International Course in Contrast Enhanced Ultrasound
Hepatic and Extrahepatic Indications

Pre-Course: October 19th 2022
CEUS Course: October, 20th – 22nd 2022

Course fees:
- Standard fee will be 600 €
- Online Course fee will be 300 €
To register visit: www.CEUS-course.eu
www.ceuscampus.de
Announcement

Given the current circumstances due to the spread of the novel coronavirus disease (COVID-19) including travel restrictions put in place by many countries which will last for an unknown time frame also beyond this crisis, the International CEUS Course in Munich, is planned to go ahead as a hybrid course. We are currently developing a solution to hold this course on-line and life in Munich. Lecturers who are unable to travel will present their lectures online. Additionally, we work to have an online Life Webinar meeting so that we could share our course worldwide.

For the life course a complex hygiene concept was developed consisting of marked seats with a minimum distance to the nearest person. The 2G rule will be implemented in the course, persons who recovered from COVID or fully vaccinated persons are admitted to the course. Additionally, mobile disinfection will be provided all day long.

During this course there will again be time for your questions and comments. Additionally, on the pre-course day representatives from the industry will inform you about latest and technical developments to come.

We hope you will benefit from attending this course and we wish you a successful educational course and a joyful stay in Munich.

Dear colleagues,

Never before has a new technique changed the field of ultrasound in such a revolutionary way like the use of ultrasound contrast media. The International CEUS Course is aiming at two goals: Understanding the basics of CEUS, US machines and settings and secondly deepening the understanding the benefit of using contrast agents in hepatic and extrahepatic diseases.

A renowned national and international faculty, well known for their extensive experience and contributions in CEUS, will give the participants a wealth of practical knowledge that can be used immediately for your daily practice. Lectures covering all the primary applications and the latest scientific research will be reinforced with hands-on training or interactive case reviews during the workshops.

During this course there will be time again for an individual training on the US machines and to work on clinical cases – from easy to difficult ones to interpret. During the pre-course day representatives from the industry will inform you about latest and future technical developments. The pre-course day will end by hands on sessions on the latest US devices.

We hope you will benefit from attending this course - a European School project- which again is supported by the EFSUMB (European Federation of Societies for Ultrasound in Medicine and Biology).

We wish you a successful educational course and a joyful stay in Munich

Dr. Hans-Peter Weskott
Course Director

Prof. Dr. Dirk-André Clevert
Course Director
Pre – Course:

Afternoon Session:  
Chair: HP Weskott

14:00 - 16:35: CEUS: Latest technical developments
14:00 - 14:25: Bracco
14:25 - 14:50: Canon Medical Systems
14:50 - 15:15: Samsung
15:15 - 15:50: Philips
15:50 - 16:15: FUJIFILM Healthcare / Hitachi Medical Systems
16:15 - 16:40: Mindray
16:40 - 17:05: Siemens
17:05 - 17:30: Esaote
17:30 - 17:55: GE

14:00 – 18:00: Contrast Agent, US Equipment, technical introductions, workshops

1st Day

Morning Session:  
Chair: DA Clevert

08:00-09:00: Registration
09:00-09:05: Welcome address  
Weskott / Clevert
09:05-09:25: Bubbles and how to talk to them  
Burns
09:25-09:40: The future developments of bubbles  
Greis
09:40-09:55: Discussion
09:55-10:30: Kinetics: Liver, Lung, Spleen, Kidney  
Weskott
10:30-10:35: Discussion

10:35-10:50: Coffee break
Morning Session:  
Chair: DA Clevert

10:50-11:10: How to start my first examination and documentation and what to do, if...  
Clevert

