

Online 3D Workshop

Who is this workshop aimed at?

Those who use #echofirst and want to learn more about how to use 3D in more detail but also those who wish to start their 3D endeavor. During the online hands-on session we will use the GE Healthcare remote solution of the EchoPAC workstation. Prior knowledge in using the EchoPAC workstation is helpful but not necessary as we will have an introductory session at the beginning of the second day.

How will you benefit from this workshop?

This workshop will convey the basic principles about the physical aspects, orientation and acquisition of 3D. Knowledge of these basic skills is of great importance as they will provide you with the tools to avoid the pitfalls of 3D.

You will also learn about the application of 3D.

To round off the workshop, you will learn the secrets behind how to create magic.

Course directors:

Prof. Volkmar Falk, Dr. Nicolas Merke

Faculty:

A. Hagendorff, D. Muraru, H. Dreger, F. Knebel, E. Romero, J. Knierim

Organised by

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Fees:

2 days with workstation access **750.00 Euro**

2 days without workstation access **200.00 Euro**

The event can be followed via Twitter **#3DWorkshop2022** thanks to our Twitter ambassadors who will share some of the concepts and collect the attendees' comments and questions for the faculty.



Twitter ambassadors:

@KardiologieHH

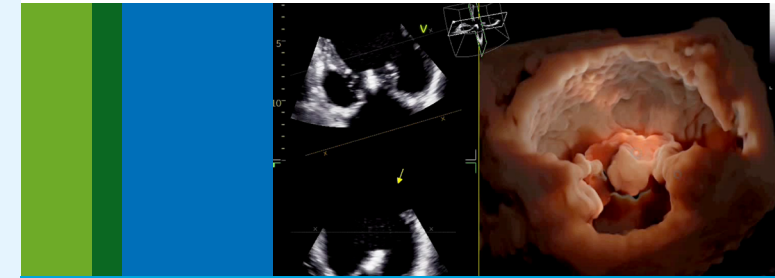
@mirvatalasnag

@echo_stepbystep



DEUTSCHES HERZZENTRUM BERLIN

STIFTUNG DES BÜRGERLICHEN RECHTS



Online 3D Workshop

22 January 2022 – 23 January 2022

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This workshop is GE-based, as we will use a GE EchoPAC workstation solution that will be provided as remote access.

Basic knowledge in using the workstation is helpful, and there will be a basic introduction on day 2 prior to the virtual hands-on session.

Although this workshop is GE-based, users of different providers can also attend, as many of the concepts are applicable irrespective of the machines being used.

3D echocardiography has improved significantly over the past years, especially – but not exclusively – in transesophageal echocardiography. 3D echocardiography is essential for the evaluation of valvular heart disease and for therapy planning. Furthermore, it continues to improve volume measurements by not relying on anatomical assumptions.

Acquiring meaningful 3D images requires knowledge of potential pitfalls and dedicated training.

This two-day online workshop will provide you with the basics of 3D and will teach you how to acquire and process 3D datasets.

We have prepared a combination of theoretical and practical hands-on sessions. Furthermore, you will gain insights on acquisition rules and on the application of 3D. In the hands-on sessions, we will share our secrets on how the magic happens in the postprocessing process. For personnel training purposes, you will have remote access to a workstation (WS) solution (GE EchoPAC).

At the end of every talk, there will be 30 to 45 minutes of workstation training focusing on the topic of the talk. You will thus have the opportunity to work with real datasets to master the hands-on session on day 2.

Day 1: 08:00 – 17:30

08:00 – 08:10 Introduction **Nicolas Merke**

08:10 – 09:00 3D physics & orientation **Andreas Hagendorff**

Discussion 15 min.

09:15 – 10:45 Acquisition & application of 3D **Denisa Muraru**

Part 1: Optimizing 3D acquisition

Part 2: Implementation of 3D in the echo lab:
Clinical indication and added value–case based

Discussion 15 min.

11:00 – 11:30 Coffee break

11:30 – 12:45 Surgeons' viewpoint in a teamwork approach:
What is must have in 3D
Volkmar Falk & Workstation: Elena Romero

Discussion 15 min.

13:00 – 14:00 Lunch break

14:00 – 15:15 Interventionalists' viewpoint in a teamwork approach: What is must have in 3D
Henryk Dreger & Workstation: Elena Romero

Discussion 15 min.

15:30 – 17:30 Knobology & postprocessing, let the magic happen
Nicolas Merke & Fabian Knebel

Discussion 15 min.

Day 2: 08:00 – 17:30

08:00 – 09:00 Introduction to Workstation:
Nicolas Merke & Elena Romero

Discussion 15 min.

09:15 – 10:15 LV: How to image and analyze 3D datasets
Fabian Knebel & Nicolas Merke

Discussion 15 min.

10:30 – 11:30 RV: How to image and analyze 3D datasets
Andreas Hagendorff & Denisa Muraru

11:30 – 11:45 Coffee break

11:45 – 13:45 MV: How to image and analyze 3D datasets
Nicolas Merke & Jan Knierim

Discussion 15 min.

14:00 – 15:00 Lunch break

15:00 – 17:00 TV: How to image and analyze 3D datasets
Denisa Muraru & Nicolas Merke

Discussion 15 min.