

# ERS online course

## Clinical exercise testing: Core principles

---

**12 May 2021**

---

**Chairs: M. Schaeffer, I. Vivodtzev**

13:00–13:30	<b>The physiological responses to CPET – S. Ward</b>
13:30–13:45	Q&A
13:45–13:55	<i>Break</i>
13:55–14:25	<b>The physiological limitations to CPET – P. Palange</b>
14:25–14:40	Q&A
14:40–14:50	<i>Break</i>
14:50–15:50	<b>How to run an incremental exercise testing and how to interpret its key variables – P. Palange &amp; P. Laveneziana</b>
15:50–16:00	<i>Break</i>
16:00–16:05	<b>Tutorials – Introduction –P. Palange, P. Laveneziana</b>
16:05–16:10	<i>Break into small groups</i>
16:10–16:40	<b>Tutorials – General CPET Q&amp;A – S. Ward, P. Palange, P. Laveneziana, P. Agostoni, P. Onorati, A. Neder</b>
16:40–16:50	<i>Break</i>
16:50–17:50	<b>Tutorials – Clinical cases from faculty and participants – S. Ward, P. Palange, P. Laveneziana, P. Agostoni, P. Onorati, A. Neder</b>
17:50–18:00	<b>Concluding remarks –P. Palange, P. Laveneziana</b>



### **Pre-course learning modules (available from 19 April)**

- Introduction: why CPET? – P. Laveneziana
- Exercise physiology: the metabolic response to incremental exercise – S. Ward
- Exercise physiology: the ventilatory response to incremental exercise – P. Palange
- Exercise physiology: the cardiovascular response to incremental exercise – P. Agostoni
- Equipment and methodology – R. Casaburi
- Exercise physiology: the metabolic limitation to exercise – P. Onorati
- Exercise physiology: the ventilatory limitation to exercise – P. Laveneziana
- Exercise physiology: the pulmonary gas exchange and pulmonary vascular limitation to exercise – P. Laveneziana and P. Palange
- Exercise physiology: the cardiovascular limitation exercise – P. Agostoni
- Field testing and methods for assessing physical activity – S. Singh