

Siemens Healthineers
Hands-On
Tutorials
ESC Congress 2017

August
26–30
Barcelona,
Spain

Visit us at ESC Congress 2017

In order to keep you updated in the field of state-of-the-art cardiovascular imaging, Siemens Healthineers is providing a comprehensive set of Hands-On Tutorials (HOT) sessions during this year's ESC Congress.

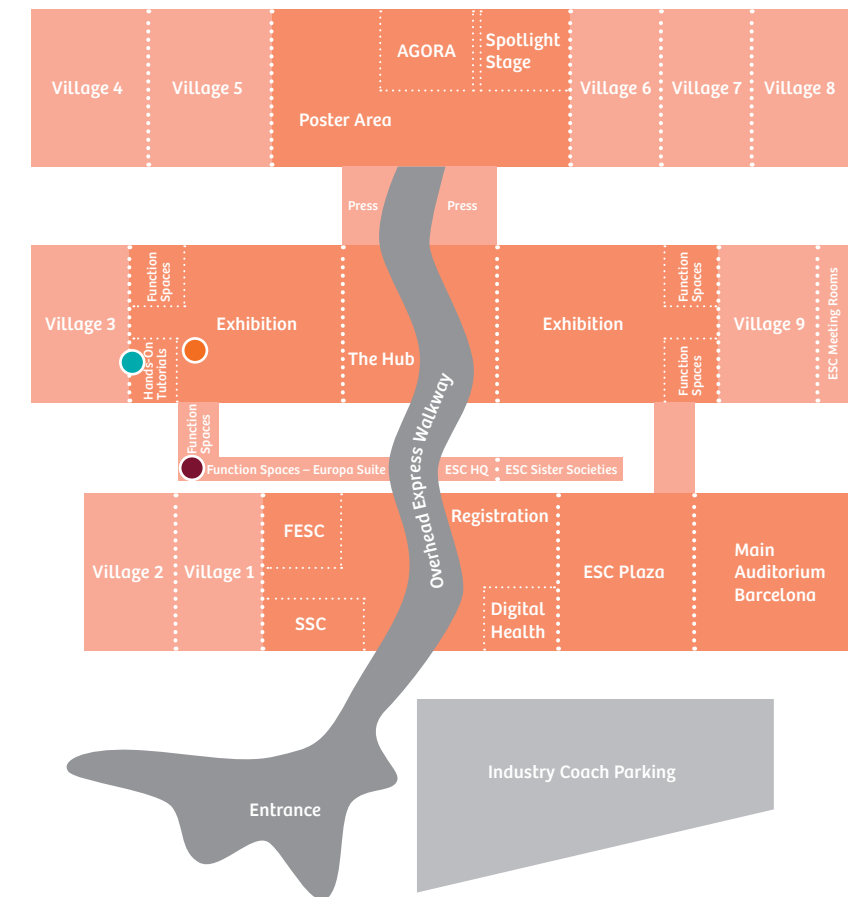
You will have the opportunity to learn from renowned clinical experts how to perform and analyze real-time 3D echocardiography, comprehensive studies with cardiac Computed Tomography and cardiac Magnetic Resonance Imaging. Besides that, we also offer case-based learning sessions with detailed discussions.

Exhibition floor plan

- **Siemens Healthineers**
Booth F400

- **Hands-On Room**
#4, Exhibition

- **Experience & Innovation Lounge (by invitation only)**
Function Spaces
E49-51, E55
(Access from Exhibition and Village 3)



Hands-On Tutorials

Saturday, August 26

14:00 – 15:30
CT for guiding structural heart disease interventions
Mohamed Marwan (Erlangen-Nuremberg, Germany)

Pre-procedural imaging is essential for successful planning and performance of several cardiac interventions. Cardiac CT is a non-invasive imaging modality capable of providing precise information required for different coronary and non-coronary interventions. The role of cardiac CT for the

guidance of different cardiac interventions, e.g. TAVI, percutaneous management of paravalvular leaks, and LAA occlusion, will be discussed in this session. A presentation of clinical cases completes this session.

16:00 – 17:30
Learned pattern recognition technology in TTE and TEE to deliver measurement reproducibility and accelerate workflow
Nicolas Merke (Berlin, Germany)

Cardiac biometrics are routinely measured from echocardiograms to provide quantitative analysis of the human heart. This workshop will show how to use learned pattern recognition to provide consistent and reproducible

measurements of spectral Doppler and the left ventricle in both 2D and 3D all performed with speed and fidelity to advance the practice of echocardiography.