11:10-11:40: Benign FLL  
Weskott

11:40-12:00: Liver metastases  
Sidhu

12:00-12:10: Discussion

12:10-12:45: Interactive liver quiz  
Clevert

12:45-13:45: Lunch

Afternoon Session:  
Chair: S Wilson

13:45-14:30: WORKSHOPS  
Weskott

14:30-14:50: Diffuse liver disease  
Kunze

14:50-15:10: Development of liver abscesses  
Wilson

15:10-15:40: HCC, ICC and LI-RADS  
Kono

15:40-16:00: LI-RADS Quiz

16:00-16:20: Sonazoid: Recommendations &Consensus statements.  
Lee

16:20-16:35: CEUS in pregnant women  
Clevert

16:35-16:55: CEUS in liver interventions: RFA, Microwave, IRE  
Leen

16:55-17:00: Discussion

17:00-17:15: Coffee break

17:15-17:35: Gallbladder disease  
Weskott

17:35-18:00: CEUS in splenic diseases  
Sidhu

18:00-18:20: CEUS and trauma  
Clevert

18:20-18:30: Discussion

19:30: Social Dinner
**21st October 2022**

**Course:**

### 2nd Day  Morning Session:

**Chair:** K Stock

- **09:00-09:20:** Update EFSUMB Guidelines and Recommendations for the clinical practice of CEUS in Non-Hepatic Applications  
  **Sidhu**
- **09:20-09:40:** Solid pancreatic masses  
  **D’Onofrio**
- **09:40-10:00:** Cystic pancreatic masses  
  **D’Onofrio**
- **10:00-10:05:** Discussion
- **10:05-10:20:** Acute and chronic pancreatitis  
  **Pachmann/Weskott**
- **10:20-10:40:** IRE and pancreatic interventions  
  **Leen**
- **10:40-11:00:** Contrast enhanced Ultrasound in gastric cancer  
  **Huang**

**11:00-11:20:** Coffee break

- **11:20-11:45:** Cystic renal lesions  
  **Clevert**
- **11:45-12:15:** Solid renal lesions  
  **Stock**
- **12:15-12:35:** Infectious renal diseases  
  **Weskott**
- **12:35-12:55:** CEUS in renal interventions  
  **Clevert**
- **12:55-13:15:** Diagnosis of vesicoureteral reflux  
  **Darge**
- **13:15-13:20:** Discussion

**13:20-14:20:** Lunch

### Afternoon Session:

**Chair:** C. Pachmann

- **14:20-14:45:** WORKSHOP
  - **14:45-15:05:** CEUS and Transplant Kidney  
    **Fischer**
  - **15:05-15:25:** CEUS and Transplant Liver  
    **Clevert**
  - **15:25-16:05:** CEUS in Paediatric and Transplantation  
    **Franke**
  - **16:05-16:20:** Discussion

**16:20-16:35:** Coffee break

- **16:35-17:20:** CEUS - Carotid artery, Aorta, EVAR  
  **Clevert**
- **17:20-17:40:** Vessel wall: Examinations techniques, neovascularisation  
  **Feinstein**
- **17:40-18:00:** Vascular bleeding detected by CEUS  
  **Clevert**
- **18:00-18:10:** Discussion

**18:10-18:45:** WORKSHOP
3rd Day More Extra-hepatic Indications

Morning Session: Chair: HP Weskott
09:00-11:30: Europe meets China
09:00-09:40: Plaque Vascularization
09:40-09:50: Discussion
09:50-10:30: Education
10:30-10:40: Discussion
10:40-11:20: Basic Thyroid and AI thyroid ultrasound
11:20-11:30: Discussion
11:30-11:50: Coffee break
11:50-12:10: Role of ultrasound guided radiofrequency ablation
for thyroid nodule treatment
12:10-13:20: The future of ultrasound
12:10-12:30: Sonoporation gene therapy— an option in future?
12:50-13:05: Toy or tool, AI in ultrasound
13:05-13:20: Discussion and Adjourn

Workshops:

19th October 2022
21st October 2022

13:45-14:30: WORKSHOPS
1. Tips and Tricks
2. CEUS in evaluation of the bowel

21st October 2022

14:20-14:45: WORKSHOP
1. Interactive quiz of liver lesions
2. CEUS in renal diseases (case study)

18:10-18:45: WORKSHOP
1. Clinical cases from Riga
2. Vascular cases
Course Directors

Dr. Hans-Peter Weskott
KRH Klinikum Siloah-Oststadt-Heidehaus, Hannover, Germany

and

Prof. Dr. Dirk-André Clevert
Interdisciplinary Ultrasound-Center, Department of Clinical Radiology
University of Munich-Großhadern Campus, Munich, Germany

Prof. Dr. Vito Cantisani
Sapienza University of Rome, Department of Radiological, Roma, Italy

Prof. Dr. Steve Feinstein
Cardiology Department, Rush University, Chicago, USA

Prof. Dr. Eddy Leen
Imperial College, London, England

Prof. Dr. Mirko D’Onofrio
Institute of Radiology, GB Rossi Hospital, University of Verona, Verona, Italy

