specialità- specifico nel paziente critico delle metodiche transtoracica (TTE) e transesofagea (TEE), secondo un approccio “emodinamico”**: un approccio “goal-oriented”, rivolto ad ottenere le informazioni cardiocircolatorie chiave per gestire non invasivamente il paziente instabile. I partecipanti potranno così decidere di iscriversi ad uno solo dei due moduli o ad entrambi a seconda della propria necessità di formazione.

La faculty internazionale è composta da alcuni dei maggiori esperti mondiali nell’impiego dell’Ecocardiografia in Rianimazione, e questo corso rappresenta in pratica la seconda parte di una proposta formativa che comprende anche una specifica struttura di **E-learning**: i partecipanti al corso avranno accesso gratuito ad un format di training modulare online nei mesi che precederanno il corso, in modo da massimizzare l’apprendimento, e ridurre il numero delle lezioni formali durante il corso. **Scenari clinici interattivi, Sessioni Live dalla terapia intensiva, l’EmEchoSimTest® e HOT Sessions**, (Hands On Training), rappresentano infatti il nucleo del corso.

FOCUSED ECHOCARDIOGRAPHY in Critical Care & Emergency Medicine (FATE and FEEL)



Course Directors: *R. Breitzkreutz, Price S, G. Via*

Echo MODULE 1 - Monday May 4th

**e-LEARNING ON US PHYSICS AND PRINCIPLES
"KNOBOLOGY" - PITFALLS & ARTIFACTS IN ECHOCARDIOGRAPHY**

AVAILABLE at www.winfocus.org/e-learning/ECHO-MODULAR

h 8.00 Registration, Welcome and Course Instructions

BASICS IN TRANSTHORACIC ECHOCARDIOGRAPHY

Chairpersons: *R. Breitzkreutz, S. Price*

- h 8.30 **FOCUSED ECHOCARDIOGRAPHY IN CRITICAL CARE: WHERE IT LIES WITHIN ECHO TRAINING** *S. Price*
- h 8.40 **SONOANATOMY OF THE HEART: BASIC TTE VIEWS** *G. Via*
- h 9.00 **AUTOTEST ON TTE VIEWS**

OVERALL ASSESSMENT OF CARDIAC FUNCTION AND VOLUME STATUS

- h 9.15 **BASIC VENTRICULAR DYSFUNCTION ASSESSMENT: LV AND RV** *T. Hirche*
- h 9.35 **BASIC VOLUME STATUS ASSESSMENT** *J. Poelaert*
- h 9.55 **GROSS VALVULAR DYSFUNCTION ASSESSMENT** *E. Catena*
- h 10.15 **BASIC TAMPONADE ASSESSMENT (INCLUDING PERICARDIAL PUNCTURE TECHNIQUE)**
G. Voga
- h 10.35 *Coffee break*

EMERGENCY ECHOCARDIOGRAPHY PROTOCOLS: FEEL & FATE

Chairpersons: *D. Talmor, F. Guarracino*

- h 10.55 **AN ALS-CONFORMED ALGORITHM FOR RESUSCITATION AND PERI-RESUSCITATION CARE: FEEL (FOCUSED ECHOCARDIOGRAPHY EVALUATION IN LIFE SUPPORT)**
R. Breitzkreutz

- h 11.15 **FATE APPROACH IN THE ICU (FOCUSED ASSESSMENT WITH TRANSTHORACIC ECHOCARDIOGRAPHY)** *A. Christiansen*
- h 11.35 **POTENTIAL PITFALLS & LIMITATIONS OF FOCUSED ECHOCARDIOGRAPHY** *S. Price*
- h 11.55 **PRO-CON DEBATE: “DO WE NEED FOCUSED ECHOCARDIOGRAPHY IN THE CRITICALLY ILL?”** *R. Breitzkreutz, T. Hirche*

