The Ultrasound Learning Area promotes the role of a major diagnostic and interventional tool in gastroenterology: Clinical ultrasonography in the hands of the gastroenterologist. The Ultrasound Learning Area offers individual hands-on training, a basic and an advanced course on ultrasonography for the gastroenterologist, which are designed for both, the beginner and the experienced and lectures in abdominal ultrasonography in the topics Gastrointestinal US (GIUS) and Contrast enhanced US (CEUS) presented by expert gastroenterologists.

Course directors:
Dieter Nuernberg, Neuruppin, Germany
Odd Helge Gilja, Bergen, Norway
Ioan Sporea, Timisoara, Romania

Faculty members & hands-on-tutors:
Christian Jenssen, Strausberg-Wriezen, Germany
Hendra Lo, Neuruppin, Germany
Thomas Möller, Wiesbaden, Germany
Maria Nürnberg, Neuruppin, Germany
Kim Nylund, Bergen, Norway
Alina Popescu, Timisoara, Romania
Adrian Saftol, Craiova, Romania
Roxana Sirl, Timisoara, Romania
Stefan Uebel, Hitachi Co.
Zeno Sparchez, Cluj, Romania
Stefan Uebel, Hitachi Co.
Jonas Valentinas, Vilnius, Lithuania
## Programme Overview

### Ultrasonography for the Gastroenterologist

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<th>Sunday, October 20, 2019</th>
<th>Monday, October 21, 2019</th>
<th>Tuesday, October 22, 2019</th>
<th>Wednesday, October 23, 2019</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Part I</td>
<td>Part II</td>
<td>Hands-on Training</td>
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### Basic Course

**Part I**  
09:00 – 16:00
Basics and introduction in abdominal ultrasound examinations

- **Moderation:** I. Sporea, A. Popescu
- **09:00 – 09:10**  Introduction and aims of the course
- **I. Sporea**
- **09:10 – 09:25**  The view in the body – examination technique and Sonoanatomy
  - **A. Popescu**
- **09:25 – 09:40**  Abdominal vessels – landmarks
  - **Z. Sparchez**
- **09:40 – 10:30**  Hands-on Training: Focus abdominal vessels
  - **Faculty**
- **10:30 – 11:00**  Coffee Break

**Moderation:** A. Popescu, Z. Sparchez
- **11:00 – 11:15**  Examination of liver
I. Sporea
11:15 – 11:30  Examination of gall bladder and bile duct

R. Sirli
11:30 – 12:30  Hands-on Training: Focus liver and biliary system
Faculty
12:30 – 12:45  Physics and technique – setting up the machine and small introduction to technical details
S. Uebel
12:45 – 13:00  Examination of pancreas

13:00 – 14:00  Lunch Break

Moderation:  K. Nylund, C. Jenssen
14:05 – 14:45  Hands-on Training: Focus pancreas and retroperitoneum
Faculty
14:45 – 15:00  Examination of (abdominal) lymph nodes
C. Jenssen
15:15 – 15:30  First look at stomach and bowel – typical positions
K. Nylund
15:00 – 15:15  Where to check for free fluid and gas?
D. Nuernberg
15:30 – 15:55  Video demonstration and QUIZZ
A. Popescu
15:55 – 16:00  Closing remarks for the first day
I. Sporea, D. Nuernberg

Hands-on Training A
16:00 – 18:00  Ultrasonography for the Gastroenterologist

Sunday, October 20, 2019

Advanced Course
Part II  09:00 – 16:00
Pathology and special topics in abdominal ultrasound examinations
Moderation:  D. Nuernberg, I. Sporea
09:00 – 09:05  Introduction and aims of the course
D. Nuernberg
09:05 – 09:20  Gall bladder pathology: Stones and tumors
R. Sirli
09:20 – 09:35  Pancreas pathology – focal lesions
C. Jenssen
09:35 – 09:50  Liver pathology: Diffuse changes
I. Sporea
09:50 – 10:30  Hands-on Training: Bile duct, liver and portal system
Faculty
10:30 – 11:00  Coffee Break

Moderation:  C. Jenssen, T. Müller
11:00 – 11:10  Better examination (tips and tricks) – live demonstration
D. Nuernberg
11:10 – 11:25  Focal liver lesions
Z. Sparchez
11:25 – 11:40  Pathology of abdominal vessels  
*C. Jenssen*

11:40 – 12:25  Hands-on Training: Liver segments, abdominal vessels  
*Faculty*

12:25 – 12:45  Pathology of gastrointestinal tract  
*K. Nylund*

12:45 – 13:00  Better examination (tips and tricks) – live demonstration – how to find the appendix?  
*T. Müller*

13:00 – 14:00  Lunch Break

Moderation:  
O.H. Gilja, D. Nuernberg

14:00 – 14:15  Bile duct pathology: Causes of obstruction  
*T. Müller*

14:15 – 14:30  Pancreas pathology – inflammatory changes  
*O.H. Gilja*

14:30 – 15:15  Hands-on Training: Focus pancreas and bowel  
*Faculty*

15:15 – 15:30  Other abdominal and retroperitoneal pathology interesting for gastroenterologists  
*D. Nuernberg*

15:30 – 15:55  Interesting cases – (video demonstration)  
*Faculty*

15:55 – 16:00  Closing remarks, certificates  
*O.H. Gilja, D. Nuernberg*

**Hands-on Training B**

16:00 – 18:00  
Ultrasonography for the gastroenterologist
Monday, October 21, 2019
Hands-on Training C
09:00 – 12:00
Ultrasonography for the gastroenterologist

PART III 13:00 – 15:00
Ultrasonography Learning Area – Noon Lectures:
Gastrointestinal Ultrasound - GIUS
Moderation: OH. Gilja, A. Popescu
13:00 The EFSUMB GIUS Guidelines
   OH. Gilja
13:20 Basic methodology. How to scan?
   K. Nylund
13:40 Ultrasound in IBD
   A. Popescu
14:10 Ultrasound in acute appendicitis and diverticulitis
   T. Müller
14:40 Intestinal emergencies
   D. Nürnberg

Hands-on Training D
15:00 – 18:00
Ultrasonography for the gastroenterologist

Tuesday, October 22, 2019
Hands-on Training E
09:00 – 12:00
Ultrasonography for the gastroenterologist

PART IV 13:00 – 15:00
Ultrasonography Learning Area – Noon Lectures:
Contrast Enhanced Ultrasonud (CEUS)
Moderation: C. Jenssen, A. Saftoiu
13:00 Impact of CEUS in Gastroenterology – the updated EFSUMB Guidelines
   C. Jenssen
13:20 CEUS in focal liver lesions
   Z. Sparchez
13:40 CEUS in pancreatic diseases
   A. Saftoiu
14:10 Special applications of CEUS
   T. Müller
14:40 CEUS in Intestinal diseases
   OH. Gilja

Hands-on Training F
15:00 – 18:00
Ultrasonography for the gastroenterologist

Wednesday, October 23, 2019
Hands-on Training G
09:00 – 14:00  Ultrasonography for the gastroenterologist