



# MODULAR ULTRASOUND ESTES COURSE

ECTES 2022 pre-congress Course

Oslo

Norway

22/04/2022

23/4/2022

22/04/2022

Module 1

## Extended Focused Assessment for Trauma



8:00	Registration of Students
8:15	Welcome and opening of the Course
8:25	<b>Case Scenario</b> - <i>Interactive</i> - - Live demonstration - Ultrasound in trauma as decision-making tool
8:40	<b>Revision of Knobology &amp; image orientation</b> - <i>Interactive</i> - (1 Instructor explain - 1 Instructor show on machine) . <u>What happens on the US monitor by different regulations</u> <ul style="list-style-type: none"><li>• <i>turning on the machine</i></li><li>• <i>handling probe - direction, gel,...</i></li><li>• <i>buttons - gain, TGC, depth, M-mode</i></li><li>• <i>focus</i></li><li>• <i>freezing and recording</i></li></ul>
9:00	<b>E-FAST</b> (video). <i>Discussion on tricks/pitfalls</i>
9:20	<b>Interactive session</b> - Case Scenario <b>1/2/3</b>
9:55	<b>BREAK</b>
10:10	<b>Hands-on sessions *</b> Practice on healthy models
12:10	<b>Test</b>
12:25	Revision of the Test
12:30	Closing remarks

**LUNCH**



22/04/2022

Module 2

## Ultrasound in Emergency Department

14:00	<b>Welcome</b>
14:05	<b>Clinical based-Scenarios - Interactive -</b> 2 scenarios (1 soft tissue, 1 for GB), 5' each
14:30	<b>Lecture &amp; Interactive cases / 1</b> - Gallbladder & biliary tree - <u>Case scenarios</u> - Aorta - <u>Case scenario</u> - Kidney & Bladder - <u>Case scenarios</u>
15:00	<b>BREAK</b>
15:15	<b>Lecture &amp; Interactive cases / 2</b> - CUS - Fractures - <u>Case scenario</u> - Soft tissues US - <u>Case scenarios</u>
15:45	<b>Hands-on sessions</b> Practice on health models
17:45	<b>Test</b>
17:55	Revision of the Test
18:00	Closing remarks



Module 3  
**Advanced Visceral Ultrasound**

8:00	<b>Welcome</b>
8:05	<b>Normal intestinal US anatomy</b> <i>plenary comments on videoclips</i>
8:15	<b>Acute Appendicitis</b> <ul style="list-style-type: none"><li>• technique of US exam</li><li>• pathological findings</li><li>• tips and tricks</li></ul>
8:25	<b>Acute diverticulitis.</b> <ul style="list-style-type: none"><li>• technique of US exam</li><li>• pathological findings</li><li>• staging</li><li>• tips and tricks</li></ul>
8:35	<b>Hands-on sessions 1</b>
10:05	<b>Small bowel obstruction.</b> <ul style="list-style-type: none"><li>• what we have to search for...</li><li>• US findings</li><li>• clinical US reasoning</li></ul>
10:15	<b>Bowel perforation:</b> recognizing free peritoneal air
10:25	<b>Case scenarios and videoclips</b> <ul style="list-style-type: none"><li>• Appendicitis</li><li>• Bowel obstruction</li><li>• Diverticulitis</li><li>• Intestinal perforation</li></ul>
10:45	<b>BREAK</b>
11:00	<b>Hernia US:</b> <ul style="list-style-type: none"><li>• landmarks</li><li>• technique</li><li>• pathological findings</li></ul>
11:10	<b>Hands-on sessions 2</b>
12:10	<b>Test</b>
12:20	Revision of the Test
12:25	Closing remarks

23/4/2022



## Module 4 Interventional Ultrasound

14:00	<b>Welcome</b>
14:10	<b>Principles of Interventional US</b> How to be prepared for an interventional manoeuvre: <ul style="list-style-type: none"><li>• needle&amp;Drainages</li><li>• a possible Check-list</li><li>• Set up of the machine</li><li>• choice of the</li><li>• Operator/Patient/Machine positioning: the ideal position</li></ul> <b>Technique: VIDEO Discussion on Technique</b> <ul style="list-style-type: none"><li>• In Plane/Out of Plane</li><li>• Fanning and Jiggling</li><li>• Tricks for needle visualisation</li><li>• Discussion on tricks&amp;pitfalls</li></ul>
14:30	<b>Maneuvers - Techniques and Indications</b> <ul style="list-style-type: none"><li>• Vascular Access 15'</li><li>• Central &amp; peripheral venous cannulation</li><li>• Abdominal maneuvers 15'</li><li>• Diagnostic Peritoneal Aspiration (DPA)</li><li>• Suprapubic cystostomy</li><li>• Cholecystostomy</li></ul>
15:00	<b>Hands-on session</b>
16:00	<b>Maneuvers - part 2 / Techniques and Indications</b> Thoracentesis & Pneumothorax aspiration
16:20	<b>BREAK</b>
16:40	<b>Hands-on sessions</b>
17:40	<b>Test</b>
17:55	Revision of the Test
18:00	Closing remarks