

ERS course on Pulmonary Rehabilitation

16-18 October 2023 Horn, Netherlands

Monday, 16 October 2023

	Registration and Welcome			
08:00-08:30	Registration			
08:30-08:45	Welcome to CIRO and introduction of the ERS School Faculty - M. Spruit (Horn, Netherlands)			
	SESSION I - INTRODUCTION OF PULMONARY REHABILITATION			
	Chair: S.J. Singh (Leicester, United Kingdom)			
08:45-09:10	The burden of multifaceted chronic lung diseases: rationale for pulmonary rehabilitation - F. Franssen (Horn, Netherlands)			
09:10-09:35	Pulmonary rehabilitation: conceptual framework and definition - T. Troosters (Leuven, Belgium)			
09:35–10:00	Organisational aspects of pulmonary rehabilitation - M. Spruit (Horn, Netherlands)			
10:00-10:20	Discussion - F. Franssen (Horn, Netherlands)			
10:20-10:45	Coffee break			
	SESSION II - PHYSICAL INACTIVITY AND PROBLEMATIC ADL			
	Chair: J. Cruz (Leiria, Portugal)			
10:45–11:10	Physical inactivity and problematic activities of daily life in chronic lung diseases - F. De Oliveira Pitta (Londrina, Brazil)			
11:10–11:35	Extra-pulmonary consequences of physical inactivity - M. Maddocks (London, United Kingdom)			
11:35–12:00	How to assess physical inactivity and problematic activities of daily life in chronic lung diseases? - E. Gimeno Santos (Barcelona, Spain)			
12:00-12:20	Discussion - F. De Oliveira Pitta (Londrina, Brazil)			
12:00-13:00	Lunch			



SESSION III - EXERCISE TESTING AND EXERCISE LIMITATIONS

	Chair: I. Vogiatzis (Newcastle upon Tyne, United Kingdom)		
13:00–13:25	Exercise field testing - S. Singh (Leicester (Leicestershire), United Kingdom)		
13:25–13:50	Physiology of exercise limitation: cardiopulmonary limitations - C. Burtin (Diepenbeek, Belgium)		
13:50–14:15	Physiology of exercise limitations: lower-limb and respiratory muscle dysfunction - D. Langer (Leuven, Belgium)		
14:15–14:35	Discussion - S. Singh (Leicester (Leicestershire), United Kingdom)		
14:35–15:00	Coffee break		
	SESSION IV - NON-PHYSIOLOGICAL IMPAIRMENTS		
	SESSION IV - NON-PHYSIOLOGICAL IMPAIRMENTS Chair: I. Jarosch (Schönau am Königssee, Germany)		
15:00–15:25			
15:00–15:25 15:25–15:50	Chair: I. Jarosch (Schönau am Königssee, Germany)		
	Chair: I. Jarosch (Schönau am Königssee, Germany) Symptoms of anxiety and depression - D. Janssen (Horn, Netherlands) Poor collaborative self-management - R. Evans (Leicester		
15:25–15:50	Chair: I. Jarosch (Schönau am Königssee, Germany) Symptoms of anxiety and depression - D. Janssen (Horn, Netherlands) Poor collaborative self-management - R. Evans (Leicester (Leicestershire), United Kingdom)		



