

# International Course in Contrast Enhanced Ultrasound

## Hepatic and Extrahepatic Indications



**Pre-Course: October 18<sup>th</sup> 2023**

**CEUS Course: October, 19<sup>th</sup> – 21<sup>th</sup> 2023**

**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 18<sup>th</sup> 2023

**CEUS Course: October, 19<sup>th</sup> – 21<sup>th</sup> 2023**

Munich – Germany

Interdisciplinary Ultrasound-Center, Department of Clinical Radiology

University of Munich-Großhadern Campus, Munich, Germany



18<sup>th</sup>  
October  
–  
21<sup>th</sup>  
October  
2023

18<sup>th</sup>  
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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 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**

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October  
2023

# Pre – Course:

## Pre – Course:

### Afternoon Session:

**Chair: HP Weskott**

**14:00 - 16:00: CEUS: Latest technical developments**

14:00 - 14:10: ,

14:10 - 14:20: ,

14:20 - 14:30: ,

14:30 - 14:40: ,

14:40 - 14:50: ,

14:50 - 15:00: ,

15:00 - 15:10: ,

15:10 - 15:20: ,

15:20 - 15:30: ,

15:30 - 15:40: ,

15:40 - 15:50: ,

**16:00 - 18:00: Industry round table discussion**

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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: The future developments of bubbles

**Greis**

09:25-09:40: What to do, if...

**Stock**

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**

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Course:

## 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**

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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 and ICC

**Wilson**

15:40-16:00: LI-RADS

**Kono**

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

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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 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 **Weskott**

10:20-10:40: IRE and pancreatic interventions **Leen**

10:40-11:00: Solid renal lesions **Stock**

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

11:20-11:45: Contrast enhanced Ultrasound in gastric cancer **Huang**

11:45-12:15: Cystic renal lesions **Clevert**

12:15-12:35: Infectious renal diseases **Weskott**

12:35-12:55: CEUS in renal interventions **Clevert**

12:55-13:15: Ultrasound diagnosis of vesicoureteral reflux **Darge**

13:15-13:20: Discussion

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

Course:



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# Course:

## Afternoon Session:

Chair: D.-A. Clevert

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

14:45-15:10: CEUS and Transplant Kidney

Fischer

15:10-15:40: CEUS and Transplant Liver

Clevert

15:40-16:05: Novel aspects of quantifying the blood supply of  
HCC and potential treatment options

Averkiou

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

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

**Morning Session:**

**Chair: HP Weskott**

**09:00-11:30: Europe meets China**

**Live**

09:00-09:40: **Education**

Liver CEUS in China: the recent progress and future directions

**Xu**

**Sidhu**

09:40-09:50: Discussion

09:50-10:30: **Plaque Vascularization**

**Huang  
Clevert**

10:30-10:40: Discussion

10:40-11:20: **Basic Thyroid and AI thyroid ultrasound**

**Cantisani  
Stock**

11:20-11:30: Discussion

**11:30-11:50: Coffee break**

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

**Morning Session:**

**Chair: HP Weskott**

11:50-12:10: Role of ultrasound guided radiofrequency ablation  
for thyroid nodule treatment

**Radzina**

**12:10-13:20: The future of ultrasound**

12:10-12:30: Sonoporation gene therapy– an option in future?

**Feinstein**

12:30-12:50: CEUS in Paediatric and Transplantation

**Franke**

12:50-13:05: Toy or tool, AI in ultrasound

**Clevert**

13:05-13:20: Discussion and **Adjourn**

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# Workshops:

## Workshops:

**19<sup>th</sup> October 2023**

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

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

**Weskott**

**Wilson**

**20<sup>th</sup> October 2023**

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

1. Interactive quiz of liver lesions
2. Lymph nodes

**Clevert**

**Weskott**

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

1. Clinical cases from Riga
2. LI-RADS-Quiz

**Radzina**

**Kono**



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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

**Ass. Prof. Mike Averkiou**

Averkiou Lab - Department of Bioengineering, University of Washington

**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

**Prof. Dr. Konrad Stock**

Klinikum rechts der Isar der TU München, Abt. für Nephrologie, II. Med. Klinik, Germany

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# Speakers

## **Prof. Dr. Stephanie Wilson**

Department of Radiology, Calgary, 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

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

Riga Stradins University, Latvia

## **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



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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 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 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

Swift DEUT DE DBBER

### **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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