



International Course in Contrast Enhanced Ultrasound

Part I: Liver and Kidney

Course Director: HP Weskott

6th - 9th November 2008

Hannover - Germany

Central Ultrasound Department

Klinikum Region Hannover, Siloah Hospital

Pre – Course: November, 6th

Morning Session:

Afternoon Session: Chair: C Nolsøe

10:00 – 17:00: US Equipment, Contrast Agents

10:00 -12:00 CEUS: Technical Solutions

10:00 - 10:15	General Electric Healthcare
10:15 - 10:30	Philips
10:30 – 10:45	Siemens
10:45 – 11:00	Toshiba
11:00 – 11:15	Esaote

14:00 – 17:00 New Developments

14:00 – 14:15	Bracco
14:15 – 14:30	Esaote
14:30 – 14:45	Toshiba
14:45 – 15:00	Siemens
15:00 – 15:15	Philips
15:15 – 15:30	General Electric Healthcare

11:15 – 12:30: Hands on 

00:30pm – 02:00 Lunch 



15:30 -15:30 Break

15:30 – 17:00: Hands on 

Friday, November 7th

Morning Session. Chair: HP Weskott, L Thorelius

09: 15 – 09: 30	Welcome address, Course Introduction	Weskott
09: 30 – 10: 00	Bubbles and how to talk to bubbles: “languages”	Burns 
10: 00 – 10: 15	Biological & adverse reactions: European Experience	
10: 15 – 10: 30	Biological & adverse reactions: American Experience	
10: 30 – 10: 45:	Break 	
10: 45 – 11: 00	Liver vasculature, kinetics	Weskott
11: 00 - 11: 15	Documentation	Thorelius
11: 15 - 11: 20	Discussion	all
11: 20 - 11: 35	Why & how to quantify tissue enhancement	Lassau
11: 35 -11: 40	Discussion	
11: 40 – 12: 00	How reliable is B-mode imaging in FLL characterization	Gilja
12: 20 - 01: 30	Lunch 	

Afternoon Session. Chair: T Albrecht

01: 30 – 0: 50	Examination technique (live)	Albrecht
01: 50 - 02: 05	Mistakes and how to avoid them	Piscaglia 
02: 05 – 02: 25	EFSUM Guidelines: Liver	Leen 
02: 25 - 04: 10	Hands on	 
04: 10 – 04: 25	Liver Trauma: Role of CEUS	Thorelius
04: 25 – 04: 30	Discussion	
04: 30 – 04: 45	Tumor Neovascularization	Albrecht
04: 55 – 05: 05	Detection of FLL	Albrecht
05: 05- 05: 10	Discussion	
05: 10 - 05: 30	Test	
0730 – 1000	Dinner	

Saturday, November 8th

Morning Session. Chair: E Leen, F Piscaglia

09: 00 - 09: 15	Benign Liver Lesions: Learning from the Pathologist	
09: 15 – 09: 30	Benign Liver Lesions: CT, MR, PET	Albrecht
09: 30 – 09: 45	Benign Liver Lesions: CEUS	Gilja
09: 45 - 09: 50	Discussion	
09: 50 – 10: 05	Metastatic Lesions: Learning from the Pathologist	
10: 05 – 10: 20	Metastatic Liver Lesions: CT, MR, PET	Albrecht
10: 20 – 10: 25	Discussion	
10: 25 – 10: 30	Break	
10: 30 – 10: 50	Metastatic Liver Lesions: CEUS	Weskott
10: 50 – 10: 55	Discussion	
10: 55 – 11: 15	Discrepancies in imaging modalities	Jördens
11: 15 – 11: 30	IO CEUS how to do	Leen
11: 30 – 11: 45	IO CEUS: what do we gain?	Leen
11: 45 – 12: 05	Monitoring chemotherapy	Lassau
12: 05 – 12: 20	Infectious liver disease	Thorelius
12: 20 – 01: 30	Lunch	

Afternoon Session. Chair: F Tranquart

N 01: 30 - 03: 15	Hands on		
03: 30 – 03: 35	Discussion		
03: 35 – 03: 50	HCC, CCC: Learning from the Pathologist	NN	
03: 50 - 04: 10	HCC, CCC: CT, MR, PET	Albrecht	
04: 10 – 04: 30	HCC, CCC: CEUS	Piscaglia	
Förster			
04: 30 - 04: 40	Discussion		
04: 40 – 04: 55	Economical and safety aspects: The French Study		Tranquart
04: 55 - 05: 10	New techniques: 3-D, 4-D	Weskott	
05: 10 - 05: 15	Discussion		
05: 15 – 05: 35	Test		
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08: 00 - 10: 00:	Dinner		
Weskott/Höpfer			

