

# International Course in Contrast Enhanced Ultrasound

## Hepatic and Extrahepatic Indications



**Pre-Course: October 13<sup>th</sup> 2021**

**CEUS Course: October, 14<sup>th</sup> – 16<sup>th</sup> 2021**

**Course fees:**

Standard fee will be 600 €

Online Course fee will be 300 €

**To register visit: [www.CEUS-course.eu](http://www.CEUS-course.eu)**

**[www.ceuscampus.de](http://www.ceuscampus.de)**



# International Course in Contrast Enhanced Ultrasound

## Hepatic and Extrahepatic Indications

**Course Directors: HP Weskott and DA Clevert**

Pre-Course: October 13<sup>th</sup> 2021

**CEUS Course: October, 14<sup>th</sup> – 16<sup>th</sup> 2021**

Munich – Germany

Interdisciplinary Ultrasound-Center, Department of Clinical Radiology

University of Munich-Großhadern Campus, Munich, Germany



13<sup>th</sup>  
October  
–  
16<sup>th</sup>  
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## **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 and daily fever measurement of all participants in the morning and evening. 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.

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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 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: Christian Greis, Bracco

14:25 - 14:50: , Canon Medical Systems

14:50 - 15:15: , Samsung

15:15 - 15:50: , Philips

15:50 - 16:15: , 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

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## 1<sup>st</sup> 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: What to do, if...

**Stock**

09:55-10:05: Discussion

10:05-10:20: Kinetics: Liver, Lung, Spleen

**Weskott**

10:20-10:30: Kinetics: Kidneys

**Stock**

10:30-10:35: Discussion

**10:35-10:50: Coffee break**

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**Course:**

## **Morning Session:**

**Chair: DA Clevert**

10:50-11:05: How to start my first examination

and documentation

**Clevert**

11:05-11:35: Benign FLL

**Weskott**

11:35-11:55: Liver metastases

**Sidhu**

11:55-12:05: Discussion

12:05-12:45: Interactive liver quiz

**Clevert**

**12:45-13:45: Lunch**

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## Afternoon Session:

Chair: S Wilson

### 13:45-14:30: WORKSHOPS

14:30-14:50: Diffuse liver disease **Weskott**

14:50-15:10: Development of liver abscesses **Kunze**

15:10-15:40: HCC, ICC and LI-RADS **Wilson**

15:40-16:00: A LI-RADS Quiz **Kono**

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

16:20-16:40: CEUS in liver interventions: RFA, Microwave, IRE **Leen**

16:40-16:55: Gallbladder disease **Weskott**

16:55-17:00: Discussion

### 17:00-17:15: Coffee break

17:15-17:35: CEUS in pregnant women **Clevert**

17:35-18:00: Breast ultrasound **NN**

18:00-18:20: HIFU therapy of uterine fibroids **Clevert**

18:20-18:30: Discussion

### 19:30: Social Dinner

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## 2<sup>nd</sup> 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 renal lesions **Stock**

09:40-10:00: Cystic renal lesions **Clevert**

10:00-10:05: Discussion

10:05-10:20: Infectious renal diseases **Weskott**

10:20-10:40: CEUS in renal interventions **Clevert**

10:40-11:00: Diagnosis of vesicoureteral reflux **Clevert**

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

11:20-11:45: Solid pancreatic masses **D`Onofrio**

11:45-12:15: Cystic pancreatic masses **D`Onofrio**

12:15-12:35: Acute and chronic pancreatitis **Pachmann**

12:35-12:55: IRE and pancreatic interventions **Leen**

12:55-13:15: Contrast enhanced Ultrasound in gastric cancer **Huang**

13:15-13:20: Discussion

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

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# Course:

## 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**

15:25-15:45: CEUS in Pancreatic Transplantation

**Swensson**

15:45-16:05: CEUS in Paediatric 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: Updates on CEUS for management and evaluation

of carotid plaque

**Huang**

18:00-18:10: Discussion

**18:10-18:45: WORKSHOP**

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## 3<sup>rd</sup> Day More Extra-hepatic Indications

### Morning Session:

Chair: HP Weskott

09:00-09:20: CEUS in splenic diseases

**Sidhu**

09:20-09:40: CEUS and trauma

**Sidhu**

09:40-09:50: Discussion

09:50-10:10: Diffuse and focal thyroid diseases

**Cantisani**

10:10-10:30: Role of ultrasound guided radiofrequency ablation

for thyroid nodule treatment

**Radzina**

10:30-10:40: Discussion

10:40-11:05: Sonoporation gene therapy– an option in future?

**Feinstein**

11:05-11:35: Plane wave US and new CA: What to expect in future?

**Burns**

11:35-11:45: Discussion

### **11:45-12:00: Coffee break**

12:00-13:00: Final interactive quiz

**Clevert**

13:00: Adjourn

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## **Workshops:**

**14.10.2021**

### **13:45-14:30: WORKSHOPS**

1. Tips and Tricks
2. CEUS in evaluation of the bowel

**Weskott**

**Wilson**

**15.10.2021**

### **14:20-14:45: WORKSHOP**

1. Interactive quiz of liver lesions
2. CEUS in renal diseases (case study)

**Clevert**

**Stock**

### **18:10-18:45: WORKSHOP**

1. Clinical cases from Riga
2. Vascular cases

**Radzina**

**Cantisani**

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## 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

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# Faculty Board

## **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

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# Speakers

## **Prof. Dr. Peter Burns**

Sunnybrook Health Sciences Centre, Toronto, Canada

## **Prof. Dr. Thom Fischer**

Interdisciplinary Ultrasound-Center, Department of Radiology, Charité-University Berlin, Germany

## **Prof. Dr. Jordan Swensson**

Indiana University School of Medicine Department of Radiology and Imaging

## **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

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# Speakers

## **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

## **Prof. Li-Xia Zhao (NN)**

Department of Medical Ultrasound, Shanghai Tenth People's Hospital, Tongji University School of Medicine, Shanghai 200072, China

## **Dr. Carsten Pachmann**

Internistenpraxis-Osterstrasse, Hamburg, Germany

## **Prof. Dr. Maija Radzina**

Riga Stradins University, Latvia

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# 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 75 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 20<sup>th</sup> 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

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### **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.

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## **Meeting / Organizing secretary**

CEUS COURSE

Hospital Großhadern

Marchioninistrasse 15

D-81377 Munich

Tel.: +49-173 3637322, Fax: +49- 89 / 44007-8832

**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](http://www.CEUS-course.eu)**

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