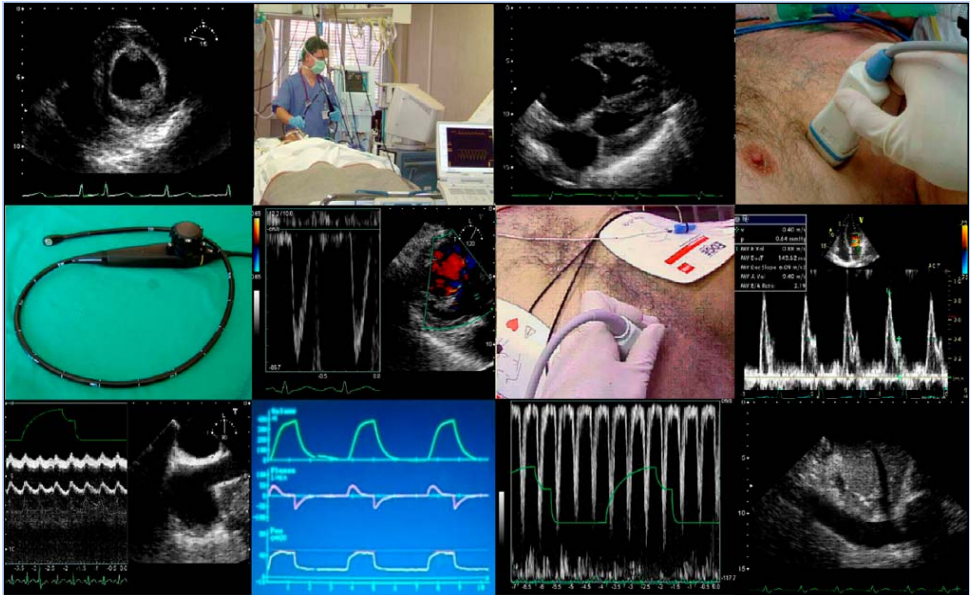
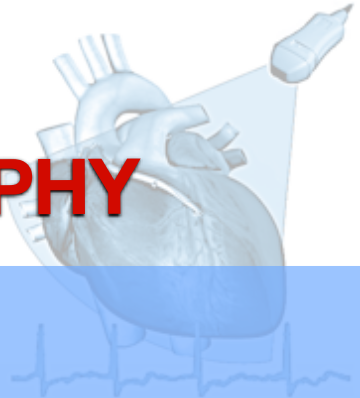


WINFOCUS'

CRITICAL CARE ECHOCARDIOGRAPHY



BASIC ECHO - Focused Cardiac Ultrasound **MTB ECHO - "Echodynamics"**

*An International Course for Emergency,
Intensive and Critical Care physicians
designed and organized by the
WINFOCUS ECHO-Group*



A course on Echocardiography specifically designed for Intensive, Critical Care and Emergency Physicians, with 2 different training pathways, tailored to the different needs of trainees. The first (“**WF BASIC ECHO - FOCUSED ECHOCARDIOGRAPHY**”) is targeted at 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 or cardiologists wishing to make their focused Echo assessment of the critical patient more effective. The second course (“**WF More Than Basic, MTB, ECHO - ECHODYNAMICS**”) is targeted at physicians who already practice Focused Cardiac Ultrasound/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 course, BASIC or MTB, or for both courses in combination, depending on their training needs.

The faculty gathers some of the world’s major experts in the use of and training in Echocardiography in ICU, and provides participants with a remarkable amount of practical teaching, simulation and interactive cases.





