

Clinical Workshop

Spectral Imaging with photon-counting CT

Nov 3-4, 2025



Course design and objectives

The NAEOTOM Alpha class with its QuantaMax photon-counting CT detectors enables spectral imaging with every scan. This extended information can help to perform precise functional evaluations and addresses limitations of conventional CT. To use this data source, there are physical and practical considerations and application strategies that have to be understood.

This two-day in-person class for radiologists and technologists will provide you with profound knowledge and practical skills in using the diagnostic possibilities of spectral photon-counting CT (PCCT) in your daily clinical routine. While lead innovators in CT technology will shortly introduce you to the physics and background of image formation and analysis with PCCT, clinical presentations will be held by Christian Booz, MD, and Felix Müller, MD, PhD, for spectral PCCT applications in the entire body for various oncologic, vascular, and musculoskeletal indications. The talks will be followed by interactive, hands-on sessions using *syngo.via* workstations to enhance your practical and clinical skills in spectral PCCT post-processing and interpretation.



*Courtesy of University
Hospital Pilsen, Pilsen,
Czech Republic*

Course content

- Physics of photon-counting CT
- Instructions on functionality and workflow
- Clinical presentations on Cardiothoracic, Abdomen, Oncology, MSK and Trauma, and Neuro, Head and Neck imaging
- Interactive hands-on evaluation of datasets using *syngo.via* for each clinical module
- Practical insights and clinical advice for your routine use of Spectral CT
- Outlook on novel contrast media

Clinical speakers

Christian Booz, MD is a board-certified radiologist and consultant at the Department of Diagnostic and Interventional Radiology of the University Hospital Frankfurt, Germany. Since 2020 he is the head of CT research and responsible for current CT research projects as well as technological CT innovations at University Hospital Frankfurt. He has been using Dual Energy CT head-to-toe for many years in clinical routine with a main focus on emergency and musculoskeletal imaging.

Felix Müller, MD, PhD, is a fourth year radiology resident at Rigshospitalet, Copenhagen, Denmark, and postdoctoral researcher at Herlev and Gentofte Hospital, Denmark. He is a specialist in dual energy and photon-counting CT. He has supervised a number of PhD projects on the use of Dual Energy CT for bone marrow edema visualization and gout/crystal deposition disease characterization. In addition he is closely involved with the standardized implementation of Dual Energy and spectral CT across the capital region of Denmark.

The products/features (mentioned herein) are not commercially available in all countries. Their future availability cannot be guaranteed.

Date details

Nov 3-4, 2025

Participant prerequisites

Basic knowledge in photon-counting CT image acquisition, reconstruction, and interpretation. Knowledge of Dual Energy CT.

Course hours

9:00 a.m. to 3:00 p.m.

Costs

The course fee is 1,500.00 € excl. VAT.

Meeting point on first day 9 a.m.

Lobby
Allee am Röthelheimpark 3b, Erlangen, Germany

Location

Allee am Röthelheimpark 3b
91052 Erlangen
Germany

Participants

This course is designed for radiologists and technologists who would like to enhance their clinical knowledge and practical skills in using Spectral PCCT.

Hotel

Please contact ct.clinical-workshop.team@siemens-healthineers.com for hotel recommendations.

Number of participants

5 to 10

Course director and content responsible

Christian Booz, MD
Head of the research area computed tomography
University Hospital Frankfurt am Main, Germany



Felix Müller, MD, PhD
Resident in Radiology and Postdoctoral Researcher at RAIT.dk
Rigshospitalet Copenhagen, Denmark

Registration

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