

Photon Counting CT Academy

CLINICAL IMPACT & HANDS-ON TRAINING

SEMMELWEIS UNIVERSITY
Budapest, Hungary

November 4-7, 2026

Organizer: Semmelweis University, Medical Imaging Centre
International Relations and Alumni Affairs
Venues: Semmelweis University
Anatomy & Innovation Center for Education and Research &
Medical Imaging Centre

COURSE LEADERS



Chair of the Event



**Prof. Dr. Pál Maurovich
Horvat, MPH**

Director, Medical Imaging Centre
Chair of the Event & Medical Officer & Head
of the Scientific and Organising Committee

Committee Members & Course Directors



**Prof. Dr. Pál Maurovich
Horvat, MPH**

Director, Medical Imaging Centre



Dr. Dávid L. Tárnoki

Head of Nuclear Medicine
Department, Medical Imaging
Centre



**Prof. Dr. Ákos Varga-
Szemes**

Director of Cardiovascular Imaging
Research, Medical University of South
Carolina, USA

LECTURERS Faculty



Dr. Ibolyka Dudás

Department of Radiology, Medical
Imaging Centre



Dr. György Gulácsi

Department of Radiology, Medical
Imaging Centre



Dr. Péter Hegedűs

Vice Director, Medical Imaging Centre



Dr. Ádám Jermendy

Head of CT Department, Heart and
Vascular Centre



Dr. Gergely Kiss

Head of CT department, Department of
Radiology, Medical Imaging Centre



Dr. István Kóbor PhD

Lead assistant, Department of
Radiology, Medical Imaging Centre



Dr. Zsuzsanna Lénárd

Department of Radiology,
Medical Imaging Centre



Dr. Nikolett Marton

Department of Radiology, Medical
Imaging Centre



Dr. Bernhard Schmidt

Head of CT Physics, Innovation and Global
Collaboration, Siemens Healthineers

LECTURERS Faculty



Dr. Lili Száraz

Department of Radiology, Medical
Imaging Centre



Dr. Bálint Szilveszter

Heart and Vascular Centre



Dr. Gábor Szudi

Department of Neuroradiology,
Medical Imaging Centre



Dr. Ádám D. Tárnoki

Department of Radiology, Medical
Imaging Centre



**Dr. Milán Vecsey-
Nagy**

Heart and Vascular Centre

SCHEDULE

Day 1



4 NOVEMBER, 2026, WEDNESDAY DAY 1: BASICS OF PCCT: PHYSICS AND PROTOCOLS

13:00-13:15

Welcome to the Semmelweis University
Medical Imaging Centre

Prof. Dr. Pál Maurovich
Horvat

Block 1 – Physics of PCCT: Basics & Protocols & Products Chair: Dr. Bernhard Schmidt

13:15-14:00

Photon-counting CT: Clinical applications

Dr. Bernhard Schmidt

13:45-14:05

Photon-counting detector physics

Prof. Dr. Dominik von
Elverfeldt

14:05-14:30

Overcoming the limitations of hybrid-pixel-
detector imaging: Super-resolution and
bringing molecular imaging to CT

Dr. Martin Peter
Pichotka

14:30-14:45

Coffee break

14:45 - 15:45

Workflow considerations and tips for starting
your PCCT program: Tips and protocols

Dr. István Kóbor PhD

15:45 – 16:00

Discussion

16:00 – 17:00

Live scanning: Cardiac Imaging

17:15 – 18:00

Live scanning: Emergency Medicine

SCHEDULE

Day 2



5 NOVEMBER, 2026, THURSDAY

DAY 2: APPLICATIONS OF PCCT IN ABDOMEN/ONCOLOGY · NEUROIMAGING

Block 2 - Abdominal and Oncologic Applications of PCCT: Foundations & Protocols

Chair: Dr. Ibolyka Dudás

8:00-8:30	Abdominal photon counting CT: Protocols in clinical practice, spectral Imaging	Dr. Ibolyka Dudás
8:30-9:15	Clinical application of PCCT in abdominal diseases: Tips and tricks	Dr. Ibolyka Dudás
9:15-10:30	Read with the experts: Hands-on case-based discussion of challenging abdominal and oncological cases	Faculty
10:30-10:45	Coffee break	
10:45 - 11:30	Acute abdomen: Emergency applications of PCCT in the abdomen	Dr. Péter Hegedűs
11:30 - 12:00	Vascular evaluation in transplantation by PCCT	Dr. Zsuzsanna Lénárd
12:00 - 13:30	Read with the experts: Challenging acute abdominal & transplant cases	Faculty
13:30-14:30	Lunch break	

