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Continuous internal counterpulsation as a bridge to recovery in acute and chronic heart failure

Christos D Kontogiannis, Konstantinos Malliaras, Chris J Kapelios, Jay W Mason, John N Nanas

Abstract

Cardiac recovery from cardiogenic shock and end-stage chronic heart failure remains an often insurmountable therapeutic challenge. The counterpulsation technique exerts numerous beneficial effects on systemic hemodynamics and left ventricular mechanoenergetics, rendering it attractive for promoting myocardial recovery in both acute and chronic heart failure. Although a recent clinical trial has questioned the clinical effectiveness of short-term hemodynamic support with intra-aortic balloon pump (IABP, the main representative of the counterpulsation technique) in cardiogenic shock complicating myocardial infarction, the issue remains open to further investigation. Moreover, preliminary data suggest that long-term IABP support in patients with end-stage HF is safe and may mediate recovery of left- or/and right-sided cardiac function, facilitating long-term weaning from mechanical support or enabling the



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