

Cardiopulmonary Exercise Testing in Contemporary Cardiology: Physiological Insights and Novel Applications

Aims: To focus on CPET use and its influence on the most modern advancements in cardiology.

Description: Over the years key gas exchange variables have shown a remarkable role in the interpretative translation of physiology to clinical decision, making CPET a standard when approaching all forms of exercise intolerance with a predominant evidence for heart failure and hypertrophic cardiomyopathy. As impaired cardiac output and peripheral O₂ diffusion are the main determinants of the abnormal functional response in cardiac patients, invasive (i) CPET has gained renewed popularity. Additional impactful advancements come from the recent progressive application of CPET combined with echocardiography, or CPET imaging, which shows less accuracy in the left and right hemodynamic assessment compared to iCPET but adds peculiar information on atrial and biventricular cardiac valve functional perturbations during exercise. The implementation of wearable systems and AI support to estimate peak VO₂ and gas exchange variables are part of the novel applications.



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5th October, 2026

5.00 pm Central European Time

11.00 am Eastern Standard Time

8.00 am Pacific Standard Time

This program has been approved for 1.5 contact hour Continuing Respiratory Care Education (CRCE) credit by the American Association for Respiratory Care.



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