----- h 12.15 – 13.15 *Snack-Lunch (and briefing for instructors)* -----

HOT SESSION AND SIMULATION

Chairpersons: *G. Via, E. Catena*

- h 13.15 **HANDS ON TRAINING (HOT): BASIC TTE VIEWS, NORMAL FINDINGS REVISION, FREE HAND** *ALL FACULTY*
(12 workstations with: healthy volunteers, tutorial laptops)
- h 15.45 **INTERACTIVE CASE PRESENTATIONS** *R. Salem, M. Slama, D. Talmor, A. Christiansen*
- h 16.15 *Coffee Break*
- h 16.35 **HANDS ON TRAINING (HOT): ALS MEGACODE, PATHOLOGICAL CLIPS, FEEL WITH TIMING DURING CPR, FATE PROTOCOL** *ALL FACULTY*
(12 workstations with: healthy volunteers, tutorial laptops, CPR simulation with ResusciAnne Mannequins, Schallware Ultrasound Simulator®)
EMECHO-SIMTEST®
- h 19.05 **POST COURSE TEST (MCQs), PRIZE TO BEST ECHO-SIMTEST® PERFORMER**
- h 19.30 **END OF COURSE, ATTENDANCE CERTIFICATE DISTRIBUTION**

A joint project of the World Interactive Network Focused On Critical UltraSound (WINFOCUS), www.winfocus.org – the Emergency Ultrasound working group of the University Hospital, Frankfurt am Main, Germany – the FATE Group, Aarhus University Hospital, Skejby, Denmark – the University Hospital Fondazione IRCCS Policlinico San Matteo, Pavia, Italy — the University Hospital Luigi Sacco, Milan, Italy - the SMART Congress, Milan.



"ECHODYNAMICS": Hemodynamic Monitoring with Echocardiography



Course Directors: *F. Guarracino, D. Talmor, G. Via*

Echo MODULE 2 - Tuesday May 5th

e-LEARNING ON LEFT & RIGHT VENTRICLE, HEMODYNAMICS, VALVE DISEASE

AVAILABLE at www.winfocus.org/e-learning/ECHO-MODULAR

h 8.00 Registration, Welcome and Course Instructions

KEY ELEMENTS of ECHO HEMODYNAMIC ASSESSMENT

Chairpersons: *J Poeleart, D. Talmor*

- h 8.30 INTRODUCTION: HEMODYNAMIC ECHOCARDIOGRAPHY *G. Via*
- h 8.40 EVALUATION OF LEFT VENTRICULAR SYSTOLIC FUNCTION *K. Fox*
- h 9.00 EVALUATION OF RIGHT VENTRICULAR SYSTOLIC FUNCTION *G. Voga*
- h 9.20 DOPPLER MEASUREMENT OF CARDIAC FILLING PRESSURES *J. Poelaert*
- h 9.40 MEASUREMENT OF CARDIAC OUTPUT, PULMONARY ARTERY PRESSURE *D. Talmor*
- h 10.00 HYPOVOLAEMIA AND VOLUME RESPONSIVENESS *R. Salem*
- h 10.20 *Coffee Break*
- h 10.50 **LIVE SESSION FROM THE ICU & CASE STUDIES**

----- h 12.20 – 13.20 *Snack-Lunch (and briefing for instructors)* -----

HOT SESSION 1

- h 13.20 **HANDS ON TRAINING (HOT)** WITH TTE: LEFT VENTRICLE, CARDIAC OUTPUT, FILLING PRESSURES (*12 workstations with healthy volunteers*) *ALL FACULTY*

ECHO ASSESSMENT of THE SHOCKED PATIENT

Chairpersons: *F. Guarracino, K. Fox*

- h 14.50 ECHOCARDIOGRAPHIC CLUES TO THE DIAGNOSIS IN THE SHOCKED PATIENT: A SYSTEMATIC APPROACH *J. Poelaert*
- h 15.05 EVALUATION OF SEPTIC SHOCK *G. Via*
- h 15.25 *Coffee Break*
- h 15.50 EVALUATION OF CHEST TRAUMA *D. Talmor*
- h 16.10 EVALUATION OF COMPLICATED AMI *F. Guarracino*
- h 16.30 *Break*

HOT SESSION 2

- h 16.40 **HANDS ON TRAINING (HOT)** WITH TTE: RIGHT VENTRICLE, PAP MEASUREMENT, VOLUME STATUS ASSESSMENT
(12 workstations with healthy volunteers) *ALL FACULTY*
- h 18.10 END OF FIRST DAY

Echo MODULE 2 - Wednesday May 6th

ECHO ASSESSMENT in SPECIFIC CLINICAL SCENARIOS

Chairpersons: *G. Voga, E. Catena*

- h 8.30 EVALUATION OF SEVERE, ACUTE VALVULAR DYSFUNCTION *F. Guarracino*
- h 8.50 EVALUATION OF TAMPONADE *S. Price*
- h 9.10 EVALUATION OF ACUTE, SEVERE PULMONARY EMBOLISM *E. Catena*
- h 9.30 EVALUATION IN ARDS *M. Slama*
- h 9.50 EVALUATION OF NON-TRAUMATIC ACUTE AORTIC SYNDROMES *L. Lanzarini*
- h 10.10 *Coffee Break*
- h 10.40 **LIVE SESSION FROM THE ICU & CASE STUDIES**

