

# International Course in Contrast Enhanced Ultrasound

## Hepatic and Extrahepatic Indications



**Pre-Course: October 27<sup>th</sup> 2024**

**CEUS Course: October, 28<sup>th</sup> – 30<sup>th</sup> 2024**

**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 27<sup>th</sup> 2024

**CEUS Course: October, 28<sup>th</sup> – 30<sup>th</sup> 2024**

Munich – Germany

Interdisciplinary Ultrasound-Center, Department of Clinical Radiology

University of Munich-Großhadern Campus, Munich, Germany



27<sup>th</sup>  
October  
–  
30<sup>th</sup>  
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2024

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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  
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# Pre – Course:

## Pre – Course:

### Afternoon Session:

**Chair: HP Weskott**

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

14:00 - 14:30: Luca Frazzoli, Bracco

14:30 - 14:45: Christian Grill, Samsung

14:45 - 15:00: Thanasis Loupas, Philips

15:00 - 15:15: Kazimierz Kukulski, FUJIFILM Healthcare

15:15 - 15:30: Rachid Redouane, Mindray

15:30 - 15:45: Pierre Llopis, Siemens

15:45 - 16:00: Florence Labb, Esaote

16:00 - 16:15: Anke Dombrowski, GE

16:15 - 16:30: , Canon

16:30 - 16:45: , SonoScape

**16:15 - 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: May CEUS help? **Weskott**

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

15:10-15:40: HCC and ICC Does CEUS help in its differentiation? **Wilson**

15:40-16:00: LI-RADS Is it mandatory for characterization of FLL? **Kono**

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

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

16:40-17:00: Another Feature of Ultrasound: Drug Delivery and  
Immune Activation **Lee**

16:55-17:00: Discussion

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

17:15-17:35: CEUS in Gallbladder disease **Weskott**

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

18:00-18:20: CEUS in pregnant women **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
<b>11:00-11:20: Coffee break</b>	
11:20-11:45: Contrast enhanced Ultrasound in gastric cancer relevance?	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	
<b>13:20-14:20: Lunch</b>	



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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: CEUS and Transplant Pancreas

**Jung**

16:05-16:20: Discussion

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

16:35-17:20: Diseases: 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: Clinical Impact and Consequences?**

**Huang  
Clevert**

10:30-10:40: Discussion

10:40-11:20: **CEUS in Pediatric Diseases**

**Dong**

**Franke**

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: Diffuse and focal thyroid diseases

**Cantisani**

12:10-12:30: Role of ultrasound guided radiofrequency ablation  
for thyroid nodule treatment

**Radzina**

12:30-12:45: Parathyroid gland

**Jung**

12:30-12:45: CEUS in lymph node characterization?

**Weskott**

## 12:45-13:40: The future of ultrasound

12:45-13:05: Sonoporation gene therapy– an option in future?

**Feinstein/**

13:05-13:20: Toy or tool, AI in ultrasound

**Clevert**

13:20-13:30: Discussion and **Adjourn**

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# Workshops:

## Workshops:

**28<sup>th</sup> October 2024**

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

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

**Weskott**

**Wilson**

**29<sup>th</sup> October 2024**

**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

**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**

Konstanz, Germany

## **Prof. Dr. Michael Jung**

Interdisciplinary Ultrasound-Center, Department of Radiology, University of Regensburg, 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

## **Prof. Dr. Yi Dong**

Chief of Department of Ultrasound, Xinhua Hospital, Shanghai Jiao Tong University School of Medicine  
Shanghai, China



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# General Information

## Meeting Venue

Ludwig Maximilians University Munich

St. Vincent House (Conference Room)

Nußbaumstraße 5

80336 Munich

## Airport / Train

Munich's public transport infrastructure is one of the most efficient in the world. The closest airport is Munich Airport, located at 40 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 costs about 16 Euro. You will find the suburban train (S-Bahn) lines S1 and S8 directly below the central area of the Munich Airport going downtown. 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 Conference Center costs about 130 Euro.

## **Documents**

The congress documents should be collected on site at the registration desk.

## **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 25<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

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### **Cancellation policy**

Cancellation is possible until 10<sup>th</sup> September 2024 for an administration fee of 50 Euro. For cancellations after 10<sup>th</sup> September 2024, an administration fee of 50% of the registration fee is due. In the event of a no-show, the full participation fee must be paid. All cancellations must be notified in writing to the Organizing Secretary. 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

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