

ERS Training
Tentative programme
Endobronchial ultrasound - Part 1
Online modules

Module number	Module	Faculty member	Syllabus item
1	Lymph node map	Clements/ Konge	1
2	Mapping in the airways	Clements/ Konge	2
3	Positron emission tomography – computed tomography (PET-CT)	Adam	3
4	Indication assessment	Annema	4
5	EBUS	Herth	11
6	EUS-B	Annema	12
7	Complications	Schuhmann	15
8	Handling EBUS-TBNA samples	Stratakos, Emmanouil, Gasparini	14

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

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

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

Endobronchial ultrasound - Part 1

Onsite programme

Day 1 – Thoraxklinik Heidelberg - Tuesday, 22 March 2022

	Min		Format	Faculty member
08:30-09:00	30'	Course registration		J. Kaus
09:00-09:05	5'	Welcome and introduction		Organising committee
09:05-09:30	25'	Introductory lecture	Lecture	F. Herth
Session 1		Interactive cases		
		Chairs: J. Brock/ K. Kontogianni	Voting pads	
09:30-09:45	15'	Case1 – Nodal staging of Lung Cancer	Case example	S. Gasparini
09:45-10:00	15'	Case 2 – Reading PET-CT	Case example	C. Heussel
10:00-10:15	15'	Case 3 - Diagnosing central lung tumours	Case example	G. Stratakos
10:15-10:30	15'	Case 4 – Sarcoidosis	Case example	J. Brock
10:30-11:00	30'	<i>Coffee break</i>		
Session 2		Technique and performance		
		Chairs: G. Stratakos/ S. Gasparini		
11:00-11:30	30'	EBUS technique and performance	Lecture	K. Kontogianni
11:30-12:00	30'	EUS (B) technique and performance	Lecture	P. Bonta
12:00-12:30	30'	EBUS (B) training and simulation	Lecture	F. Herth
12:30-13:30	60'	<i>Lunch</i>		
Session 3 Workshops 13:30 – 17:00				

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	45'	Workshop 1 – EBUS/ EUS-B. Cases discussions/ practice – everything you always wanted to ask	Workshop	G. Stratakos/ P. Bonta
	45'	Workshop 2 – Cytopathology. Specimen handling and microscopy of TBNA/ FAN aspires will be discussed. Test your own skill at the multi head microscope in an interactive manner.	Workshop	S. Gasparini
	30'	<i>Tea break</i>		
	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	J. Brock
	45'	Workshop 4 Simulation All participants will get supervised hands-on experience with virtual-reality simulators for practising EBUS	Workshop	K. Kontogianni
17:00		Concluding remarks - Course organisers		
19:00-late		Drinks and course dinner for faculty, participants and sponsors in old town Heidelberg		

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Day 2 - Thoraxklinik Heidelberg - Wednesday, 23 March 2022

Session 4	Min	Live demo + patient handling	Format	Faculty member
08:30-08:45		Coffee/ tea		
08:45-09:30	45'	Live demo 1 EBUS/ EUS-B PRE-PROCEDURE scans + endoscopy plan	Chairs	P. Bonta/ S. Gasparini
		PROCEDURE Including: Sedation used, interpretation of the endoscopic ultrasound, scope and processor knobology, needle handling, EBUS procedure and specimen handling.	Live demo	F. Herth/ HD faculty
		POST-PROCEDURE evaluation + feedback	Chairs	P. Bonta / S. Gasparini
09:30-10:00	30'	<i>Preparation of the patient</i>	Lecture	G. Stratakos
10:00-10:30	30'	<i>Coffee break</i>		
10:30-11:15	45'	Live demo 2 EBUS PRE-PROCEDURE scans + endoscopy plan	Chairs	S. Gasparini/ G. Stratakos
		PROCEDURE Including: Sedation used, interpretation of the endoscopic ultrasound, scope and processor knobology, needle handling, EBUS procedure and specimen handling.	Live demo	K. Kontogianni/ HD faculty
		POST-PROCEDURE evaluation + feedback	Chairs	S. Gasparini/ G.Stratakos
11:15-11:45	30'	Sedation for endosonography	Lecture	M. Scheiner
11:45-12:15	30'	Specimen handling	Lecture	S. Gasparini
12:15-13:15	60'	<i>Lunch</i>		

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Session 5				
Live demo/ indication- complication assessment				
13:15-14:00	45'	Live demo 3 EBUS/ EUS-B PRE-PROCEDURE scans + endoscopy plan	Chairs	G. Stratakos/ P. Bonta
		PROCEDURE Including: Sedation used, interpretation of the endoscopic ultrasound, scope and processor knobology, needle handling, EBUS procedure and specimen handling.	Live demo	F. Herth/ HD faculty
		POST-PROCEDURE. evaluation + feedback	Chairs	G. Stratakos / P. Bonta
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	J. Brock
14.40-15:00	20'	Next steps in training programme & overview of Part 2 & Part 3	Lecture	F. Herth
15:00-15:30	30'	Quiz/ Question and answer session	Discussion	All faculty
		End of official programme		
15:30-16:30	60'	<i>Drinks and bites</i> <i>Interaction between faculty, participants and sponsors</i>	Informal get together	Participants and Faculty

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