

### DATES April 2020 – March 2021

AMSTERDAM

- 7-8 April
- 26-27 May
- 16-17 June
- 22-23 September
- 13-14 October
- 10-11 November
- 8-9 December

- HEIDELBERG 28-29 April
- 28-29 Apri
   26-27 May
- 26-27 May
- 30 June 1 July
- 22-23 September
- 20-21 October
- 24-25 November

ATHENS

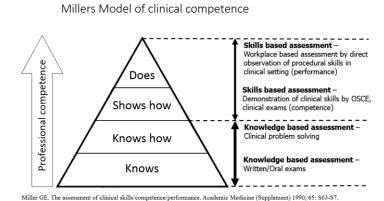
8-9 October

- COPENHAGEN
- 27-29 April
- 25-27 May

#### LEARNING OUTCOMES

Building on the knowledge gained in part 1 of the training programme this part will further develop the skills and attitudes required to independently perform EBUS.

Part 2 of the EBUS training programme will cover all learning outcomes in the curriculum up to the 'knows how' and 'shows how' (level 2-3) of the Millers Model of clinical competence.





### **TEACHING AND LEARNING METHODS**

Directed learning Self-regulated learning Independent learning Observation of EBUS procedures in a clinical setting

### ASSESSMENTS

EBUSAT and direct observation

Tuesday	Active clinical observation						
09:00 - 12:30	Observation and discussion of EBUS procedures						
	Simulator training						
13:00 - 14:30	Introduction to the procedure and the simulator	J. Annema, P. Bonta, L.					
		Crombag					
14:30 - 17:00	Directed, self-regulated learning	Simulator assistant					
Wednesday	Simulator training & assessment						
09:00 - 12:30	Observation and discussion of EBUS procedures						
13:00 - 15:30	Directed, self-regulated learning	Simulator assistant					
15:30 - 16:15	Test and certification (participant 1)	J. Annema, P. Bonta, L.					
		Crombag					
16:15 - 17:00	Test and certification (participant 2)	J. Annema, P. Bonta, L.					
		Crombag					

### AMSTERDAM

## ATHENS

Thursday	Active Clinical observation	
09:00 - 12:30	Observation and discussion of EBUS procedures	
	Simulator training & assessment	
13:00 - 14:30	Introduction to the procedure and the simulator	P.Clementsen
		M. Schuhmann
		Gr.Stratakos
14:30 - 17:00	Directed, self-regulated learning	Simulator assistant
Friday	Simulator training & assessment	
9:00 - 12:30	Observation and discussion of EBUS procedures	
13:00 - 15:30	Directed, self-regulated learning	Simulator assistant
15:30 - 16:15	Test and certification (participant 1)	P. Clementsen
		Gr Stratakos
16:15 - 17:00	Test and certification (participant 2)	M.Schuhman
		Gr.Stratakos



## COPENHAGEN

Monday	Simulator training	
13:00 - 14:30	Introduction to the procedure and the simulator	Paul Frost Clementsen
14:30 - 17:00	Directed, self-regulated learning	Simulator assistant
Tuesday	Simulator training & assessment	
09:00 - 12:30	Directed, self-regulated learning	Simulator assistant
13:00 - 14:00	Test and certification (participant 1)	Paul Frost Clementsen
14:00 - 15:00	Test and certification (participant 2)	Paul Frost Clementsen
Wednesday	Active clinical observation	
9:00 - 13:00	Active observation and discussion of EBUS	
	procedures	

### HEIDELBERG

Tuesday	Active clinical observation	
09:00 - 12:30	Active observation and discussion of EBUS	F. Herth, M. Schuhmann
	procedures	
	Simulator training	
13:00 - 14:30	Introduction to the procedure and the simulator	F. Herth, M. Schuhmann
14:30 - 17:00	Directed, self-regulated learning	Simulator assistant
Wednesday	Simulator training & assessment	
09:00 - 15:30	Directed, self-regulated learning	Simulator assistant
15:30 - 16:15	Test and certification (participant 1)	F. Herth, M. Schuhmann
16:15 - 17:00	Test and certification (participant 2)	F. Herth, M. Schuhmann



#### **PROGRAMME SESSION DESCRIPTION:**

#### ACTIVE CLINICAL OBSERVATION

This part of the training allows you to see the EBUS procedure in a real life setting. The teacher (expert) should take time prior to the procedure to talk you through the indications, the planning of the procedure and how the patient will be prepared for the procedure.

