

#### ERS course on Pulmonary rehabilitation 09-11 October 2023 Horn, Netherlands

# Monday, 09 October 2023

	Registration and Welcome			
08:00–08:30	Registration			
08:30–08:45	Welcome to CIRO and introduction of the ERS Faculty - M. Spruit			
	Session 1 - Introduction of pulmonary rehabilitation			
	Chairs: Sally J. Singh			
08:45–09:10	The burden of multifaceted chronic lung diseases: rationale for pulmonary rehabilitation - F. Franssen			
09:10-09:35	Pulmonary rehabilitation: conceptual framework and definition - T. Troosters			
09:35-10:00	Organisational aspects of pulmonary rehabilitation - M. Spruit			
10:00-10:20	Discussion and Q&A			
10:20–10:45	Coffee break			
	Session 2 - Physical inactivity and problematic ADL			
	Chairs: Joana Cruz			
10:45-11:10	Physical inactivity and problematic activities of daily life in chronic lung diseases - F. De Oliveira Pitta			
11:10-11:35	Extra-pulmonary consequences of physical inactivity - M. Maddocks			
11:35-12:00	How to assess physical inactivity and problematic activities of daily life in chronic lung diseases? - E. Gimeno-Santos			
12:00-12:20	Discussion			
12:00-13:00	Lunch			



# Monday, 09 October 2023

	Session 3 - Exercise testing and excercise limitation
	Chairs: Ioannis Vogiatzis
13:00-13:25	Exercise field testing - S. Singh
13:25–13:50	Physiology of exercise limitation: cardiopulmonary limitations - C. Burtin
13:50–14:15	Physiology of exercise limitations: lower-limb and respiratory muscle dysfunction - D. Langer
14:15-14:35	Discussion
14:35-15:00	Coffee break
	Session 4 - Non-physiological impairments
	Chairs: Inga Jarosch
15:00-15:25	Symptoms of anxiety and depression - D. Janssen
15:25-15:50	Poor collaborative self-management - R. Evans
15:50–16:15	Health illiteracy - D. Janssen
16:15–16:35	Discussion



# Tuesday, 10 October 2023

	Session 5 - Exercise training
	Chairs: Thierry Troosters
08:30-08:55	Endurance training - A. Vaes
08:55–09:20	Interval training - I. Vogiatzis
09:20-09:45	Resistance training and NMES - M. Maddocks
09:45-10:00	Discussion
10:00-10:20	Coffee break
	Session 6 - Adjuncts to excercise training
	Chairs: Martijn A. Spruit
10:20-10:45	Pharmacotherapy - F. Franssen
10:45-11:10	Oxygen - R. Evans
11:10-11:35	Nutritional and hormonal supplements - A. Schols
11:35-12:00	Non-invasive ventilation - I. Jarosch
12:00-12:25	Inspiratory muscle training - D. Langer
12:25-12:35	Discussion
12:35–13:15	Lunch
	Session 7 - Behaviour change and collaborative self-management
	Chairs: Frits M.E. Franssen
13:15–13:40	Understanding and supporting behaviour change - L. Brighton
13:40-14:05	Enhancing self-efficacy - S. Singh
14:05-14:30	Collaborative self-management - R. Evans
14:30-14:55	Advance care planning - D. Janssen
14:55–15:10	Discussion
15:10-15:40	Coffee break



# Tuesday, 10 October 2023

#### Session 8 - Lung attacks

	Chairs: Lisa Jane Brighton
15:40–16:05	What is an exacerbation? - F. Franssen
16:05–16:30	Early mobilization during severe exacerbations - C. Burtin
16:30–16:55	Post-exacerbation pulmonary rehabilitation - M. Maddocks
16:55-17:00	Discussion
	Session 9 - Widening the application of pulmonary rehabilitation
	Chairs: Thierry Troosters
17:00-17:20	Pulmonary rehabilitation in post-COVID, asthma, ILD, lung cancer,
	bronchiectasis, etc R. Evans
17:20–17:45	Other formats of exercise training: from home alone to urban training -
	E. Gimeno-Santos
17:45-18:00	Discussion



#### Wednesday, 11 October 2023

#### Session 10 - Workshops

Participants can attend 7 of 10 workshops. Maximum 8 participants per workshop. All workshops will be repeated 7 times.

08:00-08:30	Introduction of	workshop leaders and workshop instructions - M. Spruit
08:30-09:00	Round 1	WS1 1-RM assessment – A.W. Vaes
09:05-09:35	Round 2	WS2 MicroFET strength test – T. Troosters
09:40-10:10	Round 3	WS3 Body composition assessment (BIA/DEXA) – F. Franssen WS4 Physical activity assessment – F. Pitta, J. Cruz
10:10-10:45	Coffee break	WS5 6-minute walk test – J. Delbressine, E. Gimeno-Santos WS6 ISWT / ESWT – S.J. Singh, R. Evans
10:45-11:15	Round 4	WS7 Cardiopulmonary exercise test - I. Vogiatzis WS8 Health status questionnaires – D.J.A Janssen
11:20-11:50	Round 5	WS9 Neuromuscular electrical stimulation - M.J.H. Sillen, M.
11:55-12:25	Round 6	Maddocks
12:30-13:00	Round 7	WS10 Problematic activities of daily life - N. Nakken, M. Cuijpers
13:00-13:45	Lunch	
	Session 11 - Ca	ase report workshops
13:45-14:00	Session 11 - Ca Introduction ca	
13:45–14:00 14:00–15:00	Introduction ca	
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14:00–15:00 14:00–15:00 14:00–15:00 14:00–15:00 14:00–15:00	Introduction ca Case report: Gr Case report: Gr Case report: Gr Case report: Gr Case report: Gr <i>Break</i>	se report roup 1 - R. Evans, I. Jarosch roup 2 - C. Burtin, J. Cruz roup 3 - E. Gimeno-Santos, S. Singh roup 4 - I. Vogiatzis , M. Maddocks