

European Thyroid Association

Thyroid Ultrasound Course – 2022

Basic course in diagnostic thyroid
ultrasound

C. Durante, L. Hegedüs, E. Papini, G. Russ, T. Solymosi

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Basic Ultrasound Course

SUMMARY	
Course opens	09/08/2022
Course closes	10/09/2022
Live course starts	10/09/2022 – 08:00 am
Live course ends	10/09/2022 – 13:00 pm
Venue	Bozar Rue Ravensteinstraat 23 1000 Brussels, Belgium
Website	URL
Target audience	Endocrinologists and other healthcare providers involved in the management of thyroid-related diseases
Attendees	50
Course certification	All participants who have successfully completed the course will receive a “ <i>Certificate of attendance</i> ” issued by the European Thyroid Association

OVERVIEW

The Basic Ultrasound Course is aimed at providing a state-of-the-art of diagnostic neck ultrasound with lectures, interactive clinical case discussion sessions and hands-on ultrasound training sessions. It will focus on the use of ultrasound in diagnosing diffuse thyroid disorders, defining the risk of malignancy of thyroid nodules, examining cervical lymph nodes and identifying parathyroid adenomas. The course is specifically designed for beginners or those with limited experience

in performing thyroid and neck ultrasonography. Real-time ultrasound examinations will be demonstrated through video clips and on patient volunteers.

LEARNING OBJECTIVES

Upon completion of this educational activity, attendees will be able to:

- Recognize the normal anatomy of the neck
- Recognize the main ultrasound patterns associated with diffuse thyroid disorders
- Identify and measure thyroid nodules
- Recognize and describe the ultrasound characteristics of benign and malignant thyroid nodules
- Classify the risk of malignancy of thyroid nodules by applying a risk stratification system (i.e., EU-TIRADS) and select nodules for fine-needle aspiration biopsy
- Recognize and describe the ultrasound characteristics of benign and malignant cervical lymph nodes
- Recognize and describe the ultrasound characteristics of parathyroid adenomas
- Perform a diagnostic thyroid ultrasound examination and identify normal neck anatomy

THEMES

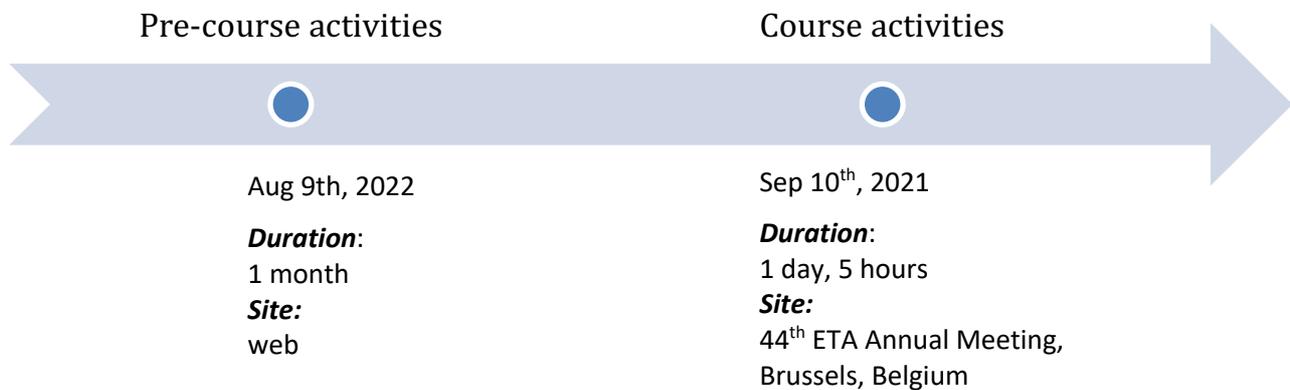
To be delivered in the pre-course e-learning activities (*video lectures*).

