

Basic Course Abdominal Ultrasound 30th March – 2nd April 2017

Day 1: Thursday

Time	Content	Faculty	
13:45	Reception / allocation to small-groups of 5 participants / handouts		
14:00	Introduction; Refresher on probe-handling and physical basics:		
	Why appear which structures hypo-versus hyperechogenic?	Hofer	
	live-demo: sagittal views, systematic identification of 3D anatomy		
14:30	hands-on ultrasound exercises sagittal views in groups of 5:	Faculty - Trainer:	
	Retroperitoneal predilection sites of lymph nodes (LN),	Bergfelder,	
	retroperitoneal blood vessels (AO, IVC, CT, SMA),	Hofer, Majewski,	
	dynamic steering of transducer and patient's breathing	Schmidt, Weigel	
	(E source participante exemine each other under eupervision)		
	(5 course participants examine each other under supervision)		
15:45	drawing exercises in small groups on sagittal-views	Trainer	
	\rightarrow Memoryeffect \uparrow and 3D-pattern recognition \uparrow		
16:00	coffee break		
16:20	Topographic anatomical orientation in parailiac views	Hofer	
10.20	live-demonstration	TIOTEI	
16:30	hands-on ultrasound exercises sagittal views in groups of 5:		
	systematic scanning of parailiac views:	Trainer	
	ruling out ascending DVT (deep venous thrombosis) or enlarged LN		
17:00	case examples clinical relevance/ common findings in sagittal views	Hofer	
17:15	Physical Basics: frequent artifacts and pitfalls	Hofer	
17:30	coffee break		
17:45	Live-Demonstration: anatomical orientation in transverse views,	Hofer	
	advices and tricks to visualize the pancreas, application of pressure		
18:00	Hands-on ultrasound exercises transverse views in groups of 5:		
	Systematic scanning of all parts of the pancreas		
	Identification of aortic origin of	Trainer	
	celiac trunc and SMA (superior mesenteric artery),		
	left renal veine crossing, DD of LN ↔ blood vessels		
19:30	case examples common pathological findings in transverse views	Hofer	
19:45	drawing exercises in small groups on transverse-views:	Trainer	
	Who is who ? \rightarrow Memoryeffect \uparrow and 3D-pattern recognition \uparrow		
approx.	end of 1 st day of the course; recommended preparation for friday:		
20:00	Sono-Grundkurs, (Thieme Publisher) 8 th German edition 2015,		
	chapters on liver, gall bladder and spleen, pp. 39-78		
(You	(You do not have to show up next morning sober / fasting state – to have breakfast is ok)		

Course Site:

Iberostar Royal Golfclub, Novo Sancti Petri (Chiclana), Andalusia http://www.clubgolfrealnovosanctipetri.com/pg_10.php?lng=de



Basic Course Abdominal Ultrasound Day 2: Friday 31st March 2017

Time	Content	Faculty
10:00	live-demonstration: anatomical orientation in oblique views of the	Hofer
	upper abdomen (hepatic hilum) and in right MCL (gall bladder, GB)	
10:15	hands-on ultrasound exercises in groups of 5:	
	hepatic hilum and gall bladder	Tusinsu
	nortal hyportancian INA shalooyatitia ar call stance?	Trainer
	portal hypertension, LN-个, cholecystitis or gall stones?	
11:15	case examples DD of LN-↑ (size, hilar fat sign) and gall bladder	Hofer
11:30	drawing exercises in small groups: oblique-views of upper abdomen	
11:40	coffee break: fruits & cookies / sweets	
11:55	live-demonstration systematic scanning of the entire (!) liver incl. star of hepatic veines and DD portal ↔ hepatic veines ↔ bile ducts	Hofer
12:15	hands-on ultrasound exercises liver (part 1) in groups of 5:	
	systematic scanning of the entire liver in 2 perpendicular views,	
	Examination of the hepatic veines in subcostal oblique view	Trainer
	normal variants, fatty liver, focal liver lesions, right heart insufficiency?	
	Siesta 13:15 – 16:30 (opportunity for hands-on exercises from 4:00 PM to 4:30 PM)	
16:30	case examples of frequent focal liver lesions, common pathologies	Hofer
17:00	hands-on ultrasound exercises liver (part 2) in groups of 5:	
	systematic scanning of the entire liver in 2 perpendicular views,	Trainer
	(we will try harder together)	
17:45	coffee break: fruits & cookies / sweets	
18:00	live-demonstration systematic scanning of both kidneys / adrenal gl.	Hofer
18:15	hands-on ultrasound exercises both kidneys in groups of 5:	
	systematic scanning of both entire kidneys in 2 perpendicular views, measurement of organ size, ratio of parenchyma-to-pelvis-ratio	Trainer
approx. 19:30	end of 2 nd day of the course; recommended preparation for saturday: Sono-Grundkurs, (Thieme Publisher) 8 th edition 2015, chapters on pelvis and genitals: pp. 88-95	

