



International Course in Contrast Enhanced Ultrasound

Part II: Update: Liver & extra-hepatic use of US
contrast agents, new developments

Course Director: HP Weskott

Pre-Course: 3rd November 2011

3rd - 6th November 2011

Hannover - Germany

Central Ultrasound Department

Klinikum Region Hannover, Siloah Hospital

Dear colleagues,

After a successful first CEUS course (part one) in November 2010, I would like to invite you to attend the follow up course to be held in Hannover from November 3rd to 6th 2011.

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 part II is aiming at two goals: deepening the understanding of CEUS in liver and renal diseases and secondly demonstrating the wide range of extra-hepatic indications for using US contrast agents. These new indications have been subject to the EFSUMB Guidelines which just recently have been published. Again well known European radiologists and internists in this field will give lectures and train small groups of attendees in hands-on-sessions. During this course there will be again time for individual training on the US machines and to work on clinical cases – from easy to difficult to interpret. At the end of each day there will be a dedicated session for discussing cases you brought with you or mailed us with the experts. Additionally representatives from the industry will inform on the pre-course day you about latest and future technical developments, followed 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.

I wish you a successful educational course and a joyful stay in Hannover

Dr. Hans-Peter Weskott

Course Director



Pre – Course: Thursday, November, 3rd

Afternoon Session: Chair: HP Weskott

14:00 – 16:10: Contrast Agents, US Equipment

Registration: 12:00 – 17:00

14:00 – 16:10 CEUS: Latest technical developments

14:00 – 14:15	Christian Greis, Bracco
14:15 – 14:30	Matthew Bruce, SuperSonics Imaging
14:30 – 14:45	Wesam Ibrahim, Toshiba
14:45 – 15:00	Peter Hildebrandt, Siemens
15:00 – 15:15	Ludwig Isken, Philips
15:15 – 15:30	Horst-Peter Johae, GE Healthcare
15:30 – 15:45	Bibby Ellison, Hitachi
15:45 – 16:00	Peter Wlczek, TomTec
16:00 – 16:10	Discussion

Friday, November 4th

Morning Session. Chair: D Cosgrove, C Greis

16:10 - 16:25 Coffee Break



16:25 - 17:45: Hands on: Documentation, fusion imaging, CEUS and small parts, TIC, etc

0800 – 0900: Registration

0900 – 0905:	Welcome address	Weskott
0905 – 0910:	Course Introduction	Weskott
0910 – 0930:	CEUS Guidelines & Recommendations 2011	Cosgrove
0930 – 0940:	Off label use, so what? Legal & clinical aspects	Greis/Höpfner
0940 – 0950:	Discussion	
0950 – 1000:	High frequency TX and CEUS	Weskott
1000 – 1020:	Tumor neovascularization in imaging	Palmowski
1020 – 1040:	Coffee Break	
1040 – 1100:	HCC: Still a challenge - recommendations	Wilson
1100 – 1115:	FNH vs. hepatic adenoma: How reliable is CEUS?	Stock
1015 – 1130:	The transplant liver	Clevert
1130 - 1145:	Misinterpretation of FLL in CEUS	Wilson

1145 – 1155: Discussion

all

BASICS, LIVER, GALLBLADDER & KIDNEY



Afternoon Session. Chair: S Wilson, E Leen



1200 - 1255: Case discussions

1300 - 1400: Lunch

1410 – 1430:	Fusion imaging , what we gain	Höpfner
1430 – 1450:	Blunt abdominal trauma	Mattli
1450 – 1510:	Gallbladder diseases	Weskott
1510 – 1525:	Imaging the biliary system	Pachmann
1525 – 1540:	Coffee break	
1540 – 1555:	Inflammatory renal diseases	Weskott
1555 – 1620:	Cystic and solid renal tumors	Stock/Weskott
1620 - 1640:	The transplant kidney	Fischer
1640 – 1645:	Discussion	
1650 - 1735:	Case discussions	