Prof. Dr. Paul Sidhu
Department of Radiology, King’s College London, UK

Ass. Prof. Dr. Konrad Stock
Klinikum rechts der Isar der TU München, Abt. für Nephrologie, II. Med. Klinik, Germany

Prof. Dr. Stephanie Wilson
Department of Radiology, Calgary, Canada
Prof. Dr. Peter Burns  
Sunnybrook Health Sciences Centre, Toronto, Canada

Prof. Dr. Kassa Darge  
Department of Radiology at Children's Hospital of Philadelphia, USA

Prof. Dr. Thom Fischer  
Interdisciplinary Ultrasound-Center, Department of Radiology, Charité-University Berlin, Germany

Dr. Doris Franke  
Children’s Department, Medical School Hannover, Germany

Dr. Christian Greis  
Bracco Company, Konstanz, Germany

Prof. Dr. Yuko Kono  
Clinical Professor of Medicine, Gastroenterology and Hepatology, Radiology  
University of California San Diego

Prof. Dr. Pintong Huang  
The Second Affiliated Hospital of Zhejiang, University of Medicine Hangzhou, China

Dr. George Kunze  
Schwarzwald-Baar Klinikum, Villingen-Schwenningen, Germany

Prof. Dr. Jae Young Lee  
Seoul National University Hospital, Korea

Dr. Carsten Pachmann  
Internistenpraxis-Osterstrasse, Hamburg, Germany

Prof. Dr. Maija Radzina  
Riga Stradins University, Latvia

Prof. Dr. Lei Wang  
Department of Gastrointestinal Surgery, The Affiliated Hospital of Qingdao University, China

Prof. Dr. Hui-Xiong Xu  
Center of Minimally Invasive Treatment for Tumor, Department of Medical Ultrasound, Shanghai Tenth People’s Hospital, School of Medicine, Tongji University, Shanghai, China
General Information

Meeting Venue
Ludwig Maximilians University Munich
Hospital Großhadern, G12 (Conference Room)
Marchioninistrasse 15
D-81377 Munich, Germany

Airport / Train
Munich's public transport infrastructure is one of the most efficient in the world. The closest airport is Munich Airport, located at 45 kilometres from the venue. Thanks to numerous continental and intercontinental destinations, guests from around the world can reach the Bavarian capital by direct flight. When arriving at the airport, you can take the public transportation to the conference. You will find the suburban train (S-Bahn) lines S1 and S8 directly below the central area of the Munich Airport. Depending on the route you choose, the ride from the airport to Meeting Venue takes between 45 and 60 minutes. Transport by taxi directly to the Hospital costs about 95 Euro.

Documents and badges
The congress documents should be collected on site at the registration desk. Name badges must be worn at all time during the course.

Language
The official language will be English. No simultaneous translation will be provided.

Refreshment breaks and lunches
Coffee breaks and lunches are included in the registration fee.

Registration fees Munich / Online
Online Course fee will be 300 €
Registration fee will be 600 Euro and includes:
• Administration to all lectures and hands on sessions
• Access to the commercial exhibition
• All refreshment breaks and lunches during the congress
• Entrance to the Social Dinner on Thursday
• Registration does not include accommodation
Note: The number of participants being present in the lecture room is limited!
The registration fee will increase by 100 Euro after August the 20th and 150 Euro by onsite registration.

Payment method
Payment will be made by bank transfer to Prof. Dr. D.-A. Clevert
Deutsche Bank 24 Berlin
Bank account: CEUS COURSE
IBAN DE 05 100 700 240 922219101
Swift DEUT DEBBER

Cancellation policy
All cancellations must be notified in writing to the Organizing Secretary.
Refunds will be processed after the course. Requests or refunds after the course will not be considered.

Meeting / Organizing secretary
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D-81377 Munich
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Contact: Dirk.Clevert@med.uni-muenchen.de

Where to stay
A wide range of accommodation will be available for your selection. All hotels are located within a reasonable distance from the conference, with good transport links across the city.

Recommended hotels:
Hotel Neumayer, Heiglhofstr. 18, 81377 Munich, Tel.: +49-89/741144-0
Hotel am Klinikum, Würmtalstr. 99, 81375 Munich, Tel.: +49-89/125930-0
Hotel Thalmaier, Heiglhofstr. 3, 81377 Munich, Tel.: +49-89/741163-0

www.CEUS-course.eu www.ceuscampus.de
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