

# EUROSON SCHOOL 2019

## January 18-19, 2019, Athens-Greece

### Preliminary Programme

#### Friday, January 18

08:00-09:00

Registration

#### **Theoretical Course / PHYSICS AND TECHNOLOGY**

09:00-09:15

Basics in US Physics

09:15-09:30

Elastography Physics and Technology

09:30-09:45

Applications of fusion imaging in the Liver and the CNS

09:45-10:00

EFSUMB Guidelines on Elastography: Technical part

11:00-11:30

*Coffee Break*

#### **Theoretical Course / BREAST**

11:30-11:45

Clinical /Surgical Overview: - What the surgeon expects from US

11:45-12:00

Developments of the imaging modalities in the screening of Breast tumors

12:00-12:15

Ultrasound Elastography and Histology in Breast tumors

12:15-12:30

MRI of the Breast

12:30-12:45

US and Elastography for guiding Breast interventions

13:00-14:00

*Lunch Break*

#### **Theoretical Course / LIVER**

14:00-14:15

Clinical /Surgical Overview:

\* What the hepatologist expects from US

\* What the surgeon expects from US

14:15-14:30

Impact of Fibroscan (VCTE) in assessment and therapy of chronic liver disease

14:30-14:45

Quantitative evaluation of Elastography techniques

14:45-15:00

Factors affecting liver stiffness during sonoelastography

15:00-15:15

Morphologic, Hemodynamic and Elastographic US criteria in grading liver fibrosis and PH

15:15-15:30

Operative US in the transplanted liver

15:30-15:45

CEUS in the evaluation of tumor response after locoregional treatment

15:45-16:00

Long-term results of US-guided percutaneous hydatid cyst treatment (PAIR)

16:30-17:00

*Coffee Break*

#### **Theoretical Course / GYNECOLOGY – OBSTETRICS**

17:00-17:15

Clinical /Surgical Overview:

\* What the gynecologist expects from US

\* What the obstetrician expects from US

17:15-17:30

3D US, Color Doppler and Elastography in the Uterus and Ovaries

17:30-17:45

1st trimester: screening update

17:45-18:00

2nd trimester: anomaly scanning

18:00-18:15

3rd trimester: pregnancy evaluation

18:15-18:30

MRI contribution to anomaly scanning

18:30-18:45

US of female pelvis in Urogynecology

18:45-19:00

Contrast media in the evaluation of subfertility

#### **INVITED LECTURES**

20:00-20:20

The evolution of invasive procedures in prenatal diagnosis

20:20-20:40

UltraFast Imaging, a new breakthrough in US imaging. Our view on the future

## Friday, January 18

08:00-08:30 Registration

### **Theoretical Course / Contrast -Enhanced Ultrasound (CEUS), GI TRACT**

08:30-08:45 Clinical /Surgical Overview:

\* What the gastroenterologist expects from US

\* What the surgeon expects from US

08:45-09:00 Diagnostic endoscopic and interventional US and Elastography in the GI Tract

09:00-09:15 US and CT guided interventions in the Liver and Bile ducts

09:15-09:30 CEUS in diagnosis and treatment of infectious bowel disease

09:30-09:45 Spleen Elastography and correlation with CEUS

### **Practical Course / Contrast -Enhanced Ultrasound (CEUS), GI TRACT**

*How I do it:*

09:50-10:00 Liver applications of CEUS: Technique and limitations

10:00-10:10 CEUS in the diagnosis and intervention for focal liver lesions

10:10-10:20 Endoscopic US, Elastography and interventional US of the upper GI tract

11:00-11:30 *Coffee Break*

### **Practical Course / LIVER**

*How I do it:*

11:30-11:40 Vibration Controlled Transient Elastography (VCTE), Fibroscan

11:40-11:50 Acoustic Radiation Force Impulse (ARFI)

11:50-12:00 ShearWave Elastography (SWE)

12:00-12:10 Operative US in liver surgery

13:00-14:00 *Lunch Break*

### **Practical Course / GYNECOLOGY – OBSTETRICS**

*How I do it:*

14:00-14:10 US 2D-3D, Color Doppler and Elastography of the Uterus and the Ovaries

14:10-14:20 US in obstetrics / 1st trimester

14:20-14:30 US in obstetrics / 2nd trimester and cardiac US

14:30-14:40 Amniocentesis and CVS

### **Theoretical Course / HEART-VESSELS**

15:15-15:30 Clinical /Surgical Overview:

\* What the cardiologist expects from US

\* What the vascular surgeon expects from US

15:30-15:45 Novel technologies in cardiac US

15:45-16:00 3D Echo in valvular disease

16:00-16:15 Elastography of the cardiovascular system

16:15-16:30 US, Color Doppler and Elastography of the carotid artery

16:30-17:00 *Coffee Break*

Friday, January 18

HALL B

**Practical Course / HEART – VESSELS**

*How I do it:*

- 17:00-17:10 US and Elastography of the carotids and peripheral arteries
- 17:10-17:20 Technique of US/ Doppler examination of the vessels of the legs and the kidneys