WF BASIC ECHO (WBE) Focused Cardiac Ultrasound



online **web-based learning on US physics and principles, “knobology”, pitfalls & artifacts in echocardiography**
available at www.winfocus.org/e-learning/ECHO-MODULAR

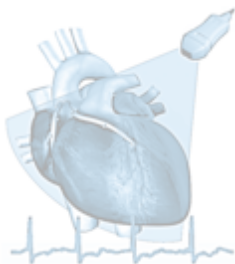
May 7th **BASICS & APPROACH TO CARDIAC ARREST**

- 7.45 *Registration, Pre-Test*
- 8.15 **Welcome, course instructions**
- 8.25 **Focused Cardiac Ultrasound in Critical Care: aims and place in echocardiography training** (*Hussain A.*)
- 8.40 **Basic 2-D Echo knobology** (*Voga G.*)
- 9.00 **Basic TTE views & eyeballing principles** (*Mongodi S*)
- 9.25 **Basic assessment of LV function** (*Balik M*)
- 9.45 **Basic assessment of RV function** (*Gulic T*)
- 10.05 *Coffee*
- 10.30 **HANDS ON TRAINING (HOT 1): Basic TTE views, Laptop training, TTE simulators** 12 WORKSTATIONS with healthy models, tutorial laptops Heartworks™ TTE simulators (*All faculty*)
- 13.30 *Lunch*
- 14.15 **Basic assessment of volume status** (*Via G.*)
- 14.35 **Basic assessment of tamponade** (*Bouhemad B*)
- 14.55 **Focused Cardiac Ultrasound in cardiac arrest** (*Breitkreutz R.*)
- 15.05 **Lung ultrasound in cardiac arrest & shock: pneumothorax, “wet lung”** (*Storti E.*)

- 15.30 *Break*
- 15.45 **HANDS ON TRAINING (HOT 2): TTE views wrap up, ALS Megacode, Laptop training, TTE simulators, Lung ultrasound**
(12 WORKSTATIONS with healthy models, tutorial laptops, ACLS mannequins, TTE simulators) *(All faculty)*
- 18.15 *End of first day*

May 8th APPROACH TO SHOCK

- 8.15 **Basic valves assessment** *(Oren-Grinberg A.)*
- 8.40 **Approach to shock** *(Via G.)*
- 9.10 **Pitfalls and limitations of focused echocardiography** *(Price S.)*
- 9.35 **Implementation and organization of a Critical Care Echo program** *(Talmor D.)*
- 9.50 **The WINFOCUS Basic Echo certification pathway** *(Via G.)*
- 10.00 *Coffee*
- 10.20 **INTERACTIVE CASE SESSION**
- 11.30 *Final Test*
- 12.00 *End of Course & Certificate distribution*





WF More Than Basic ECHO (WF-MTBE) “Echodynamics”



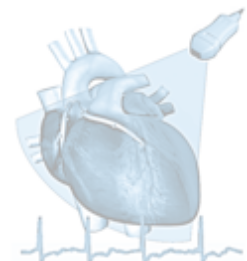
online **web-based learning** available at
www.winfocus.org/e-learning/ECHO-MODULAR

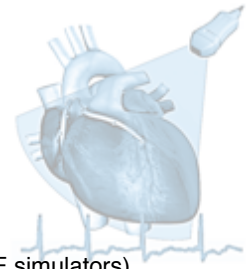
May 8th **ECHODYNAMICS**

- 12.45 *Registration, Pre-Test*
- 13.20 **Introduction: hemodynamic echocardiography** (*Via G.*)
- 13.30 **Basic Doppler principles & knobology** (*Gulic T*)
- 13.50 **Introduction to TEE** (*Poelaert J.*)
- 14.10 **Quantification of left ventricular systolic function** (*Voga G*)
- 14.30 **Assessment of right ventricular systolic function** (*Balik M.*)
- 14.50 *Coffee*
- 15.10 **Volume responsiveness** (*Bouhemad B.*)
- 15.30 **Estimation of LV filling pressures** (*Hussain A*)
- 15.50 **Measurement of cardiac output & pulmonary artery pressure** (*Talmor D.*)
- 16.10 **Hands On Training (HOT 3)** (*All faculty*)
(12 WORKSTATIONS with healthy models, Heartworks™ TEE simulators)
- 18.40 *End of first day*