Block 3 - Neuroradiology Applications of PCCT

Chair: Dr. Gábor Szudi

14:30-15:00	Photon-counting detector CT for the follow-up evaluation of treated intracranial aneurysms	Dr. Gábor Szudi
15:00-16:00	Read with the experts: Challenging neurologic cases	Faculty
16:00-16:15	Coffee Break	
16:15-16:45	ENT and oro-maxillofacial surgery Applications of PCCT	Dr. Gergely Kiss
16:45-18:00	Read with the experts: Challenging ENT & oro-maxillofacial surgery cases	Dr. Gergely Kiss
19:00-22:00	Dinner with all participants	

SCHEDULE

Day 3



6 NOVEMBER, 2026, FRIDAY

DAY 3: APPLICATIONS OF PCCT IN MUSCULOSKELETAL AND CARDIOVASCULAR DISEASES

Block 4 - Applications of PCCT in MSK Imaging

Chair: Dr. Nikolett Marton

8:00-8:30	Musculoskeletal applications of PCCT: Tips and tricks and workflow	Dr. György Gulácsi
8:30-9:15	Spectral imaging with photon-counting CT: Principles and MSK applications	Dr. Nikolett Marton
9:15-09:30	Coffee break	
9:30-11:00	Read with the experts: Challenging MSK and trauma cases	Faculty
11:00-12:00	Lunch break	

Block 5 - PCCT and Coronary Artery Disease

Chair: Prof. Dr. Pál Maurovich Horvat

12:00-12:45	Cardiovascular applications of PCCT: Tips and tricks and workflow	Dr. Lili Száraz
12:45-13:30	Plaque quantification and stents	Dr. Milán Vecsey-Nagy
13:30-14:30	Read with the experts: Challenging CV cases	Faculty
14:30-14:45	Coffee break	
14:45-15:15	PCCT, myocardial characterization, and stress perfusion	Dr. Bálint Szilveszter
15:15-15:45	Vascular imaging	Dr. Ádám Jermendy
15:45-18:00	Read with the experts: Challenging CV cases	Faculty

SCHEDULE

Day 4



7 NOVEMBER, 2026, SATURDAY

DAY 4: APPLICATIONS OF PCCT IN CHEST DISEASES

Block 6 - Applications of PCCT in chest imaging

Chair: Dr. Dávid L. Tárnoki, Dr. Ádám D. Tárnoki

8:00-8:45	PCCT applications in lung imaging: From thromboembolic disease to interstitial lung disease: Tips and tricks and workflow	Dr. Dávid L. Tárnoki, Dr. Ádám D. Tárnoki
8:45-09:15	PCCT applications in acute chest imaging	Dr. Péter Hegedűs
9:15-9:30	Coffee break	
9:30-11:00	Read with the experts: Challenging thoracic cases	Faculty
11:00-11:15	Coffee break	
PCCT image interpretation quiz, interactive case discussion Chair: Dr. Gergely Kiss, Dr. Dávid L. Tárnoki, Dr. Ádám D. Tárnoki		
12:00-12:15	Future perspectives of PCCT	Prof. Dr. Ákos Varga-Szemes

JOIN THE PROGRAM

Application & Registration



APPLICATION PROCESS

1. APPLICATION & REGISTRATION

- Interested participants are required to complete their registration via the **online registration platform**. Registration is only considered valid upon successful payment.

2. PAYMENT

- The course fee can be paid immediately upon registration through our SimplePay online payment system.

3. COURSE FEE

- 1500 EUR / person

4. REGISTRATION DEADLINE

- October 1, 2026

Course fee:
1500 EUR / person

VENUES

1096 Budapest, Üllői út 93.

Anatomy & Innovation Center for Education and Research.

Scan for exact location:



1083 Budapest, Korányi Sándor u. 2.

Medical Imaging Centre.

Scan for exact location:



PRACTICAL INFORMATION

On-Site Attendance



Registration & Participation

- **On-site registration** will take place at the course venue.
- Attendance must be confirmed **twice daily**: upon arrival in the morning and before leaving in the afternoon.
- Remember to **sign the attendance sheet every day**, as it forms part of the accreditation documentation.
- At the end of the course, participants are kindly asked to complete and return the **anonymous feedback questionnaire**.
- Please wear your **name badge** visibly throughout the course.

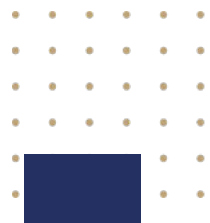


During the Course

- Wi-Fi:
- Network: [Wi-Fi name]
- Password: [Wi-Fi password]
- Coffee breaks will be provided as indicated in the programme.
- Meals are not included in the participation fee; participants are kindly asked to arrange their own lunch and other meals.
- All lectures, presentations, case discussions and professional activities will be conducted in English.

Photography & Video

- Photos and video recordings may be taken during the course.
- Selected materials may be used for communication and promotional purposes, including online and on social media.
- Detailed information regarding photography, recording and the use of such materials will be shared with participants prior to the event.





SEMMELWEIS

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CONTACT

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Find more information about the Directorate [HERE](#).