**Practical Course / BREAST**

*How I do it:*

- 18:20-18:30 Automated Breast Ultrasound and Elastography as screening tools
- 18:30-18:40 Mammography and US in guiding breast surgery
- 18:40-18:50 Creating a breast phantom for US guided interventions

## Saturday, January 19

08:00-09:00	Registration
	<b>Theoretical Course / PHYSICS AND TECHNOLOGY</b>
09:00-09:15	Image fusion guided biopsies of the Prostate
09:15-09:30	CEUS: recent developments and new applications
09:30-09:45	Contributions of Zone Sonography technology to the quality of diagnostic US imaging
09:45-10:00	EFSUMB Guidelines on Elastography: Clinical part
	<b>Theoretical Course / BRAIN, NERVES</b>
10:00-10:15	Clinical /Surgical Overview: * What the neurosurgeon expects from US * What the neurologist expects from US of the CNS * What the neurologist expects from US of the PNS
10:15-10:30	Transcranial US of the CNS
10:30-10:45	US of the peripheral nerves
10:45-11:00	US guided analgesia and anesthesia
11:00-11:30	<i>Coffee Break</i>
	<b>Theoretical Course / THYROID - LYMPH NODES</b>
11:30-11:45	Clinical /Surgical Overview: * What the endocrinologist expects from US * What the surgeon expects from US
11:45-12:00	US, Color Doppler and Elastography of the Thyroid
12:00-12:15	US and Elastography of the Salivary glands
12:15-12:30	US, Elastography and US-guided FNA of the Thyroid and the lymph nodes
12:30-12:45	Cytology after US-guided FNA of the thyroid nodule
13:00-14:00	<i>Lunch Break</i>
	<b>Theoretical Course / UROGENITAL</b>
14:00-14:15	Clinical /Surgical Overview: * What the urologist expects from US * What the oncologist expects from US
14:15-14:30	Radical prostatectomy: laparoscopy vs. robotic surgery
14:30-14:45	TRUS semiology of the Prostate
14:45-15:00	Prostate TRUS, Color Doppler, Elastography and guided biopsies
15:00-15:15	Histological examination after US-guided biopsy of the Prostate
15:15-15:30	US in infertility / man
15:30-15:45	US in infertility / woman
16:30-17:00	<i>Coffee Break</i>

## Saturday, January 19

### Theoretical Course / MSK

17:00-17:15	Clinical /Surgical Overview: <ul style="list-style-type: none"><li>* What the orthopaedician expects from US</li><li>* What the rheumatologist expects from US</li><li>* What the physiatrist expects from US</li></ul>
17:15-17:30	US in Rheumatology
17:30-17:45	US and Elastography in the Musculoskeletal System / Upper and Lower limb
17:45-18:00	US vs MRI in the Musculoskeletal System
18:00-18:15	US and Elastography in tumors of the MSK and Traumatology
18:15-18:30	US in the assessment of juvenile idiopathic arthritis
18:30-18:45	CEUS in Rheumatology
18:45-19:00	US of the congenital hip dislocation
19:00-19:15	Interventional US in the neuromuscular disorders (Botox)

## Saturday, January 19

### Practical Course / MSK

*How I do it:*

- 08:30-08:40 Technique and applications of US and Elastography in the MSK  
08:40-08:50 US-guided interventions in the Spine  
08:50-09:00 US-guided interventional procedures in the shoulder

### Practical Course / THYROID-LYMPH NODES

*How I do it:*

- 10:00-10:10 Color Doppler and Elastography of the thyroid and the cervical lymph nodes: Technique and Pitfalls  
10:10-10:20 Added value of Elastography in characterizing thyroid nodules  
10:20-10:30 US guided thyroid ablation  
11:00-11:30 *Coffee Break*

### Practical Course / UROGENITAL

*How I do it:*

- 11:30-11:40 Diagnostic TRUS and Elastography of the Prostate  
11:40-11:50 Elastography and TRUS-guided prostate biopsy  
11:50-12:00 Technique of TRUS guided biopsies: How to avoid complications  
13:00-14:00 *Lunch Break*

### Theoretical Course / POINT OF CARE, TRAUMA, ICU

- 14:00-14:30 Clinical /Surgical Overview:  
\* What the surgeon expects from the US in trauma unit  
\* What the intensivist expects from US  
14:30-14:45 US of the Heart in the ICU  
14:45-15:00 CEUS in the Emergency Unit  
15:00-15:15 Interventional US in the thorax  
15:15-15:30 Non-invasive haemodynamic monitoring in critical care:  
diagnostic and therapeutic implications  
15:30-15:45 US guided nerve blocks in trauma analgesia  
16:30-17:00 *Coffee Break*

### Practical Course / POINT OF CARE, TRAUMA, ICU

- 17:00-17:10 US guided IV and IA catheter placement  
17:10-17:20 US guided nerve blocks in Anesthesiology  
17:20-17:30 US and CEUS in abdominal trauma

**Saturday, January 19**

**Practical Course / BRAIN-NERVES**

*How I do it:*

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|-------------|---|
| 18:20-18:30 | US guided analgesia and anesthesia                |
| 18:30-18:40 | Indications and technique of transcranial Doppler |
| 18:40-18:50 | US and Elastography in neck nerve tumors          |

**HALL B**