1735 – 1750: Cases from the floor, Discussion all

19:15: Bus transfer from Siloah hospital entrance to the Gala Dinner

19:45: Gala Dinner


11055 - 1205: Discussion

1210 - 1300: Lunch




Saturday, November 5th

Morning Session. Chair: M Hocke, K Stock

0915 - 0935:	CEUS and Endosonography	Hocke
0935 – 0950:	Quantifying tumor vascularization	Leen
0950 – 0955:	Discussion	all
0955 – 1015:	3-D, 4-D CEUS	Leen
1015 – 1020:	Discussion	all
1020 -1040:	Coffee break	
1040 - 1055:	Acute pancreatitis: Benefit of CEUS	Pachmann
1055 - 1120:	CEUS in the management of pancreatic tumors	D`Onofrio
1120 -1140:	CEUS in ischemic and inflamed intestinal wall	Wilson
1140 - 1155:	The GI tract from inside – a new indication?	Weskott/Höpfner

Other Extra-hepatic Indications

Afternoon Session. Chair: M D`Onofrio, S Wilson

1305 -1350:	Case discussions	
1350 – 1405:	Intestinal bleeding in GVH patients	Jung
1405 – 1420:	CEUS & planning and monitoring renal interventions	Stock
1420 – 1440:	CEUS in splenic lesions	Sidhu
1440 – 1445:	Discussion	
1445 – 1500:	Coffee break	
1500 – 1520:	Scrotum	Sidhu
1520 – 1540:	Lymph node - a role for CEUS?	Hocke
1540 - 1600:	Tumor response in extrahepatic malignancies	Lassau
1600 – 1620:	CEUS in children	Franke



1620 – 1630 Discussion

1635 – 1735: Case discussions


1740 - 1800: Cases from the floor all

1210: Adjourn

Sunday, November 6th

Other Extra-hepatic Indications

Morning Session. Chair: EMJung, HP Weskott

0915 – 0935:	Neovascularization of the vessel wall	Weskott
0935 – 0955:	Vascularization of skin flaps	Jung
0955 – 1020:	CEUS in abdominal vessels	Clevert
1020 – 1025:	Discussion	
1025 – 1045:	Coffee break	
1045 – 1105:	Role of CEUS in prostate cancer	Wijkstra
1105 – 1110:	Discussion	
1110 – 1130:	CEUS in musculoskeletal diseases	Robotti
1130 – 1135:	Discussion	
1135 – 1150:	CEUS in lung diseases	Mathis
1150 – 1210:	New contrast agents	Greis

Faculty Board

Prof. Eddy Leen

Imperial College London, England

Dr. D`Onofrio

Institute of Radiology, GB Rossi Hospital, University of Verona. Verona, Italy

Prof. Stephanie Wilson

Deptm. of Radiology, Calgary, Canada

Dr. Konrad Stock

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

Dr. Natalie Lassau

Service d'echographie, Departement d'imagerie, Institut Gustave-Roussy, Villejuif Cedex, France

Dr. Hans-Peter Weskott

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

Speakers and Instructors

Prof. Dr. Hocke

Department of Gastroenterology, Meinigen, Germany

Dr. Dirk Clevert

Institut für Klinische Radiologie, Ludwig Maximilian Universität Klinikum der Universität München, Germany

