

**ERS Training programme
Endobronchial ultrasound - Part 1
Online modules**

| Module number | Module | Faculty member | Syllabus item |
|---------------|---|------------------------|---------------|
| 1 | Lymph node map | Clementsens/ Konge | 1 |
| 2 | Mapping in the airways | Clementsens/ Konge | 2 |
| 3 | Positron emission tomography – computed tomography (PET-CT) | Fischer | 3 |
| 4 | Indication assessment | Annema / Bonta | 4 |
| 6 | EBUS | Herth | 11 |
| 7 | EUS-B | Annema/ Clementsens | 12 |
| 8 | Complications | Kontogianni | 15 |

Please allow approximately 20-30 minutes to complete each module.

Please note that the online modules should be completed before attending the course in Heidelberg. The modules will be available on the [Learning Resources website](#) 4 weeks prior to the course taking place.

View for more information www.ersnet.org/ebus

Please note that this is a provisional programme and may be subject to change



| DAY 1: Tuesday 6 October 2020 | | | | | |
|--|------------|---|--|--|---|
| | Min | | Format | Faculty member | Syllabus item |
| 08:30-09:00 | 30' | Course registration | | | |
| 09:00-09:05 | 5' | Welcome and introduction | | G.Stratakos | |
| 09:05-09:30 | 25' | Introductory Lecture | Lecture | J. Annema | 1-6 |
| Session 1 Interactive cases | | | | | |
| 09:30-09:55 | 25' | Anatomy of the lungs and the mediastinum. Landmarks | Lecture | P.Clements | 4, 12 incl. 1-6 |
| 09:55-10:10 | 15' | Case 1 –Nodal staging of Lung Cancer | Case example | N.Koufos | 4, 12 incl. 1-6 |
| 10:10-10:25 | 15' | Case 2 Diagnosing Lung tumors | Case example | K.Kontogianni | 4,13 incl 1-6 |
| 10:25-10:40 | 15' | Case 3 – Sarcoidosis | Case example | Ph.Emmanouil | 4, 12 incl. 1-6 |
| 10:40-11:10 | 30' | Coffee Break | | | |
| Session 2 Technique and performance | | | | | |
| 11:10-11:40 | 30' | EBUS technique and performance | Lecture | M.Shuhmann | 4, 6, 11, 12 |
| 11:40-12:10 | 30' | EUS (B) technique and performance | Lecture | J. Annema | 11, 13, 14, 15 |
| 12:10-12:40 | 30' | Endosonography training and simulation | Lecture | P.Clements | 12 |
| 12:40-13:40 | 60' | Lunch Break | | | |
| Session 3 Workshops 13:40 – 17:10 | | | | | |
| participants will split in two teams and workshops will run simultaneously twice so that both groups can follow all workshops in smaller groups | | | | | |
| 13:40-14:25 | 45' | Workshop 1 – EBUS/ EUS-B. Cases discussions/ practice – everything you always wanted to ask | Workshop G.Stratakos P.Clements J. Annema | Workshop 2 – Cytopathology. Specimen handling and microscopy of TBNA will be discussed. Test your own skill at the multi head microscope in an interactive manner. | Workshop Ph.Emmanouil Vl.Vitsas 14, 16, 17 |
| 14:25-15:10 | 45' | | 11 incl. Aspects of 1-15 | | |

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| | 30' | Break | | | |
| 15:40-16:25 | 45' | Workshop 3 Equipment handling (Scope and processor knobology + needle handling) Small team-based simulations of the TBNA technique will be performed on models. Acquaintance with different needle types | Workshop <i>K.Kontogianni</i> <i>E.Karetsi</i> 9, 10, 11 | Workshop 4 Simulation All participants will get supervised hands-on experience with virtual-reality simulators for practising EBUS | Workshop N.Koufos M.Shuhmann 12 |
| 16:25-17:10 | 45' | | | | |
| 17:10 | | Concluding Remarks- Course organizers | | | |
| 19:00-late | | Drinks and Course dinner for Faculty, Participants and Sponsors in old town Athens | | | |

| DAY 2- Wednesday 7 October 2020 | | | | | |
|--|-----|---|-----------|---------------------------|-----------------------------|
| | Min | | Format | Faculty member | Syllabus item |
| Session 4 | | | | | |
| Live demo + patient handling | | | | | |
| 08:45-09:30 | 45' | Live demo 1 EBUS/ EUS-B PRE-PROCEDURE scans + endoscopy plan | Chairs | J.Annema | 1, 2, 3, 4, 5, 6 |
| | | PROCEDURE Including: Sedation used, interpretation of the endoscopic ultrasound, scope and processor knobology, needle handling, EBUS procedure and specimen handling. | Live demo | Gr. Stratakos N.Koufos | 7, 8, 9, 10, 11, 13, 14, 15 |
| | | POST-PROCEDURE evaluation + feedback | Chairs | J.Annema | 16, 17 |
| 09.30-10:00 | 30' | Preparation of the patient | Lecture | E.Karetsi | |
| 10:00-10:30 Coffee Break | | | | | |
| 10:30-11:15 | 45' | Live demo 2 EBUS PRE-PROCEDURE scans + endoscopy plan | Chairs | Ph. Emmanouil | 1, 2, 3, 4, 5, 6 |
| | | PROCEDURE Including: Sedation used, interpretation of the endoscopic ultrasound, scope and processor knobology, needle handling, EBUS procedure and specimen handling. | Live demo | Gr.Stratakos VI.Vitsas | 7, 8, 9, 10, 11, 13, 14, 15 |



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| | | POST-PROCEDURE evaluation + feedback | Chairs | Ph. Emmanouil | 16, 17 |
| 11:15-11:45 | 30' | Sedation for endosonography | Lecture | VI.Vitsas | |
| 11:45-12:15 | 30' | Specimen handling and value of ROSE | Lecture | Ph.Emmanouil | 14 |
| 12:15-13:15 | 60' | Lunch Break | | | |
| Session 5 Live demo/indication-complication assessment | | | | | |
| 13:15-14:00 | 45' | Live demo 3 EBUS/ EUS-B PRE-PROCEDURE scans + endoscopy plan | Chairs | M.Shuhmann | 1, 2, 3, 4, 5, 6 |
| | | PROCEDURE Including: Sedation used, interpretation of the endoscopic ultrasound, scope and processor knobology, needle handling, EBUS procedure and specimen handling. | Live demo | Gr.Stratakos and Athens Faculty | 7, 8, 9, 10, 12, 13, 14 |
| | | POST-PROCEDURE evaluation + feedback | Chairs | M.Shuhmann | 16, 17 |
| 14:00-14:20 | 20' | E(B)US Complications | Lecture | K.Kontogianni | |
| 14:20-14:40 | 20' | Setting up a successful E(B)US service | Lecture | Gr.Stratakos | 15 |
| 14.40-15:00 | 20' | Next steps in training programme & overview of Part 2 & Part 3 | Lecture | P.Clements J. Annema | |
| 15:00-15:30 | 30' | Question and answer session | Discussion | All faculty | |
| End of official Program | | | | | |
| 15:30-16:30 drinks and Bites. Interaction between faculty, participants and Sponsors | | | | | |