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	SESSION V - EXERCISE TRAINING			
	Chair: T. Troosters (Leuven, Belgium)			
08:30-08:55	Endurance training - A. Vaes (Horn, Netherlands)			
08:55-09:20	Interval training - I. Vogiatzis (Newcastle upon Tyne, United Kingdom)			
09:20-09:45	Resistance training and NMES - M. Maddocks (London, United Kingdom)			
09:45-10:00	Discussion - A. Vaes (Horn, Netherlands)			
10:00-10:20	Coffee break			
	SESSION VI - ADJUNCTS TO EXERCISE TRAINING			
	Chair: M. Spruit (Horn, Netherlands)			
10:20-10:45	Pharmacotherapy - F. Franssen (Horn, Netherlands)			
10:45-11:10	Oxygen - R. Evans (Leicester (Leicestershire), United Kingdom)			
11:10–11:35	Nutritional and hormonal supplements - A. Schols (Maastricht, Netherlands)			
11:35-12:00	Non-invasive ventilation - I. Jarosch (Schönau am Königssee, Germany)			
12:00-12:25	Inspiratory muscle training - D. Langer (Leuven, Belgium)			
12:25-12:35	Discussion - F. Franssen (Horn, Netherlands)			
12:35–13:15	Lunch			
	SESSION VII - BEHAVIOUR CHANGE AND COLLABORATIVE SELF-MANAGEMENT			
	Chair: F. Franssen (Horn, Netherlands)			
13:15–13:40	Understanding and supporting behaviour change - L. Brighton (London, United Kingdom)			
13:40–14:05	Enhancing self-efficacy - S. Singh (Leicester (Leicestershire), United Kingdom)			
14:05–14:30	Collaborative self-management - R. Evans (Leicester (Leicestershire), United Kingdom)			
14:30-14:55	Advance care planning - D. Janssen (Horn, Netherlands)			
14:55-15:10	Discussion - L. Brighton (London, United Kingdom)			
15:10–15:40	Coffee break			
	SESSION VIII - LUNG ATTACKS			
	Chair: L. Brighton (London, United Kingdom)			
15:40–16:05	What is an exacerbation? - F. Franssen (Horn, Netherlands)			



16:05–16:30	Early mobilization during severe exacerbations - C. Burtin (Diepenbeek, Belgium)	
16:30–16:55	Post-exacerbation pulmonary rehabilitation - M. Maddocks (London, United Kingdom)	
16:55–17:00	Discussion - F. Franssen (Horn, Netherlands)	
	SESSION IX - WIDENING THE APPLICATION OF PULMONARY REHABILITATION	
	Chair: T. Troosters (Leuven, Belgium)	
17:00–17:20	Pulmonary rehabilitation in post-COVID, asthma, ILD, lung cancer, bronchiectasis, etc R. Evans (Leicester (Leicestershire), United Kingdom)	
17:20–17:45	Other formats of exercise training: from home alone to urban training - E. Gimeno Santos (Barcelona, Spain)	
17:45–18:00	Discussion - R. Evans (Leicester (Leicestershire), United Kingdom), E. Gimeno Santos (Barcelona, Spain)	



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	SESSION X -	HANDS ON WORKSHOPS	
08:00-08:30	Introduction of workshop leaders and workshop instructions - M. Spruit (Horn, Netherlands)		
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) –	
10:10–10:45	Coffee break	F.M.E. Franssen WS4 Physical activity assessment – F. Pitta, J. Cruz WS5 6-minute walk test – J. Delbressine, E. Gimeno-	
10:45-11:15	Round 4	Santos WS6 ISWT / ESWT – S.J. Singh, R. Evans	
11:20-11:50	Round 5	WS7 Cardiopulmonary exercise test - I. Vogiatzis	
11:55-12:25	Round 6	WS8 Health status questionnaires – D.J.A Janssen	
12:30-13:00	Round 7	WS9 Neuromuscular electrical stimulation - M.J.H. Sillen,	
13:00–13:45	Lunch	M. Maddocks WS10 Problematic activities of daily life - J. Wiechert. N. Nakken	
13:45-14:00	Introduction case report		
14:00–15:00	Case report: Group 1 - R. Evans (Leicester (Leicestershire), United Kingdom)		
14:00-15:00	Case report: Group 2 - C. Burtin (Diepenbeek, Belgium)		
14:00-15:00	Case report: Group 3 - E. Gimeno Santos (Barcelona, Spain)		
14:00–15:00	Case report: Group 4 - I. Vogiatzis (Newcastle upon Tyne, United Kingdom)		
14:00-15:00	Case report: Group 5 - D. Janssen (Horn, Netherlands)		
15:00-16:45	Discussion of case report - F. Franssen (Horn, Netherlands)		
16:45-17:00	Summary - M. Spruit (Horn, Netherlands)		