



INTESTINAL ULTRASOUND COURSE SYLLABUS AND NOTES

Course information

Code number: SC0012
Title: Intestinal ultrasound
Faculty: Georgios and Theodoros Tsionis, Gastroenterologists
Venue: Gastroenterological Diagnosis
66 Herodotou Street
62125, Serres, Greece
Date: 17.10.26
Level of education: Advanced

Contact information

Scientia Edu
Ethnikis Antistasis 18
62122 Serres
Greece
Tel: +30 697 581 0741
email: info@scientiaedu.gr

Course pre-requisites

MD Degree from an internationally approved Faculty of Medicine

Course description

Intestinal ultrasound (IUS) has become an essential diagnostic tool in modern clinical practice, providing a safe, non-invasive, and cost-effective approach to

the evaluation of an expanding spectrum of gastrointestinal diseases, including acute appendicitis, acute diverticulitis, intestinal obstruction, intestinal ischemia, neoplasms, and other less common conditions. Its most important clinical application, however, is in the assessment and management of inflammatory bowel diseases (IBD).

This educational seminar aims to introduce the fundamental principles of intestinal ultrasound and to familiarize participants with its most clinically relevant findings in inflammatory bowel diseases, particularly Crohn's disease and ulcerative colitis, as well as in a range of non-IBD intestinal pathologies.

Learning objectives

- Understanding the fundamental principles of ultrasound physics
- Optimizing image quality and adjusting ultrasound equipment appropriately
- Understanding the ultrasound anatomy of the intestinal tract
- Identifying the normal sonographic appearance of intestinal structures, including cross-sectional area and echogenicity
- Identifying anatomical landmarks and positions used for spatial orientation
- Becoming familiar with the essential skills required to perform intestinal ultrasound effectively
- Becoming familiar with the most common pathological findings in inflammatory bowel disease (IBD), including ulcerative colitis (UC) and Crohn's disease (CD)

Suggested Course Material

How to perform Contrast-Enhanced Ultrasound (CEUS). Ultrasound Int Open 2018; 04(01): E2-E15

D.A. Clevert, M. D'Onofrio, E. Quaia. Atlas of Elastasonography Clinical Applications with Imaging Correlations. Springer

G. Maconi, G.P. Porro. Ultrasound of the Gastrointestinal Tract (Medical Radiology). Springer

Cantisani V, Bertolotto M, Weskott HP, Romanini L, Grazhdani H, Passamonti M, Drudi FM, Malpassini F, Isidori A, Meloni FM, Calliada F, D'Ambrosio F. Growing indications for CEUS: The kidney, testis, lymph nodes, thyroid, prostate, and small bowel. Eur J Radiol. 2015 Sep;84(9):1675-84