



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

0915 – 0930:	Welcome address, Course Introduction	Weskott
0930 – 1000:	Bubbles and how to talk to bubbles: “languages”	Burns 
1000 – 1015:	Biological & adverse reactions: European Experience	Piscaglia
1015 – 1030:	Biological & adverse reactions: American Experience	Feinstein 
1030 – 1045:	Break 	
1045 – 1100:	Liver vasculature, kinetics	Weskott
1100 - 1115:	Documentation	Thorelius
1115 - 1120:	Discussion	all
1120 - 1135:	Why & how to quantify tissue enhancement	Lassau
1135 -1140:	Discussion	
1140 – 1200:	How reliable is B-mode imaging in FLL characterization	Gilja
1220 - 0130:	Lunch 	

Afternoon Session. Chair: T Albrecht

0130 – 0150:	Examination technique (live)	Albrecht
0150 - 0205:	Mistakes and how to avoid them	Piscaglia
0205 – 0225:	EFSUM Guidelines: Liver	Leen
0225 - 0410:	Hands on	 
0410 – 0425:	Liver Trauma: Role of CEUS	Thorelius
0425 – 0430:	Discussion	
0430 – 0445:	Tumor Neovascularization	Albrecht
0455 – 0505:	Detection of FLL	Albrecht
0505- 0510:	Discussion	
0510 - 0530:	Test	
0730 – 1000:	Dinner	




Saturday, November 8th

Morning Session. Chair: E Leen, F Piscaglia

0900 - 0915:	Benign Liver Lesions: Learning from the Pathologist	NN
0915 – 0930:	Benign Liver Lesions: CT, MR, PET	Albrecht
0930 – 0945:	Benign Liver Lesions: CEUS	Gilja
0945 - 0950:	Discussion	
0950 – 1005:	Metastatic Lesions: Learning from the Pathologist	Förster
1005 – 1020:	Metastatic Liver Lesions: CT, MR, PET	Albrecht
1020 – 1025:	Discussion	
1025 – 1030:	Break 	
1030 – 1050:	Metastatic Liver Lesions: CEUS	Weskott
1050 – 1055:	Discussion	
1055 – 1115:	Discrepancies in imaging modalities	Jördens
1115 – 1130:	IO CEUS how to do	Leen
1130 – 1145:	IO CEUS: what do we gain?	Leen
1145 – 1205:	Monitoring chemotherapy	Lassau
1205 – 1220:	Infectious liver disease	Thorelius
1220 – 0130:	Lunch 	

Afternoon Session. Chair: F Tranquart


0130 - 0315: Hands on

0330 – 0335:	Discussion	 
0335 – 0350:	HCC, CCC: Learning from the Pathologist	NN
0350 - 0410:	HCC, CCC: CT, MR, PET	Albrecht
0410 – 0430:	HCC, CCC: CEUS	Piscaglia
0430 - 0440:	Discussion	
0440 – 0455:	Economical and safety aspects: The French Study	Tranquart
0455 - 0510:	New techniques: 3-D, 4-D	Weskott
0510 - 0515:	Discussion	
0515 – 0535:	Test	
0800 - 1000:	Dinner	

Weskott/Höpfer

Sunday, November 9th

Morning Session. Chair: HP Weskott, C Nolsøe

0900 – 0915:	Monitoring RFA, Microwave ablation	Liang Ping
0915 – 0935:	CEUS guided interventions: Why and how. EFSUMB Guidelines	Nolsøe
0935 – 0940:	Discussion	
0940 – 0955:	Renal tumors: Learning from the Pathologist	Förster
0955 – 1005:	CEUS examination technique: Kidneys	Fischer
1005 – 1020:	Break 	
1020 – 1035:	Renal tumors: CT, MR	Shin
1035 – 1055:	Renal tumors: CEUS	Weskott
1055 – 1100:	Discussion	
1100 – 1115:	Infectious and ischemic renal diseases: CEUS	Weskott
1115 – 1120:	Discussion	
1120 – 1140:	CEUS in transplant kidney	Fischer
1140 - 1145:	Discussion	
1145 – 1200	Renal trauma: Role of CEUS	Thorelius
1200 - 1220:	Vesico-uretral reflux	Darge 
1220 -1225:	Discussion	
1225 – 0130:	Lunch 	

Afternoon Session.

0130 – 0320: Hands on



0320 – 0340: Test

0340: 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

Deptm. Gastroenterology Bergen, Norway

Prof. Eddie Leen

Clinical Sciences Centre, Imperial College London, UK

Prof. Christian Nolsøe

Deptm of Radiology, Køge Hospital, University of Copenhagen, Denmark

Prof. Fabio Piscaglia

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

Prof. Lars Thorelius

Herlev Hospital, Copenhagen University, Denmark

Dr. Hans-Peter Weskott

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

Speakers and Instructors

Prof. Peter Burns

Deptm Medical Biophysics University of Toronto, Canada **Prof. Kassa Darge**

Children`s Hospital, Philadelphia, USA

Prof. Steve Feinstein

Deptm Cardiology, Rush University, Chicago, USA

Dr. Thomas Fischer

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

Dr. Christine Förster

Deptm.Pathology, Klinikum Region Hannover, Nordstadt Hospital, Hannover, Germany

Dr. Steffen Jördens

Radiology Deptm. Medical School Hannover, Germany

Dr. Natalie Lassau

Service d'echographie, Departement d'imagerie, Institut Gustave-Roussy, 39, rue Camille-Desmoulins 94 805 Villejuif Cedex.

Prof. Liang Ping

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

PD Dr. Hoen-oh Shin

Radiology Deptm. Medical School Hannover, Germany

Prof. François Tranquart

Unité Fonctionnelle Ultrasons Directeur CIT, Tour, France

Dr. Heiko Andreesen

Central Ultrasound Deptm. 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

Hanover

Hanover 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 a computer fair. Hanover 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 Hanover. A taxi or train will take about 10min from Hanover'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