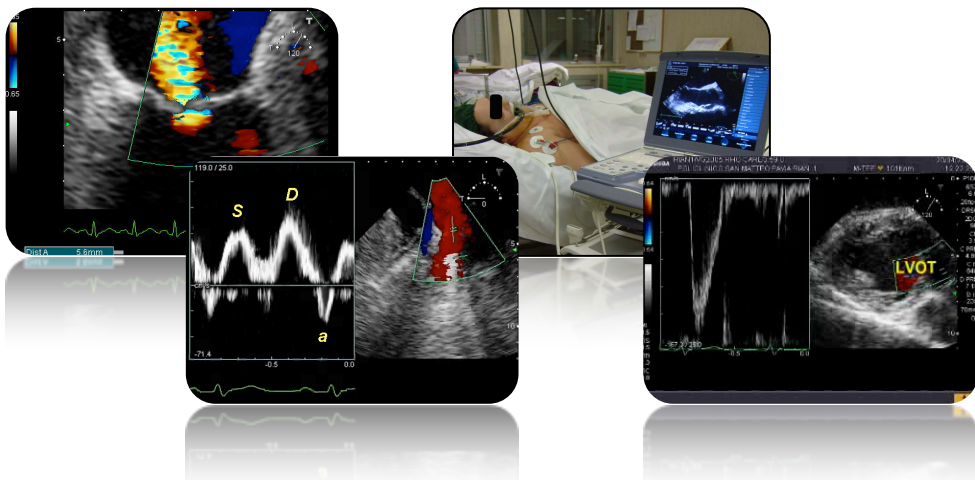
May 9th **CLINICAL SCENARIOS**

- 8.00 **Septic shock** (*Bouhemad B.*)
- 8.20 **Chest trauma** (*Oren-Grinberg A.*)
- 8.40 **Complicated AMI** (*Guarracino F.*)





9.00	Tamponade (Price S.)
9.20	Coffee
9.45	Hands On Training (HOT 4) (All faculty) (12 WORKSTATIONS with healthy models, Heartworks™ TEE simulators)
12.45	Lunch
13.30	Pulmonary edema: cardiogenic vs non cardiogenic (Price S.)
13.55	Severe acute pulmonary embolism (Gulic T)
14.15	ARDS (Via G.)
14.35	Break
14.50	Pulmonary edema: lung ultrasound (Storti E.)
15.10	Severe acute valvular dysfunction (Hussain A.)
15.30	Coffee
16.00	INTERACTIVE CASE SESSION
17.30	Final Test
18.00	End of Course & Certificate distribution



Faculty

Balik Martin (Prague, CHTZECK REPUBLIC)
Breitkreutz Raoul (Frankfurt, GERMANY)
Bouhemad Belaid (Paris, FRANCE)
Fava Fiorenza (Pavia, ITALY)
Guarracino Fabio (Pisa, ITALY)
Gulic Tanja (Maribor, SLOVENIA)
Hussain Arif (Riyadh, SAUDI ARABIA)
Lotteria Alessandra (Pavia, ITALY)
Mongodi Silvia (Pavia, ITALY)
Oren-Grinberg Achikam (Boston, USA)
Orlando Anita (Pavia, ITALY)
Poelaert Jan (Brussels, BELGIUM)
Price Susanna (London, UK)
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Storti Enrico (Milano, ITALY)
Talmor Daniel (Boston, USA)
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Via Gabriele (Pavia, ITALY)
Voga Gorazd (Celija, SLOVENIA)

Course Directors

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Oren-Grinberg Achickam (Co-Director)
Hussain Arif (Co-Director)

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A joint project of the World Interactive Network Focused On Critical UltraSound (WINFOCUS) – the University of Pavia, Italy - Fondazione IRCCS Policlinico San Matteo, Pavia, Italy - the SMART Congress, Milan



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