



Clinical exercise testing: Advanced

24-25 October 2024

Rome, Italy

Thursday, 24 October 2024

08:30–09:00 Course registration

Session 1 - What is measured? A refresher on physiology

Chair: P. Laveneziana

09:00–09:10 Introduction – P. Laveneziana, P. Palange

09:10–09:30 CPET overview: clinical usefulness and limitations - P. Palange

09:30–09:40 Q&A

09:40–10:10 Metabolic responses to exercise - S. Ward

10:10–10:20 Q&A

10:20–10:40 *Coffee break*

10:40–11:10 Cardiovascular responses to exercise - J. Neder

11:10–11:20 Q&A

11:20–11:50 Respiratory and sensory responses to exercise - M. Schaeffer

11:50–12:00 Q&A

12:00–13:15 *Lunch*



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Session 2 – Skills workshop: How to measure? Inside the test

Participants will be divided into 4 groups and assigned to a specific workstation.

13:15–13:30 Introduction to workshops and groups

13:30–15:00 Equipment, test design and protocols

Group 1

- S. Ward,
P. Onorati,

Group 2

- W. Stringer,
M. Schaeffer.
J. Shakespeare

Group 3

- P. Laveneziana,
P. Palange

Group 4

- J. Neder,
J. Hull, A. Boutou

15:00–15:30 *Coffee break*

15:30–17:30 Test performance by a cyclist and interpretation

The key variables and their meaning

Reference values and data presentation

Group 1

- S. Ward,
P. Onorati,

Group 2

- W. Stringer,
M. Schaeffer,
J. Shakespeare

Group 3

- P. Laveneziana,
P. Palange

Group 4

- J. Neder,
J. Hull, A. Boutou

17:30–18:30 Welcome reception



Friday, 25 October 2024

Session 3 - What happens in athletes and disease? Exercise pathophysiology

Chairs: P. Laveneziana

08:30–09:00	CPET in athletes - M. Schaeffer
09:00–09:10	Q&A
09:10–09:40	CPET for assessment of dysfunctional breathing, bronchoconstriction and inducible laryngeal obstruction - A. Boutou, J. Shakespeare
09:40–09:50	Q&A
09:50–10:20	CPET in pulmonary vascular disease - J. Neder
10:20–10:30	Q&A
10:30–10:50	<i>Coffee break</i>
10:50–11:20	CPET for prognosis and pre-operative assessment - P. Onorati
11:20–11:30	Q&A
11:30–12:00	Understanding dyspnoea of uncertain origin - the value of CPET – J. Hull
12:00–12:10	Q&A
12:10–13:30	<i>Lunch</i>

Session 4 - Bringing CPET to practice: A case-based discussion

Chairs: P. Palange, P. Laveneziana

13:30–15:00	Typical cases of respiratory and cardiocirculatory limitation to exercise - P. Palange, P. Laveneziana, W. Stringer, J. Neder, S. Ward
15:00–15:30	<i>Coffee break</i>



Friday, 25 October 2024

15:30–17:30	Advanced interpretation: Cases in specific clinical scenarios (from faculty and participants) Unexplained dyspnoea - P. Laveneziana Pre-operative assessment - P. Onorati Dysfunctional breathing - A. Boutou Combined COPD-heart failure - J. Neder Pulmonary hypertension - J. Neder
17:30	Closing remarks