- Normal head and neck ultrasound anatomy (*15 min*)
 - Discuss the anatomy of the neck and identify the important landmarks -

Rose Ngu

- Sonographic assessment of thyroid nodules (60-90 min)
 - Sub-module A (30-45 min):
 - Identify and measure thyroid nodules - [Steen J Bonnema](#)
 - Recognize ultrasound characteristics of benign and malignant nodules that have predictive value in deciding treatment - [Enrico Papini](#)
 - Sub-module B (30-45 min):
 - EU-TIRADS - [Gilles Russ](#)
 - Discuss the current guidelines for biopsy of nodules - [Cosimo Durante](#)
- Ultrasound of diffuse thyroid disorders/goiter (30 min)
 - Review ultrasound patterns seen in autoimmune thyroiditis, including pseudo-nodules - [Tamás Solymosi](#)
- Sonographic assessment of cervical lymph nodes (30 min)
 - Recognize ultrasound characteristics of benign and malignant lymph nodes (30 min) - [Camille Buffet](#)
- Sonographic assessment of parathyroid adenomas (30 min) - [Andrea Frasoldati](#)
 - Review the anatomical variations in the location of parathyroid glands
 - Recognize the ultrasound appearance and features of parathyroid adenomas
- Fine needle aspiration biopsy (60 min)
 - Sub-module A (30 min) - [Tamás Solymosi](#)
 - Discuss the variety of techniques of performing the procedure
 - Techniques to optimize fine-needle aspiration biopsy
 - Recognize the importance of good slide preparation techniques for cytological analysis and knowledge of liquid-based cytology and thyroglobulin assessment
 - Sub-module B (30 min) - [Fernando Schmitt](#)
 - Classification systems
- Clinical cases (30 min) - [Patrick Petrossians](#)

ACTIVITIES



1. Pre-course activities (*remote event*)

One month before the live course starts, a pre-course e-learning activity will be proposed to participants. The web-site dedicated to this activity will be hosting the following materials:

- **Welcome message introducing the course goals and the workshop agenda**

It should provide an overview of the activities and methods that will be used through the course (pre-course and course). This is also the opportunity for participants to get used to the online learning platform. This event can be a pre-recorded video lecture.

- **Educational materials**

They include slide based lectures, video clips addressing the contents of the course. Shifting direct instruction before the live course activities will allow instructors to devote more time to integrate and apply attendees' knowledge

during the live event. Time becomes available for attendees to engage more deeply with content, practice skills, and receive feedback.

2. Course activities (*live event*)

Live course activities will allow attendees to apply the knowledge they have acquired in the pre-course activities, by addressing clinical challenges. The setting should promote peer discussion, and feedback and direction from instructors. The course activities will include:

- **Kickoff event**

The kickoff event introduces the course goals and the agenda – [C. Durante](#)

Duration: 10 min

- **Activity #1**

- A presenting author introducing clinical cases and asking questions – [Cosimo Durante](#)
- Audience televoting on questions
- Expert panels reacting to the answers – [Eva Gentbrugge](#), [Enrico Papini](#), [Gilles Russ](#), [Tamás Solymosi](#), [Nunzia Tacelli](#), [Annick Van den Briel](#)
- Take home messages – [Cosimo Durante](#)

Duration: 80 min

- **Activity #2**

- Clinical cases in small subgroups (n=10) with a tutor
- Then all subgroups join, and one member of each subgroup presents the case to the whole group

Tutor: Cosimo Durante, Eva Gentbrugge, Bruno Lapauw, Enrico Papini, Steven Raeymaeckers, Gilles Russ, Tamás Solymosi, Nunzia Tacelli, Annick Van den Bruel

Duration: 120 min

- **Hands-on sonography training**

Real-time ultrasound examinations will be performed on patient volunteers

Tutor: Cosimo Durante, Eva Gentbrugge, Bruno Lapauw, Enrico Papini, Steven Raeymaeckers, Gilles Russ, Tamás Solymosi, Nunzia Tacelli, Annick Van den Bruel

Duration: 90 min

FACULTY

Ultrasound Course Board

C. Durante, L. Hegedüs, E. Papini, G. Russ, T. Solymosi

Local Faculty

Eva Gentbrugge, Bruno Lapauw, Patrick Petrossians, Steven Raeymaeckers, Nunzia Tacelli, Annick Van den Briel

Speakers

Steen J Bonnema, Camille Buffet, Cosimo Durante, Andrea Frasoldati, Eva Gentbrugge, Bruno Lapauw, Rose Ngu, Enrico Papini, Steven Raeymaeckers, Patrick Petrossians, Gilles Russ, Fernando Schmitt, Tamás Solymosi, Nunzia Tacelli, Annick Van den Briel