Sunday, August 27

09:00 – 10:30
Cardiac CT imaging for myocardial ischemia – CT dynamic myocardial perfusion
Mohamed Marwan (Erlangen-Nuremberg, Germany)

Coronary CT Angiography (cCTA) is well-established in diagnosing patients with significant coronary stenosis. However, there are many patients where the question of the hemodynamic significance of the stenosis remains. CT dynamic myocardial perfusion imaging offers the possibility to identify patients with myocardial ischemia that would benefit from

coronary revascularization. In this hands-on tutorial you will learn about our newest dose-saving techniques for both cCTA and the main indications for CT dynamic myocardial perfusion imaging, providing you with valuable tips and tricks to optimize your patient care and clinical workflow.

A presentation of clinical cases completes this session.

11:00 – 12:30
Valves are to Flow, as Flow is to Valves ... clinical benefits of advancements in 3D TEE
Matthias Fröhde (Berlin, Germany)

In this workshop you will be introduced to techniques for aortic and mitral valve modeling using real time True Volume TEE data. It will introduce you to capabilities of the Siemens true Volume TEE transducer that provides continuous high

frame rate volume color Doppler data so you can understand form, function, and flow comprehensively without having to make difficult trade-offs.

13:00 – 14:30
Cardiac magnetic resonance imaging in cardiomyopathies
Giso von der Recke (Bonn, Germany)

This session focuses on cardiomyopathies and myocarditis. Multiple clinical cases will be showcased on MR workstations. Standard protocols will be demonstrated, including evaluation

of cardiac function, and typical delayed enhancement phenomena for specific cardiac diseases (e.g. HCM, DCM, cardiac amyloidosis, etc.).

15:00 – 16:30
Learned pattern recognition technology in TTE and TEE to deliver measurement reproducibility and accelerate workflow
Nicolas Merke (Berlin, Germany)

Cardiac biometrics are routinely measured from echocardiograms to provide quantitative analysis of the human heart. This workshop will show how to use learned pattern recognition to provide consistent and reproducible

measurements of spectral Doppler and the left ventricle in both 2D and 3D all performed with speed and fidelity to advance the practice of echocardiography.

Monday, August 28

09:00 – 10:30
Measure volume flow non-invasively, accurately, reproducibly, and quickly in 3D
Nicolas Merke (Berlin, Germany)

Stroke Volume and Cardiac output are measured in every TTE and some TEE exams irrespective of disease or diagnosis. This workshop will allow you to leverage true-volume color Doppler from TTE and TEE acquisitions and quantify Stroke

Volume, Cardiac Output (HR), Regurgitant Fraction, and Regurgitant Volume non-invasively, accurately, reproducibly, and quickly.

11:00 – 12:30
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Mohamed Marwan (Erlangen-Nuremberg, Germany)

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15:00 – 16:30
CT cardiac imaging in challenging situations
Mohamed Marwan (Erlangen-Nuremberg, Germany)

Nowadays, high-end CTs offer accurate diagnostic imaging especially in the context of challenging situations such as advanced age, progressed disease state, or irregular heart rhythm. A significant number of patients are unable to hold their breath, or to hold still at all. This hands-on tutorial will

provide insight to our newest dose-saving techniques and provide valuable tips how to achieve excellent quality in cardiac imaging especially in complex or challenging situations.

A presentation of clinical cases completes this session.

Tuesday, August 29

09:00 – 10:30
CT for guiding structural heart disease interventions
Mohamed Marwan (Erlangen-Nuremberg, Germany)

Pre-procedural imaging is essential for successful planning and performance of several cardiac interventions. Cardiac CT is a non-invasive imaging modality capable of providing precise information required for different coronary and non-coronary interventions. The role of cardiac CT for the

guidance of different cardiac interventions, e.g. TAVI, percutaneous management of paravalvular leaks, and LAA occlusion, will be discussed in this session.

A presentation of clinical cases completes this session.

11:00 – 12:30
Cardiac magnetic resonance imaging in ischemic heart disease
Giso von der Recke (Bonn, Germany)

This session focuses on ischemic heart disease. Current standard protocols will be demonstrated, including evaluation of cardiac function, adenosine stress perfusion, and delayed enhancement. Many practical tips and tricks will be presented, for example on how to speed up data

acquisition or standardized interpretation. Multiple clinical cases will be demonstrated on MR workstations. The participants of this tutorial will be able to read the studies themselves and interpret the findings.

13:00 – 14:30
Measure volume flow non-invasively, accurately, reproducibly, and quickly in 3D
Nicolas Merke (Berlin, Germany)

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