Sunday, November 9th

Morning Session. Chair: HP Weskott, C Nolsøe

09: 00 – 09: 15	Monitoring RFA, Microwave ablation	Liang Ping
09: 15 – 09: 35	CEUS guided interventions: Why and how. EFSUMB Guidelines	Nolsøe
09: 35 – 09: 40	Discussion	
09: 40 – 09: 55	Renal tumors: Learning from the Pathologist	Förster
09: 55 – 10: 05	CEUS examination technique: Kidneys	Fischer
10: 05 – 10: 20	Break 	
10: 20 – 10: 35	Renal tumors: CT, MR	Shin
10: 35 – 10: 55	Renal tumors: CEUS	Weskott
10: 55 – 11: 00	Discussion	
11: 00 – 11: 15	Infectious and ischemic renal diseases: CEUS	Weskott
11: 15 – 11: 20	Discussion	
11: 20 – 11: 40	CEUS in transplant kidney	Fischer
11: 40 - 11: 45	Discussion	
11: 45 – 12: 00	Renal trauma: Role of CEUS	Thorelius
12: 00 - 12: 20	Vesico-uretral reflux	Darge 
12: 20 -12: 25	Discussion	
12: 25 – 01: 30	Lunch 	

Afternoon Session.

01: 30 – 03: 20: Hands on  

03: 20 – 03: 40: Test

03: 40: Adjourn

Faculty Board

Prof. Thomas Albrecht

Klinik für Radiologie und Nuklearmedizin, Campus Benjamin, Universitätsmedizin Charite, Freie Universität und Humboldt Universität Berlin, Germany

Prof. Odd Helga Gilja

Dept Gastroenterology Bergen, Norway

Prof. Eddie Leen

Clinical Sciences Centre, Imperial College London, UK

Prof. Christian Nolsøe

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Spec. Medicina Interna. Dottore Di Ricerca In Ultrasonologia in Medicina, Dirigente Medico I Livello, Bologna, Italy

Prof. Lars Thorelius

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Dr. Hans-Peter Weskott

Central Ultrasound Dept. Klinikum Region Hannover, Siloah Hospital, Hannover, Germany

Speakers and Instructors

Prof. Peter Burns

Dept Medical Biophysics University of Toronto, Canada

Prof. Kassa Darge

Children`s Hospital, Philadelphia, USA

Prof. Steve Feinstein

Dept Cardiology, Rush University, Chicago, USA

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Charite University Hospital, Campus Charite Mitte, Humboldt-Universität zu Berlin, Department of Radiology, Berlin

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Prof. Liang Ping

Department of Ultrasound, Chinese PLA General Hospital, Beijing 100853, China

PD Dr. Hoen-oh Shin

Radiology Dept Medical School Hannover, Germany

Prof. François Tranquart

Unité Fonctionnelle Ultrasons Directeur CIT, Tour, France

Dr. Heiko Andreesen

Central Ultrasound Dept Klinikum Region Hannover, Siloah Hospital, Hannover, Germany

Hands on workshops:

Depending on the number of participants, there will be at least 10 training rooms with 5 participants per instructor. If possible each participant will be selected for the training group equipped with the US machine, which was indicated at the time of registration. If no machine was mentioned the participant will be added to a group the organizers chose.

Beside the medical instructor there will be a representative of each US Company to help with special questions that come up during the workshop.

In each training group a PC with be available on with quantitative analysis and parametric imaging will be demonstrated.

Device /Company	Trainer
Siemens 1	Albrecht
Siemens 2	Thorelius
Toshiba 1	Fischer
Toshiba 2	Lassau
Philips 1	Leen
Philips 2	Nolsøe
GE Healthcare 1	Weskott
GE Healthcare 2	Tranquart
NN 1	Gilja
Esaote	Piscaglia

General Information

Hannover

Hannover is the capital of Lower Saxony, located in the north of Germany. It hosts the world's leading international industrial trade fair and CEBIT, the world's biggest computer fair. Hannover Airport has many direct flights from major European cities and can also be reached via Frankfurt, Munich or Berlin.

Close to the hospital you find Lake Maschsee, an ideal location for a jog or walk before or after the course (it has a perimeter of about 6,7km)

CEUS Course location

The course will be held at Siloah Hospital, Roesebeckstr. 15, 30449 Hannover. A taxi or train will take about 10min from Hannover's main railway station and about 30-40 minutes by car from Hannover-Langenhagen Airport.

Hotels

CME Credits

CME credits will be documented on a daily basis.

Refunds

Refunds will not be issued, unless required prior to September 1st 2008. No exceptions will be made to this policy.

Course Information

Registration fee: 480 Euro

Including: Hand outs, lunch and dinner on all days (6th-9th), coffee breaks.

The course is accredited by the EFSUMB and is planned to earn CME credits by the European Accreditation Council for Continuing Medical Education Institution of the UEMS .

Further and updated information: www.ceus-course.eu