

LEVEL II

GALEN ADVANCED Course

CARDIO-THORACIC CROSS-SECTIONAL IMAGING

September 28-29, 2017
Heidelberg/Germany

Education in partnership.

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Course information

This course is aimed at senior residents and recently board-certified radiologists. The purpose of the course is to consolidate the knowledge in chest and cardiac radiology and to provide an integrated view into state-of-the-art cardio-thoracic cross-sectional imaging. The course is focused on the advanced applications of CT and MR in chest and cardiac imaging. The range of topics covers the clinically challenging areas of cardio-thoracic radiology such as imaging of patients with pulmonary infections or nodules, interstitial pneumonias, airway disease, pulmonary hypertension, coronary heart disease, cardiomyopathies, and valvular disease. The faculty consists of internationally renowned European experts sharing their expertise and best cases. The combination of didactic lectures with interactive workshops guarantees the high educational value of this teaching programme.

Learning objectives

- to become familiar with the latest technical and methodological advances
- to understand the diagnostic and prognostic value provided by state-of-the-art radiology
- to consolidate knowledge about the current best practice indications for patients with challenging pulmonary and cardiac pathology
- to learn about the increasing role of imaging biomarkers



Programme

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Thursday, September 28, 2017

13:00–13:45	Registration
13:45–14:00	Welcome and introduction
14:00–14:30	Infectious lung disease C.P. Heussel, Heidelberg/DE
14:30–15:00	Airway disease N. Sverzellati, Parma/IT
15:00–15:30	Interstitial lung disease S. Desai, London/UK
15:30–15:50	Coffee break
15:50–18:00	Workshops (C.P. Heussel, N. Sverzellati, S. Desai)

Host Organiser



H.-U. Kauczor
Heidelberg/DE

Friday, September 29, 2017

09:00–09:30	Management of pulmonary nodules and lung cancer E. Van Beek, Edinburgh/UK
09:30–10:00	Pulmonary hypertension and right heart strain J. Vogel-Claussen, Hannover/DE
10:00–10:30	CT diagnosis/rule out of coronary heart disease K. Nikolaou, Tuebingen/DE
10:30–10:50	Coffee break
10:50–13:00	Workshops (E. Van Beek, J. Vogel-Claussen, K. Nikolaou)
13:00–14:00	Lunch break
14:00–14:30	Assessing the ischemic myocardium (CT/MR) C. Loewe, Vienna/AT
14:30–15:00	Non-ischemic cardiomyopathies M. Francone, Rome/IT
15:00–15:30	The role of CT in the management of valvular disease H. Alkadhi, Zurich/CH
15:30–15:50	Coffee break
15:50–18:00	Workshops (C. Loewe, M. Francone, H. Alkadhi)
18:00	Certificate of attendance

Venue

Crowne Plaza Heidelberg City Centre
Kurfuerstenanlage 1
69115 Heidelberg
Germany

Registration fee

ESR members in training
Early fee EUR 200; Late fee EUR 250

Non-members in training
Early fee EUR 300; Late fee EUR 350

ESR members
Early fee EUR 300; Late fee EUR 350

Non-members
Early fee EUR 400; Late fee EUR 450

(Early fee until eight weeks prior to the course)
(Late fee after eight weeks prior to the course)

For further information
on the programme and
registration please visit

Learning Objectives

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Infectious lung disease

C.P. Heussel, Heidelberg/DE

- to learn about the available imaging modalities to be used for the evaluation of immunoincompetent patients with fever of unknown origin
- to become familiar with the technical imaging considerations and the proper diagnostic algorithm
- to know more about the typical imaging findings e.g. in fungal pneumonia and non-infectious infiltrates
- to learn about the problems in interpretation of the radiological course of the disease

Airway disease

N. Sverzellati, Parma/IT

- to provide an up-to-date review of computed tomography (CT) imaging methods for evaluating patients with airway disease
- to supply a pragmatic compendium of the state of the art in CT imaging of various common airway disorders in adults
- to summarise what clinicians want to know from CT scans of patients with airway disease

Management of pulmonary nodules and lung cancer

E. Van Beek, Edinburgh/UK

- to appreciate the role of imaging in lung nodule detection
- to appreciate the complimentary role of MRI in diagnosis and staging of lung cancer
- to learn about the potential of MRI to perform screening and follow-up examinations (in conjunction with CT)

Pulmonary hypertension and right heart strain

J. Vogel-Claussen, Hannover/DE

- to learn about the cardio-pulmonary pathophysiology in PH patients
- to learn about cardiopulmonary MRI techniques for diagnosis, treatment monitoring and prognosis in PH patients
- to learn about cardiopulmonary CT techniques for diagnosis, treatment monitoring and prognosis in PH patients

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CT diagnosis/rule out of coronary heart disease

K. Nikolaou, Tuebingen/DE

- to provide guidelines for an optimised cardiac CT imaging protocol in the diagnosis of coronary artery disease (CAD)
- to become familiar with suitable clinical indications for CT in the diagnosis of CAD and to discuss actual guidelines
- to learn about new developments in CT imaging of CAD patients, e.g., for viability and perfusion imaging

Assessing the ischemic myocardium (CT/MR)

C. Loewe, Vienna/AT

- to understand the need for imaging the ischemic myocardium
- to improve knowledge about possibilities for non-invasive characterisation of myocardial disorders due to ischemia
- to become familiar with the assessment and calculation of transmural, myocardial salvage and myocardial obstruction
- to understand the relation between morphology and function in myocardial ischemia

Non-ischemic cardiomyopathies

M. Francone, Rome/IT

- to become familiar with the importance of using a phenotype-based approach for the evaluation of non-ischemic cardiomyopathies
- to learn about the strengths and possibilities of CMR-based tissue characterisation capabilities of conventional and T1-T2 mapping-based imaging techniques
- to understand the prognostic implications derived from myocardial function and tissue abnormalities observed with modern cardiac imaging

The role of CT in the management of valvular disease

H. Alkadhi, Zurich/CH

- to become familiar with optimised CT protocols for imaging of the cardiac valves
- to understand the most common types of valve diseases that can be visualised with CT
- to illustrate the potential and limitations of CT for imaging of the cardiac valves
- to summarise the role of CT for pre-interventional planning of transcatheter valve implantation



Please note that programmes are marked with a logo to indicate their classification according to the European Training Curriculum.

LEVEL I First three years of training

LEVEL II Fourth and fifth year of training
(general radiologist standard)

LEVEL III Subspecialty training standard



ESOR stands for education in partnership.

The GALEN Courses are implemented with the support of our valued partner Bracco.