----- h 12.00 – 13.00 *Snack-Lunch (and briefing for instructors)* -----

Chairpersons: *T. Hirche, M. Slama*

- h 13.00 **HEMODYNAMICS IN THE PATIENT WITH ATRIAL FIBRILLATION** *M. Slama*
h 13.20 **PULMONARY EDEMA: CARIOGENIC VS NON CARIOGENIC.
WEANING FAILURE FROM MECHANICAL VENTILATION** *S. Price*
h 13.40 **PULMONARY EDEMA: LUNG ULTRASOUND** *G. Via*

INTERACTIVE CASE SESSION

- h 14.00 **INTERACTIVE CASE STUDIES COMPETITION**
(Clinical simulation and problem solving)

HOT SESSION 3

- h 15.10 **HANDS ON TRAINING (HOT) WITH TTE: FREE HANDS-ON, FOCUS WITH THE EXPERT,
LUNG ULTRASOUND** *(12 workstations with healthy volunteers)* **ALL FACULTY**
h 16.10 *Coffee Break*
h 16.30 **HANDS ON TRAINING (HOT) WITH TTE: FREE HANDS-ON, FOCUS WITH THE EXPERT
LUNG ULTRASOUND** *(12 workstations with healthy volunteers)* **ALL FACULTY**
h 17.30 **POST COURSE TEST (MCQs), PRIZE TO INTERACTIVE SESSION WINNER**
h 18.00 **END OF COURSE, ATTENDANCE CERTIFICATE DISTRIBUTION**

A joint project of the World Interactive Network Focused On Critical UltraSound (WINFOCUS), www.winfocus.org - the Echo Department of the Royal Brompton Hospital, London, UK - the University Hospital IRCCS Policlinico San Matteo Foundation, Pavia, Italy - the University Hospital Luigi Sacco, Milan, Italy – the SMART Congress, Milan, Italy.



Sponsored by



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Registration and Fees

The Course includes a **Pre-Course online** (www.winfocus.org/e-learning/ECHO-MODULAR). Only a **maximum number of 60 participants** for both **Echo Module 1** and **Echo Module 2** will be accepted, in order to obtain a trainee to trainer ratio for the hands-on sessions of no more than 5 to 1. **Italian Continuing Education in Medicine Accreditation (ECM)** and **British Society of Echocardiography re-accreditation credits** have been applied for.



Language spoken during the course will be **English**.
Simultaneous translation in Italian will be provided.

Registration Fee:

- **Echo Module 1** **400,00 €** (330 € + 20% VAT, IVA)
- **Echo Module 2** **750,00 €** (625 € + 20% VAT, IVA)
- **Echo Module 1 + 2** **1100,00 €** (916 € + 20% VAT, IVA)

Registration Fees include:

- Access to pre-Course online material
- Attendance to scientific sessions (lectures, interactive case studies, live sessions, HOT sessions)
- Italian Continuing Education in Medicine (ECM) Accreditation, + BSE Credits
- Course Kit
- Snack-Lunches, Coffee Breaks

Registration should be made online at the website www.startpromotion.it, **before April the 15th 2008**. Registration will be confirmed on receipt of payment, places will be allocated on a “first come, first served” basis. In case of cancellation before the 25th of March, 50% of the registration fee will be refunded. After that date, no reimbursement will be made. **Participants to module 2 are required to bring a pocket calculator** (for the interactive sessions and MCQs)

Registration fees can be paid as follows:

- Non transferable banker's cheque (Assegno Bancario non trasferibile) / Banker's draft (Assegno Circolare)
- Post office money order (Vaglia postale)
- Banker's transfer to: START PROMOTION Srl – INTESA SANPAOLO Spa, Agenzia di Pavia, viale Cesare Battisti, 18 - CIN X, ABI 03069, CAB 11310, C/C 000027269163, BIC Code BCITIT33702, IBAN IT21X030 6911 3100 0002 7269 163.

Further detailed instructions for registration form filling and payment will be at www.startpromotion.it.