To ensure that you make the most of this active observing opportunity, you will be asked to rate the teachers performance on **three cases** using the EBUSAT framework (directly in the assessment platform). You will also have the opportunity to note down any comments or reflections you have during the procedure to discuss with the teacher at an appropriate moment during or after the procedure. Participants should enter this data onsite and in any case no longer than 5 days after the end of the course. This is a requirement for participants to pass Part 2 and be eligible to go on with Part 3 of the training programme. Detailed instructions on how to enter the necessary data follow:

- Please access the platform using your personal login: <u>http://education.ersnet.org/course/view.php?id=16</u>
- 2. Within the first module, choose the case that you want to rate:

EBUS training programm	
Navigation Home = Mylearning > Site pages ~ Current course	Your progress 🖗
Current course     Course     Participants     General     Observe the expert     Simulator assessment: Test 1     Simulator assessment: Test 2     My courses	Observe the expert           Please observe the expert performing the procedure and grade the performance. Your notes are stored ony for your personal reference.           Shortcut to the grading forms:           • Case 1           • Case 2
Administration Course administration Grades	Case 1 - Evaluated by the learner        Case 2 - Evaluated by the learner        Case 3 - Evaluated by the learner

3. Click on the 'grade' icon:

		ng prograr uated by th												
Grading a Choose														
Select	User picture	er picture First name / Surname Email address						· · · · · · · · · · · · · · · · · · ·			Edit 👳	Last modified (grade)	Feedback comments	Final grade
		Amsterdam Learne	er	noreply@learner.nl	Not marked	rked 🖻 Edit 🗸 -				-				
With sele			Lock	submissions	Go	Grade	Amsterda	ım Learner						
Assignme	ents per page		10	•										
Workflow	filter		No fil	lter 💌										



### 4. Complete all 12 criteria (lines) of the grading table

Grade								
Grade								
rade:	Please evaluate the activ	ons of the expe	ert.					
	You can add comments f	for your persor	al reference.					
	When you have complete	ed the greading	g, please chang	ge the "Marking	g workflow	state" to "Marl	king completed"	
	Insertion of the	1	2	3	4	5		
	endoscope (incl.	Unable to	2 points	Needs	4 points	Perfect		
	passage of vocal	insert		several		insertion of		
	cords)	endoscope		attempts to		endoscope at		
		1 points		insert		first attempt		
				endoscope		5 points		
				3 points			h.	
	Presentation of region	1	2	3	4	5		
	4 L (including aorta &	Not	2 points	Visualized	4 points	Perfectly		
	a.pulm)	visualized		with		visualized		
		1 points		difficulty or		with		
				badly		apparent		
				presented		ease		
				3 points		5 points		
	Presentation of region	1	2	3	4	5		

- 5. Scroll down to "Marking workflow state" and
  - a. Change the 'Marking workflow state' to 'Released'
  - b. Add any comment or reflection that you want save for your personal use
  - c. Click 'Save changes'

Marking workflow state 👔	Released v
Allocated Marker 😨	Pascal Kurosinski (ERS) 🔹
Current grade in gradebook	4.00
Feedback comments	
	really an expert
Notify students	No 🔻
	Save changes Cancel
Back	

6. Click 'Continue', scroll down and click 'Back to the course homepage'.



7. Participants are recommended to enter the required data during their training onsite. Should it not be possible, please use the below paper form for your reference and transfer the data to the online platform as soon as possible.

	Performed by supervisor	Performed with guidance	Ρ	erformed k	by trainee with no or minim	nal guidar	ice
Insertion of the endoscope (incl. passage of vocal cords)			1 Unable to insert endoscope	2	3 Needs several attempts to insert endoscope	4	5 Perfect insertion of endoscope at first attempt
Presentation of:							
region <b>4 L</b>			1	2	3	4	5
region 7			1	2	3	4	5
region <b>10/11L</b>			1	2	3	4	5
region <b>10/11R</b>			1	2	3	4	5
Azygos vein			1	2	3	4	5
region 4 R		п	1	2	3	4	5
		_	Not visualized		Visualized with difficulty or badly presented		Perfectly visualized with apparent ease
Orientation overall			1	2	3	4	5
			Totally unacceptable investigation		Acceptable but unsystematic investigation		Systematic and thorough investigation demonstrating perfect knowledge of the anatomy
Biopsy sampling: Positioning of transducer			1	2	3	4	5
			Major flaws in positioning		Some problems with positioning		Perfect positioning of transducer every time
Biopsy sampling: Use of sheath			ī	2	3	4	5
	ja monor da	A desenses	Sheath is used incorrectly with great risk of scope damage		Insecure localization of the sheath during the procedure		Perfect use of sheath
Biopsy sampling: Use of needle			1	2	3	4	5
			Targeted sites are missed and/or important structures are damaged		Insecure use of needle with a few errors		Perfect use of needle in every procedure
Biopsy sampling overall			1	2	3	4	5
			Biopsies performed with major risk to the patient/equipment		Possibility of inadequate biopsies due to insufficient technique		Perfect sampling with excellent technique



### SIMULATION BASED TRAINING

After the introduction to the simulated EBUS procedure, you will have the opportunity to practice the EBUS procedure on the simulator. During the self-training session, you will follow the programme that is provided, completing the tasks and cases on the EBUS module. A training assistant will be available for support and guidance.

#### SIMULATED EBUS ASSESSMENT

The test consists of 2 EBUS procedures on simulator patient cases. The participant will have to perform a complete procedure including introduction of the scope, identification of the six anatomical landmarks in the correct order, checking for enlarged lymph nodes and obtaining two biopsies from one of the stations.

The targeted goal is to perform the procedure consistently and in a secure fashion in less than 10 minutes. You will have a maximum of 2 opportunities to pass the test onsite. If the assessment is failed you will need to resit part 2 of the training programme.