



## International Course in Contrast Enhanced Ultrasound

### Hepatic and Extrahepatic Indications



Pre-Course: October 19<sup>th</sup> 2022

**CEUS Course: October, 20<sup>th</sup> – 22<sup>th</sup> 2022**

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)



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October  
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## International Course in Contrast Enhanced Ultrasound

### Hepatic and Extrahepatic Indications

Course Directors: HP Weskott and DA Clevert

Pre-Course: October 19<sup>th</sup> 2022

**CEUS Course: October, 20<sup>th</sup> – 22<sup>th</sup> 2022**

Munich – Germany

Interdisciplinary Ultrasound-Center, Department of Clinical Radiology

University of Munich-GroÙhadern Campus, Munich, Germany



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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 live 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 live 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.

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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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## Pre – Course:

### 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		

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## Course:

### 1<sup>st</sup> Day

#### Morning Session:

**Chair: DA Clevert**

08:00-09:00: Registration		
09:00-09:05: Welcome address		<b>Weskott / Clevert</b>
09:05-09:25: Bubbles and how to talk to them		<b>Burns</b>
09:25-09:40: The future developments of bubbles		<b>Greis</b>
09:40-09:55: Discussion		
09:55-10:30: Kinetics: Liver, Lung, Spleen, Kidney		<b>Weskott</b>
10:30-10:35: Discussion		
<b>10:35-10:50: Coffee break</b>		

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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...	<b>Clevert</b>
11:10-11:40: Benign FLL	<b>Weskott</b>
11:40-12:00: Liver metastases	<b>Sidhu</b>
12:00-12:10: Discussion	
12:10-12:45: Interactive liver quiz	<b>Clevert</b>
<b>12:45-13:45: Lunch</b>	

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## Course:

### Afternoon Session:

Chair: S Wilson

<b>13:45-14:30: WORKSHOPS</b>	
14:30-14:50: Diffuse liver disease	<b>Weskott</b>
14:50-15:10: Development of liver abscesses	<b>Kunze</b>
15:10-15:40: HCC, ICC and LI-RADS	<b>Wilson</b>
15:40-16:00: LI-RADS Quiz	<b>Kono</b>
16:00-16:20: Sonazoid: Recommendations & Consensus statements.	<b>Lee</b>
16:20-16:35: CEUS in pregnant women	<b>Clevert</b>
16:35-16:55: CEUS in liver interventions: RFA, Microwave, IRE	<b>Leen</b>
16:55-17:00: Discussion	
<b>17:00-17:15: Coffee break</b>	
17:15-17:35: Gallbladder disease	<b>Weskott</b>
17:35-18:00: CEUS in splenic diseases	<b>Sidhu</b>
18:00-18:20: CEUS and trauma	<b>Clevert</b>
18:20-18:30: Discussion	
<b>19:30: Social Dinner</b>	

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## Course:

### 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 **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**

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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**

15:25-16:05: 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**

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## Course:

### 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: Plaque Vascularization

Huang / Clevert

09:40-09:50: Discussion

09:50-10:30: Education

Hui-Xiong Xu / Sidhu

10:30-10:40: Discussion

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

Cantisani / Wang

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

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: Plane wave US and new CA: What to expect in future?

Burns

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

Clevert

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

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## Workshops:

### Workshops:

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

1. Tips and Tricks

Weskott

2. CEUS in evaluation of the bowel

Wilson

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

1. Interactive quiz of liver lesions

Clevert

2. CEUS in renal diseases (case study)

Stock

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

1. Clinical cases from Riga

Radzina

2. Vascular cases

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. 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

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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

**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



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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.

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### 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

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**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, Heighhofstr. 18, 81377 Munich, Tel.: +49-89/741144-0

Hotel am Klinikum, Würmtalstr. 99, 81375 Munich, Tel.: +49-89/125930-0

Hotel Thalmaier, Heighhofstr. 3, 81377 Munich, Tel.: +49-89/741163-0

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

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