Optional Dinner (~ 20:30):

At Milan's Restaurant: "Mar Y Monte" (between Roche and N 340) Feel free to bring your partner or family (at your own expense) <u>http://www.restaurantemarymonteconildelafrontera.es/en/</u>



Basic Course Abdominal Ultrasound Day 3: Saturday, 1st April 2017

Zeit	Inhalt	Referenten
10:00	case examples of common pathologies of the kidneys	Hofer
10:15	drawing exercises in small groups on kidneys \rightarrow memory-effect \uparrow	
10:30	live-demonstration systematic scanning of the spleen: organ size, "curtain trick" to visualize the subdiphragmal parts of the spleen	Hofer
10:45	hands-on ultrasound exercises in groups of 5: systematic scanning of the spleen and tail of the pancreas, measurement of splenic organ size	Trainer
11:45	coffee break: fruits & cookies / sweets	
12:00	case examples of common splenic pathologies	Hofer
12:15	drawing exercises of splenic views for your memory-effect↑	
12:30	free hands-on ultrasound exercises in groups of 5: where do you see areas of potential further improvements, which scanning procedures / algorithms would you like to practice? (with support of our trainers until 13:15)	Trainer
(opportunity for hands-on exercises from 4:00 PM to 4:30 PM) Please do <u>not</u> urinate later than 3:30 PM – we will need to have filled urinary bladders!		
16:30	live-demonstration scanning of the minor pelvis: urinary bladder (UB) and male / female genital organs (please drink a lot!)	Hofer
16:50	hands-on ultrasound exercises in groups of 5: systematic scanning of urinary bladder, Jet-phenomenon uterus, ovaries, prostate gland, vesicular glands	Trainer
18:00	case examples of common pathologies of the UB and genitals	Hofer
18:15	drawing exercises of minor pelvis for your memory-effect↑	Trainer
18:30	coffee break: fruits & cookies / sweets	
18:45	live-demonstration "FAST" and "eFAST" - algorithm extended focused abdominal sonography for trauma to rule out internal bleedings bleedings and pneumothorax	Hofer
19:15	OSCE-simulation to prepare for final examination tomorrow	Trainer
approx. 19:30	end of 3 rd day of the course; recommended preparation for sunday: Sono-Grundkurs, (Thieme Publisher) 8 th edition 2015, FAST & eFAST: pp. 111-122	



Basic Course Abdominal Ultrasound Day 4: Sunday, April 2nd 2017

10:00	hands-on ultrasound exercises in groups of 5:	
10.00	nunus on unusounu excloises in groups of 5.	Trainer
	EACT Algorithmus und aEACT Algorithmus	Taillei
	FAST - Algorithmus und eFAST - Algorithmus	
11:30	Wrap-up final hands-on repetition	Trainer
	one entire abdominal ultrasound examination as kind of summary	
12:00	course evaluation, feedback to course instructor and trainer	course
	please rate the course design, schedule and individual teaching	participants
	competencies of involved faculty and trainers.	
	Overview OSCE examination: small groups and schedule	Hofer
12:15	a) confirmations of course participation (for course participants	without OSCE
	who choose not to perform in final OSCE-examination (end)	
	b) time for own preparation for the final OSCE-exam.	with OSCE.
12:30	Final hands-on examination: OSCE with specific feedback	
	= objective structured clinical examination in rotational parcour	Trainer
	(only mandatory for future ultrasound tutors and trainers) goup 1	rianio
13:15	Final hands-on examination: OSCE with specific feedback	
13.15		Troipor
	= objective structured clinical examination in rotational parcour	Trainer
	(only mandatory for future ultrasound tutors and trainers) goup 2	
14:00	End of course and summative certificates	

Organizer: Marburger Bund Stiftung - in cooperation with MEDIDAK Publishing and Medical Education Dept. of Heinrich-Heine-University Düsseldorf

Course Instructor: Priv.-Doz. Matthias Hofer, M.D., MPH, MME, Diagnostic Radiologist

- Course Venue:
 Iberostar Golfclub Royal, Novo Sancti Petri / Chiclana (Cádiz), <u>http://www.clubgolfrealnovosanctipetri.com/pg_10.php?lng=de</u> Andalusia (Atlantic coast: "Costa de la Luz"), Spain
- Accomodation: In course participants` own responsibility please find our suggestion attached in separate pdf-file or on the website <u>http://www.medidak.de/intensiv/sono/?page=ort</u>
- Preparation:In order to maximize your course benefit and the achievement of your
ultrasound competencies, you will receive the corresponding ultrasound
Teaching Manual with specific suggestions for your previous background
acquisition, also based upon 55 short teaching videoclips.
(will be sent to you by regular mail after arrival of your payment).

PLEASE practice the drawing exercises several times prior to the course!