Dr. Christian Greis

Bracco company, Konstanz, Germany

Dr. Michael Höpfner

Deptm. of Gastroenterology, Rote Kreuz Krankenhaus Kassel, Germany

Dr. Paul Sidhu

Prof. David Cosgrove

Imperial College London, England

Department of Radiology, King's College Hospital London, England

Dr. Carsten Pachmann

Deptm Gastroenterology Israelitisches Krankenhaus, Hamburg, Germany

Dr. Moritz Palmowski

Deptm of Experimental Molecular Imaging, University of Aachen, Germany

Dr. Franke

Children's Department, Medical School Hannover, Germany

PD Dr. Jung

Radiology Department, University of Regensburg, Germany

Prof. Gebhard Mathis

Department of Internal Medicine, Rankweil, Austria

Prof. Thomas Fischer

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Prof. Dr. Hessel Wijkstra

Academic Medical Center, University of Amsterdam, Urology, Amsterdam, Netherland

Dr. Guido Robotti

Radiology Institute, Bellinzona, Italy

Dr. Josias Mattli

Deptm. Internal Medicine Klinik, Spital Davos, Switzerland

Dr. Heiko Andreesen

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

Dr. Carsten Böhmer

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



Thursday Afternoon: 16:25 – 17:45

Company	Bracco	Toshiba	GE	Siemens	Philips	Hitachi	TomTec	SuperSonics
Room	Lab 3	Radiology	Lab 5	Chef	Lab 2	Lab 1	Wartezimmer	Lab 4

Friday Morning: 12:00 – 12:55

Subject	CEUS & tumor response calculation	HCC I	Fusion Imaging	FNH, Adenoma, hemangioma I	CEUS in children	Trauma I	Pancreas	TX liver	Basics*: Tips & tricks
Teacher	Fischer	Wilson	Höpfner	Stock	Franke	Mattli	Pachmann	Clevert	Weskott
Mainly used US Devices	Toshiba	Siemens, Philips	GE	Siemens	GE/Toshiba	Siemens	Siemens	Siemens	GE
Room	Radiology	Lab 5	Lab 2	Chef	Lab 3	Lab 4	Lab 1	Wartezimmer	Auditorium

Friday Afternoon: 17:00 – 17:55

Subject	CEUS Extra-hepatic	HCC II	Fusion Imaging	FNH, Adenoma, hemangioma II	IO CEUS, 3-D	Trauma II	Biliary system	Pancreas	Basics*: Extrahepatic indications
Teacher	Kinkel	Wilson	Höpfner	Stock	Leen	Mattli	Weskott	D'Onofrio	Andreesen
Mainly used US Devices	Toshiba	Siemens, Philips	GE	Siemens	Philips	Siemens	GE	Siemens	GE/Philips
Room	Radiology	Lab 5	Lab 2	Wartezimmer	Lab 3	Lab 4	Chef	Lab 1	Auditorium

Saturday Afternoon: 13:05 – 13:50

Subject	CEUS & tumor response calculation	CEUS & interventions I	Renal tumors	CEUS in children	Spleen	Intestine	Endosonography, lymph nodes	Pancreas	Basics*: CEUS & liver
Teacher	Lassau	Jung	Weskott	Franke	Sidhu	Wilson	Hocke	D'Onofrio	Böhm
Mainly used US Devices	<i>Toshiba</i>	<i>GE</i>	<i>GE</i>	<i>GE/Toshiba</i>	<i>Siemens</i>	<i>Siemens/Philips</i>	<i>Hitachi</i>	<i>Siemens</i>	<i>GE</i>
Room	<i>Radiology</i>	<i>Wartezimmer</i>	<i>Chef</i>	<i>Lab 3</i>	<i>Lab 4</i>	<i>Lab 2</i>	<i>Lab 1</i>	<i>Lab 5</i>	<i>Auditorium</i>

Saturday Afternoon: 16:30 – 17:30

Subject	CEUS Extra-hepatic	CEUS & interventions II	Renal tumors	CEUS in lung diseases	Scrotum	Intestine	CEUS in MSK	Prostate	Basics*: Fusion, Navigation
Teacher	Kinkel	Jung	Stock	Mathis	Sidhu	Wilson	Robotti	Wijkstra	Höpfner
Mainly used US Devices	<i>Toshiba</i>	<i>GE</i>	<i>Siemens</i>		<i>Siemens</i>	<i>Siemens/Philips</i>		<i>Siemens/Super Sonics</i>	<i>GE</i>
Room	<i>Radiology</i>	<i>Wartezimmer</i>	<i>Chef</i>	<i>Lab 3</i>	<i>Lab 4</i>	<i>Lab 5</i>	<i>Lab 1</i>	<i>Lab</i>	<i>Auditorium</i>

*: Basic sessions dedicated for company representatives (Auditorium), physicians may attend as well